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)			
8	F: V: T:	Item		
	Indemnities (Clause 9).			
	Clause 9.1.1 is deleted and substituted with:			
	Claims from other parties consequent upon death of bodily injury or illness of any person or physical loss or damage to any property, other than the works, arising out or due to the execution of the works or occupation of the site by the contractor or his sub contractors'.			
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.		
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 :-		
To be advised.		
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Penalty amount will be R2000 per calendar day to a maximum of 10% of contract value.		
Clause 42.2.8		
Intended dates of practical completion and the penalties per calendar day for the works in sections :		
N/A		
Clause 42.2.9		
The law applicable to this agreement shall be that of - Republic of South Africa.		
INSURANCES (Clause 42.3)		
Clause 42.3.1		
Contract works insurance to be effected by Contractor for the sum of: Contract Sum plus 10%		
With a deductible of : Not exceeding 5% of each and every claim.		
Clause 42.3.2		
Supplementary insurance is required : Yes		
SASRIA insurance required to be effected by the Contractor for the amount of: Contract Sum plus 20% (with a deductible to be determined by the Insurance company issuing the policy).		
Clause 42.3.3		
Public liability insurance to be effected by Contractor		
For the amount of: R 5million		
With a deductible of: Not exceeding 5% of each and every claim.		
DOCUMENTS (Clause 42.4)		
Clause 42.4.1		
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	Waiver of the contractor's lien is required :- YES				
	Clause 42.4.2				
	Number of construction document copies to be supplied to the Contractor free of charge :- 1				
	Clause 42.4.3				
	Bills of Quantities drawn up in accordance with :-				
	Standard System of Measuring Building Work - Seventh Edition including all amendments				
	Clause 42.4.4				
	Number of days for submission of priced documents : 5 working days from the Letter of Appointment.				
	Clause 42.4.5				
	JBCC Engineering General Conditions are to be included in the documents :- No				
	Clause 42.4.6				
	The contract value is to be adjusted using CPAP:- NO				
	SECTION B: PRELIMINARIES				
	DEFINITIONS AND INTERPRETATION (B1)				
	Definitions and Interpretation (B1)				
41	F: V: T:	Item			
	DOCUMENTS (B2)				
	Checking of documents (B2.1)				
	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.				
42	F: V: T:	Item			
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	Provisional Bills of Quantities (B2.2) YES			
	Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, etc., contained herein may be omitted or reduced at the Principal Agent's sole discretion and the Contractor shall not be entitled to claim for any loss by way of reduction or omission of any discount, or percentage relating to Prime Cost Amounts, Budgetary Allowances, Provisional Amounts, Provisional Quantities, etc., or loss of profit related thereto.			
43	F: V: T:	Item		
	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.			
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48	F: V: T:	Item		
	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)			
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59	F: V: T:	Item		
	Programme for the Works (B4.2)			
60	F: V: T:	Item		
	Progress meetings (B4.3)			
61	F: V: T:	Item		
	Technical meetings (B4.4)			
62	F: V: T:	Item		
	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: C7. Labour record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all subcontractors on the works each day.	Item		
100	F: V: T: C8. Plant record At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.	Item		
101	F:	Item		
102	F: V: T:	Item		
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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			
	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		
	C12. Mode of Procedure			
	Notwithstanding anything to the contrary contained herein the Principal Agent at all times reserves the right to direct the order in which the various parts of the Contract are to be executed. The Contractor shall give priority to any individual section or portion of the Works that, in the opinion of the Principal Agent, requires to be expedited.			
	Should it appear, in the Principal Agent's opinion, that work in any area is not being executed in accordance with the requirements of the Contract Programme, the Contractor shall provide additional manpower and resources and shall work additional overtime and do everything else required to bring the work back to programme to the satisfaction of the Principal Agent and to the Contractor's cost.			
105	F: V: T:	Item		
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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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111	SUB - TOTAL: FIXED ITEMS	Item		
112	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
113	SUB - TOTAL: TIME - RELATED ITEMS	Item		
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Total Brought Forward from Page No.		22		
		23		
		24		
Carried Forward to Summa Section 1	ry of Section No. 1		R	
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	1	
7	Provision of first aid boxes.	No	1	
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150	
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1	
	Provision for Personal Protective Equipment and Protective Clothing:			
10	Reflective vests.	No	20	
11	Hard hats.	No	20	
12	Protective foot wear.	No	20	
13	Ear Plugs.	No	10	
14	Dust Masks.	No	15	
	Costs of Medical Certificates and Medical Surveillance:			
15	Initial (baseline) medical examinations.	No	20	
	Carried to Collection Section 1 Bill No. 2			R
	Health and Safety			

16	Exit Examinations.	No	20		
	Noise Monitoring:				
17	Establishment of noise zones.	No	1		
18	Audiograms.	No	1		
	C16. Covid-19 Compliance Measures				
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.		Item		
	TEMPORARY ABLUTION FACILITIES				
	Provide temporary ablutions facilities (9No), operate and maintain for the duration of contract period (5 months) - Layout as per site development plan				
20	9No. temporary ablutions facilities, operate and maintain for the duration of the contract period (5months x 9No. ablution facilities)	Months	5		
21	Allow a sum of R5 000.00 for provision of water supply and stand pipe			SUM	
	Carried to Collection	ı		R	L
	Section 1 Bill No. 2 Health and Safety				

Section 1				
Bill No. 2				
Health and Safety				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	27			
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	29			
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Carried Forward to Summary of Section No. 1 Section 1		R		
Bill No. 2 Health and Safety				

Section 1 **SECTION SUMMARY - PRELIMINARIES** Page No **A**mount Preliminaries 26 Health and Safety 30 **Carried to Final Summary** R Section 1

Bill

No

Item No		Quantity	Rate	Amount
	SECTION 2			
	BILL No. 1			
	<u>DEMOLITIONS</u>			
	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>View site</u>			
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained			
	<u>Explosives</u>			
	No explosives whatsoever may be used for demolition purposes unless otherwise stated.			
	<u>General</u>			
	Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent.			
	Unless otherwise described all materials are to become the property of the contractor and are to be removed from the site.			
	Carried to Collection		R	
	Section 2 Bill No. 1 Demolitions		K	

Removal of asbestos material		
All preparatory work, alterations, etc., to existing asbestos cement roof sheeting, gutters, rainwater pipes, etc., is to be carried out strictly by an approved and certified specialist company and in accordance with statutory requirements (Occupational Health and Safety Act, 1993 - Asbestos Regulations 2001) and all necessary precautions must be taken when working with and disposing of asbestos cement products and the disposal of waste water resulting from cleaning operations, etc.		
The following shall apply in respect of asbestos removal		
The removal of asbestos shall be carries out by a certified entity, registered in accordance with the Occupational Health and Safety Act. 1993 and the Asbestos Regulations 2001		
Asbestos in all forms/building elements that is to be removed, shall be carried out in strict accordance with aforementioned regulation and a certificate issued by the entity as contemplated in the above, shall be provided per block for the removal thereof, where the term block shall in this context refer to any single, free standing building structure, regardless of size or purpose		
Corresponding disposal certificates shall be issued by the facility at which the asbestos is disposed off, with said facility to, prior to the disposal of any asbestos material provide satisfactory proof that the facility is duly registered and fully compliant in terms of the act, to receive the asbestos material		
Under no circumstances is the Contractor nor any of his duly authorised representatives to sell and/or give away asbestos material to any member/s of the school community, the community in general or the public at large. Should this be found to be occuring, the Contractor will be held responsible contractually and may further be prosecuted ciminally		
The cost for complying with the above, and all requirements of regulation as reflected above is to be priced for in terms for removal of asbestos material. No further claims in this regard will therefore be entertained		
Carried to Collection	R	
Section 2 Bill No. 1 Demolitions		

	DEMOLISHING AND REMOVING			
1	Taking out and remove 1 800mm high diamond mesh fence	12		
2	Take out and remove pedestrian gate size 1 800 x 2 000mm high No	1		
	Relocating of Grade R play area			
3	Allow a sum of R10 000.00 for relocating grade R play area		SUM	
	Carried to Collection		R	
	Section 2 Bill No. 1 Demolitions			

Section 2				
Bill No. 1				
Demolitions				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	32			
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Carried to Final Summary		R		
Section 2 Bill No. 1				
Demolitions				

Item No		Quantity	Rate	Amount
	SECTION NO. 3			
	BILL NO. 1			
	DEMOLITIONS AND ALTERATIONS			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A0 - Male & Female Ablutions Renovations			
	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			
	Note:			
	1. The tenderer is advised to thoroughly inspect the existing building as required in item 59 of section 1 - Preliminaries (Clause B3.11) to fully familiarise himself with the items described herein, and any associated works that will reasonably be required to execute the works described herein, before pricing this bill. The tenderers prices will be deemed to include for any such associated work.			
	2. Should any ambiguity or query arise in this regard, the tenderer shall clarify same with the architect before submitting his tender, failing which he will be deemed to have made adequate provision in his prices.			
	Carried to Collection Section 3 Bill No. 1 Alterations		R	
	Alterations			

All alteration work is to be performed in a safe, practical and workmanlike manner and at all times a competent general foreman is to be in charge and shall direct operations. The contractor shall acquaint himself and comply with all requirements and regulations of the Municipal/Local authority. Special care is to be exercised not to interfere unnecessarily with any electrical light, power, telephone or bell lines and fittings that may be encountered. Notice is to be given when disconnections or removal of wires, etc., are necessary and the contractor is to afford every facility to the electricians, etc. carrying out this work. "Making good" existing work where disturbed or damaged shall mean the provision of the necessary new material to match the existing and the necessary workmanship so that complete and perfect restoration is achieved to the satisfaction of the architect. "Making good" existing work where abutting walls, etc., are removed shall mean the provision of the necessary new material and workmanship in filling the gaps to match surrounding finishes so that a complete and perfect surface, is obtained to the satisfaction of the architect. The rates for "taking out", "taking down", of windows, doors, etc., from brickwork to remain are to include for making good all work disturbed to match surrounding finishes. The whole of the old materials arising from the alteration shall become the property of the Employer and shall be handed over to the Employer. Materials and articles described as "set aside for re-use" are to be carefully removed, stored and protected from damage before being re-fixed in new positions. These materials are measured as at present fixed in the existing buildings and the contractor must allow in his prices for replacing with new any of these materials that may be damaged when removing, etc., and for making up with new any loss in quantity arising from the removal or re-fixing. The remainder of the old materials such as concrete, etc., together with all rubbish, rubble and debris are to be carted away or removed, i.e. they are to be immediately removed from the site which is to be left clean and unencumbered. **Carried to Collection** R Section 3 Bill No. 1 Alterations

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	The contractor will not be permitted to use skips paid for by other direct contractors for the removal of old materials, but shall be required to provide his own.					
	Prices for the removal of doors and frames shall included for removal of fanlights, ironmongery, architraves and other associated trim.					
	Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.					
	REMOVAL OF EXISTING WORK					
	Breaking up and removing unreinforced concrete					
1	85mm Thick concrete paving	m2	39			
	Breaking down and removing brickwork etc					
2	Half brick wall	m2	36			
	Taking out and removing doors, windows, etc from brickwork to be demolished					
3	Timber single door not exceeding 2,5m2	No	16			
	Taking out and removing doors, windows, etc including thresholds, sills, etc (building up openings elsewhere)					
4	Gate door size 813 x 2 032mm high from brick walls	No	4			
	Taking out/off and removing glass and mirrors					
5	Glass from steel windows, including cleaning out rebates and preparing for new glass	m2	3			
	Taking down and removing roofs, floors, panelling, ceilings, partitions, etc					
6	Roof sheeting from timber trusses	m2	70			
7	Gypsum plasterboard ceilings, including timber brandering, cornices, etc	m2	63			
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	Section 3			R		+
	Bill No. 1 Alterations					

	Taking out and removing sundry joinery work, fittings, etc					
8	Fascia board	m	42			
	Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc					
9	30mm cement screed from floors	m2	63			
10	Internal plaster from walls	m2	30			
	Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes					
11	Wall tiling from plastered walls	m2	2			
	Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)					
12	Gutters and down pipes including brackets	m	77			
13	Urinal from walls	No	5			
14	Wash hand basin from walls	No	7			
15	Vitreous china WC pan with cistern	No	10			
	REPAIR AND SERVICING OF EXISTING					
	Repair and servicing of existing doors					
16	Inspect and service steel door frames 813 x 2032 mm high including replacing striking plates and leave in good working order.	No	16			
	Carried to Collection Section 3 Bill No. 1 Alterations			R		
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	Servicing of existing steel windows including thoroughly cleaning down of all dirt, scale and general contamination from all surfaces, pulleys, handles ,rods, openners, catches, etc, and servicing and lubricating all moving parts, carefully removing all paint, from and polishing all brassware and replacing of damaged or missing screws, nuts, etc (replacement of ironmongery ,removal of glass, etc else where measured)				
17	Window size 500 x 600mm high	No	16		
	Repair and servicing of existing sanitary fittings				
	Repair leaking water supply pipe				
18	Investigate as necessary to identify location and extent of leaks in plastered walls finish	No	5		
19	Hack into existing plastered wall finish to allow for repair including temporarily blanking off branch and reinstating ,all to match existing (pipe repair elsewhere measured)	No	5		
20	Cut into existing copper pipe not exceeding 30mm diameter to remove damaged portion and reinstate,including testing (cutting into plaster and making good elsewhere measured)	No	5		
	Repair to waste and vent pipes				
21	Investigate as necessary to identify location and extent of leaks in plastered walls finish	No	6		
22	Hack into existing plastered wall finish to allow for repair including temporarily blanking off branch and reinstating ,all to match existing (pipe repair elsewhere measured)	No	4		
23	Cut into existing copper pipe not exceeding 30mm diameter to remove damaged portion and reinstate,including testing (cutting into plaster and making good elsewhere measured)	No	4		
	CUTTING THROUGH FLOORS AND CEILINGS				
	Sundries				
24	Cutting toothings and bonding new brickwork to existing	m	3		
	FACE BRICKWORK				
	Openite data Optionalism				
	Section 3 Bill No. 1 Alterations			R	<u> </u>

	Firelight Travertine FBX or other approved pointed with recessed with recessed horizontal and vertical joints.				
25	Extra over brickwork for face brickwork in patches	m2	15		
	CLEANING OF EXISTING SURFACES				
26	Clean existing facebrick walls surfaces with a high pressure water spray to remove all debris and oil ,inspect recessed joints and fill with mortar where necessary to achieve flush joints.	m2	111		
	MAKING GOOD OF FINISHES ETC				
	Making good brickwork				
27	Making good brickwork at end of one brick wall	m	4		
	Making good internal cement plaster				
28	Walls in patches	m2	30		
29	Floors where half brick walls removed	m	2		
30	Walls where half brick walls removed	m	2		
	Openidad to Option the			5	+
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	Bill No. 1 Alterations				

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Bill No. 1				
Alterations				
COLLECTION				
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Section 3 Bill No. 1				
Alterations				

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 - Male & Female Ablutions Renovations			
	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 Section 3 Bill No. 2 Earthworks (Provisional)		R	

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 splitiing 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 0,03m ³ in volume.		
EARTH FILLING, ETC.		
Carried to Collection	R	\vdash
Section 3		⊨
Bill No. 2 Earthworks (Provisional)		

	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.				
1	Under floors, etc.	m3	3		
	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.				
2	Under floors, etc.	m3	2		
	Coarse river sand filling supplied by the contractor:				
3	Under floors etc.	m3	1		
	Compaction of surfaces:				
4	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO				
	density.	m2	8		
	Prescribed density tests on filling:				
5	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	2		
	SOIL POISONING				
6	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years: Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	8		
	Carried to Collection			R	
	Section 3 Bill No. 2 Earthworks (Provisional)				

Section 3				
Bill No. 2				
Earthworks (Provisional)				
COLLECTION				
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Bill No. 2 Earthworks (Provisional)				
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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 - Male & Female Ablutions Renovations			
	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 Section 3 Bill No. 3 Concrete, Formwork and Reinforcement		R	

Formwork:					
Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before 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.					
UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
25MPa/20mm concrete:					
Concrete cast in panels.	m3	4			
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES					
30MPa/20mm concrete:					
Concrete raft slab on waterproofing.	m3	6			
TEST BLOCKS					
Test blocks:					
Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	2			
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Carried to Collection			R		
Section 3 Bill No. 3 Concrete, Formwork and Reinforcement					
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	FINIOUNA TOR OURFACE OF CONORETE	1		1	
	FINISHING TOP SURFACE OF CONCRETE				
	Finishing top surfaces of concrete smooth with a wood float:				
4	Surface beds, suspended slabs, ground slabs, etc.	2 86			
	Fabric reinforcement:				
5	REF. 617 fabric reinforcement in concrete surface beds, raft slabs etc.	2 44			
	Carried to Collection		R		
	Section 3 Bill No. 3 Concrete, Formwork and Reinforcement				
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Section 3				
Bill No. 3				
Concrete, Formwork and Reinforcement				
COLLECTION				
	Page No		Amount	
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Section 3 Bill No. 3				
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 - Male & Female Ablutions Renovations			
	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 3 Bill No. 4 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				
	Pointing				
	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"				
	BRICKWORK IN WALLS				
	Brickwork consisting of solid bricks with 10.5 MPa minimum nominal compressive strength in Class I mortar with Coprox masonry waterproofing or equal approved waterproof cement additive. Add 2.5kg Coprox waterproof cement additive for every 50kg of cement used in mortar mix (Cement to be 42.5N all-purpose cement):				
I	Half brickwalls	m2	36		
	BRICKWORK AND BLOCKWORK SUNDRIES				
	Galvanized brickwork reinforcement				
2	115mm Wide reinforcement built in horizontally	m	163		
3	230mm Wide reinforcement built in horizontally.	m	33		
	Carried to Collection			R	
	Section 3 Bill No. 4 Masonry				

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	FACE BRICK				
	"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):				
4	One brickwall pointed on both sides.	m2	11		
	Face brick copings, lintels, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces:				
5	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	7		
	Section 3 Bill No. 4 Masonry			R	

Section 3				
Bill No. 4				
Masonry				
COLLECTION				
Total Brought Forward from Page No.	Page No 51 52 53		Amount	
Carried Forward to Summary of Section No. 3 Section 3 Bill No. 4 Masonry		R		

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 - Male & Female Ablutions Renovations			
	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.			
	Section 3 Bill No. 5 Waterproofing		R	

	Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done. Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet. DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':				
1	Under surface beds, bases, etc.	m2	8		
	One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:				
2	Below walls, sills, etc.	m2	1		1
	Carried to Collection			R	1
	Section 3 Bill No. 5 Waterproofing				

Section 3				
Bill No. 5				
Waterproofing				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 55 56		Amount	
Carried Forward to Summary of Section No. 3 Section 3 Bill No. 5 Waterproofing		R		-

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 - Male & Female Ablutions Renovations			
	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			
	Carried to Collection Section 3 Bill No. 6 Roof Coverings Etc.		R	

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Quality Assurance				
The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System				
<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				
Carried to Collection		R		
Section 3				\vdash
Bill No. 6 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 3 Bill No. 6 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	70		
	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	17		
	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	70		
	Carried to Collection	n		R	
	Section 3 Bill No. 6				
	Roof Coverings Etc.				

Section 3]
Bill No. 6				
Roof Coverings Etc.				
COLLECTION				
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Section 3 Bill No. 6				F
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 - Male & Female Ablutions Renovations			
	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.			
	CARPENTRY			
	Sawn softwood:			
1	50 x 76mm Purlins.	90		
2	50 x 76mm Bracing.	110		
3	38 x 152mm Rafters.	18		
	EAVES, VERGES, ETC			
	Carried to Collection		R	
	Section 3 Bill No. 7 Carpentry and Joinery			
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	"Everite Nutec" or equal approved fibre cement					
4	12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	32			
5	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	10			
	DOORS ETC					
	SANS Approved meranti:					
6	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 (D2).	No	4			
7	44mm Framed, ledged, and battened single door with flush ply panel internally size 950 x 2032mm high comprising 44 x 110mm top rail and stiles, 44 x 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D2).	No	2			
8	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	10			
	Carried to Collection			R		
	Section 3					\vdash
	Bill No. 7					
	Carpentry and Joinery					

Section 3				
Bill No. 7				
Carpentry and Joinery				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 63 64		Amount	
Carried Forward to Summary of Section No. 3 Section 3 Bill No. 7 Carpentry and Joinery		R		

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL NO. 8			
	CEILINGS, PARTITIONS AND ACCESS FLOORING			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A0 - Male & Female Ablutions Renovations			
	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>Descriptions</u>			
	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 are measured elsewhere			
	INSULATION, ETC			
	Carried to Collection		R	
	Section 3 Bill No. 8 Ceilings			

1	Fibreglass insulation				
1	100mm Non-combustible lightweight fibreglass insulation blanket closely fitted between tie beams and laid loose on top of brandering, etc, all as per manufacturers instructions	m2	63		
	NAILED UP CEILINGS				
	6.4mm Gypsum Plasterboard ceilings finished smooth with gypsum skim plaster				
2	Horizontal ceiling formed of 6.4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips over joints, 38 x 50mm sawn softwood brandering at 400mm centres in one direction and around edges where required for fixing cornices, brandering spiked to roof timber, and finished with gypsum skim plaster trowelled to a smooth polished surface to the thickness recommended by the	0			
	manufacturer	m2	63		
3	Extra over ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	2		
	Cornices				
4	76mm Gypsum coved trim cornice	m	109		
					-
	Section 3 Bill No. 8 Ceilings			R	=

Section 3				
Bill No. 8				
Ceilings				
COLLECTION				
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 9			
	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 - Male & Female Ablutions Renovations			
	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			
	Carried to Collection		R	
	Section 3 Bill No. 9 Ironmongery			

	LOCKS				
1	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	16		
2	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	12		
	<u>HANDLES</u>				
3	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	16		
	Sundries:				
4	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	16		
5	38mm Diameter black rubber door stop plugged and screwed to wall.	No	16		
	SIGN PLATES:				
	All sign plates are to be with engraved blue perspex all in accordance with the standard sign plates for Schools.				
6	Sign plate plugged and screwed to walls with chromium plated dome headed screws.	No	4		
	SUNDRIES				
	Halcast or equal approved"				
7	Thiefproof toilet roll holder plugged.				
'	1 00	No	12		
,	Grade 304 stainless steel ware:	No	12		
8		No No	12		
	Grade 304 stainless steel ware: 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				
	Grade 304 stainless steel ware: 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				
	Grade 304 stainless steel ware: 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			R	

9	32mm outside diameter x 1,6mm thick mounted around cistern back stainless 1,23m girth with two 90 degree formed end fitted with 80mm diameter x 5mm welded on and four times countersunk plugged and screwed to wall with stain	steel grab rail bends and each thick flange holed for and	3		
	Ca Section 3 Bill No. 9 Ironmongery	rried to Collection		R	

Section 3					ĺ
Bill No. 9					
Ironmongery					
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Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 10			
	<u>METALWORK</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 - Male & Female Ablutions Renovations			
	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			
	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:			
1	Security gate size 900 x 2 050mm high (G1).	No 4		
	Carried Forward to Summary of Section No. 3 Section 3 Bill No. 10 Metalwork		R	

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL No. 11			
	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 - Male & Female Ablutions Renovations			
	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. m2	63		
	<u>Skirtings</u>			
2	75mm High coved granolithic skirting.	109		
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	Bill No. 11 Plastering			

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL NO. 12			
	<u>TILING</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 - Male & Female Ablutions Renovations			
	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.			
	WALL TILING			
	200 x 200 x 10mm glazed wall tiles fixed with adhesive to plaster (plaster elsewhere) and flush pointed with tinted waterproof jointing compound			
1	On walls m2	2 4		
	Carried Forward to Summary of Section No. 3		R	
	Section 3 Bill No. 12			
	Tiling			

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL No. 13				
	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 - Male & Female Ablutions Renovations				
	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	32		
2	Extra over eaves gutter for stopped end.	No	4		
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	No	10		
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	45		
5	Extra over rainwater downpipe for bends.	No	10		
	SANITARY FITTINGS				
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	Section 3 Bill No. 13 Plumbing and Drainage (Provisional)			·	
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	Vaal or equal approved:]			
6	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	7		
7	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	10		
8	Wall urinal size 600 x 385 x 380mm with spreader and waste union (flush valve elsewhere)	No	5		
	WASTE UNIONS ETC				
	Outlets, traps, etc:				
9	40mm 342/50 CP bottle trap.	No	7		
10	40mm Code 316 chrome plated unslotted waste outlet.	No	7		
11	40mm Rubber "P" or "S" trap	No	7		
	TAPS, VALVES, ETC				
	Solid Cast brass taps, valves, etc:				
12	"Cobra KM2-200"or other approved 15mm chrome plated metered bib tap with non-hold open feature and flow controller.	No	7		
13	15mm Ball-o-stop valve.	No	22		
14	22mm Non Return valve.	No	22		
15	32mm Chromium plated exposed type urinal flush valve including flush pipe	No	5		
	Carried to Collection			R	
	Section 3 Bill No. 13 Plumbing and Drainage (Provisional)				<u> </u>

	SANITARY PLUMBING				
	PVC waste or vent pipes and fittings:				
16	50mm Waste pipe.	m	60		
17	110mm Pipe.	m	35		
18	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	45		
	Extra for:				
19	50mm Bend.	No	12		
20	50mm Access bend.	No	10		
21	50mm Access bend	No	8		
22	50mm Junction	No	6		
23	50mm Access junction	No	8		
24	110mm Bend	No	16		
25	100mm Access bend.	No	16		
26	110mm Socket	No	16		
27	110mm Junction	No	16		
28	110mm Reducing junction	No	16		
29	110mm Access junction	No	16		
30	110mm Two-way vent valve	No	16		
31	110mm Pan connector	No	12		
	Carried to Collection	n		R	
	Section 3 Bill No. 13 Blumbing and Drainage (Provisional)				
	Plumbing and Drainage (Provisional)				

	uPVC gulleys			
32	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.	6		
	Connection to existing water supply			
33	Allow for connection to existing sewer pipe line.	Item		
	<u>Testing</u>			
34	Testing sewer pipe system	Item		
	WATER SUPPLIES			
	Polycop pipes:			
	Pipes shall be class 10.			
	Fixing of pipes			
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level			
	Polycop pipes chased in walls:			
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.			
	Reducing fittings:			
	Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.			
	Carried to Collection		R	
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	Bill No. 13			
	Plumbing and Drainage (Provisional)			

	Class 10 Polycop pipes:					
35	15mm Pipe chased into brick walls.	m	25			
36	22mm Pipe chased into brick walls.	m	35			
	Extra over polycop pipes for compression fittings:					
37	15mm Fittings.	No	15			
38	22mm Fittings.	No	10			
	Class "O" copper pipes:					
39	15mm Pipes chased in brickwork	m	60			
40	22mm Pipes chased in brickwork	m	60			
41	28mm Pipes	m	30			
	Extra over class "O" copper pipes for capillary					
	fittings					
42	15mm Fittings	No	15			
43	22mm Fittings	No	15			
44	28mm Fittings	No	10			
	Copper flexible service pipes					
45	15mm Service pipe 340mm girth	No	2			
	Connection to existing water supply					
46	Allow for connection to existing water supply.		Item			
	<u>Testing</u>					
47	Testing water pipe system		Item			
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	Plumbing and Drainage (Provisional)					
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Section 3 Bill No. 13	Bill No. 13				
Plumbing and Drainage (Provisional)					

Item No		Quantity	Rate	Amount
	SECTION 3			
	BILL NO. 14			
	GLAZING			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A0 - Male & Female Ablutions Renovations			
	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.			
	GLAZING TO STEEL WITH PUTTY			
	4mm Obscure glass			
1	Panes exceeding 0,1m² but not ne 0.5m2 m2	5		
	Carried Forward to Summary of Section No. 3 Section 3		R	
	Bill No. 14 Glazing			

Item No			Quantity	Rate	Amount
	SECTION 3				
	BILL No. 15				
	PAINTWORK				
	Quantity Split:				
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
	A0 - Male & Female Ablutions Renovations				
	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				
	Trade Names				
	Where trade names are specified it will read "or equal approved"				
	PAINTWORK ETC TO NEW WORK				
	ON FLOATED PLASTER				
	Prepare, stop and apply one coat masonry primer and two coats acrylic PVA paint				
1	On internal plastered walls	m2	30		
	ON WOOD				
	Carried to Collection			R	
	Section 3 Bill No. 15 Paintwork				

	Stop, sand down and prepare wood surfaces and apply one coat wood primer, one undercoat and two coats eggshell enamel paint as per Plascon or equal approved:				
2	On doors	m2	53		
	ON FIBRE-CEMENT				
	Prepare and apply two coats pure acrylic roof paint on:				
3	On fascias and barge boards.	m2	18		
	Prepare and apply two coats ceiling white on:				
4	On ceiling boards	m2	63		
	ON METAL				
	Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint				
5	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	17		
	Undercoat and minimum 2 coat gloss enamel				
6	On gutters and down pipes	m	72		
	PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK				
	ON FLOATED PLASTER				
	Prepare, stop and apply one coat masonry primer and two coats acrylic PVA paint				
7	On internal plastered walls	m2	310		
	ON FIBRE-CEMENT				
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	Carried to Collection Section 3			R	\vdash
	Bill No. 15 Paintwork				

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	Prepare, stop and apply one coat alkali resistant primer and two full coats acrylic emulsion paint for exterior use				
8	On internal fibre-cement window cill including priming metal cover strips and screw heads with one coat zinc phosphate alkyd resin primer	m2	2		
	Prepare and apply two coats carbolenium on:				
9	On exposed timbers.	m2	32		
	ON METAL				
	Prepare, touch up factory primer and apply one coat duraphos, one coat universal undercoat and two coats gloss enamel paint				
10	On pressed steel door frames	m2	32		
11	On windows with burglar bars	m2	16		
	Carried to Collection Section 3	1		R	
	Bill No. 15 Paintwork				

Section 3				
Bill No. 15				
Paintwork				
COLLECTION				
Total Brought Forward from Page No.	Page No 83		Amount	
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	85			
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Carried Forward to Summary of Section No. 3 Section 3		R		_
Bill No. 15 Paintwork				

Section 3 **SECTION SUMMARY - REPAIR AND RENOVATIONS** Page Amount No Alterations 42 Earthworks (Provisional) 46 Concrete, Formwork and Reinforcement 50 Masonry 54 Waterproofing 57 Roof Coverings Etc. 62 Carpentry and Joinery 65 Ceilings 68 Ironmongery 72 Metalwork 73 Plastering 74 Tiling 75 Plumbing and Drainage (Provisional) 81 Glazing 82 Paintwork 86 **Carried to Final Summary** R Section 3

Bill

No

Item No		Quantity	Rate	Amount
	SECTION 4			
	BILL No. 1			
	EARTHWORKS (PROVISIONAL)			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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 Section 4 Bill No. 1		R	
	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 0,03m ³ in volume.					
EVCAVATION OTHER THAN BUILV					
EXCAVATION OTHER THAN BULK					
Excavation in earth not exceeding 2m deep:	0	20			
Trenches.	m3	39			
Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	20			
Carried to Collection			R		
Section 4 Bill No. 1 Earthworks (Provisional)					
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	Extra over trench and hole excavations in earth for excavation in:					
3	Soft rock.	m3	10			
4	Hard rock.	m3	4			
	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.	m3	34			
	Risk of collapse of excavations:					
6	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	50			
	Keeping excavations free of water:					
7	Keeping excavations free from mud and all water including subterranean sources.		Item			
	EARTH FILLING, ETC.					
	Earth filling obtained from the excavations and / or prescribed stock piles on site (minimum G7 tested material) compacted to 93% Mod. AASHTO density:					
8	Under floors, etc.	m3	7			
	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.	m3	7			
	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	7			
	Carried to Collection			R		
	Section 4 Bill No. 1 Earthworks (Provisional)					

	Coarse river sand filling supplied by the contractor:				
11	Under floors etc.	m3	2		
	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.	m2	43		
	Prescribed density tests on filling:				
13	Allow for compaction tests by an approved laboratory to determine density of filling material.	No	15		
	SOIL POISONING				
14	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years: Under floors, etc., including forming and poisoning				
1-	shallow furrows against foundation walls, etc., filling in furrows and ramming.	m2	43		
	Carried to Collection			R	
	Section 4 Bill No. 1 Earthworks (Provisional)				

Section 4				
Bill No. 1				
Earthworks (Provisional)				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 88 89 90 91		Amount	
Carried Forward to Summary of Section No. 4 Section 4 Bill No. 1 Earthworks (Provisional)		R		

Item No		Quantity	Rate	Amount
	SECTION 4			
	BILL No. 2			
	CONCRETE, FORMWORK AND REINFORCEMENT			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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 Section 4		R	
	Bill No. 2 Concrete, Formwork and Reinforcement			

Formwork:				
Descriptions of formwork shall be deemed to include use and waste only (except where described as left in or permanent), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before 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.				
UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
15Mpa/19mm Concrete				
Surface blinding under footings and bases.	m3	2		
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
30MPa/20mm concrete:				
Concrete raft slab on waterproofing.	m3	10		
TEST BLOCKS				
Test blocks:				
Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	10		
			_	
Section 4			R	<u></u>
Bill No. 2 Concrete, Formwork and Reinforcement				
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	FINISHING TOP SURFACE OF CONCRETE				
	Finishing top surfaces of concrete smooth with a wood float:				
4	Surface beds, suspended slabs, ground slabs, etc.	m2	43		
	ROUGH FORMWORK (DEGREE OF ACCURACY III)				
	Rough Formwork to Sides:				
5	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	28		
	SMOOTH FORMWORK (DEGREE OF ACCURACY I)				
	Smooth Formwork to Sides:				
6	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m2	16		
	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	48		
	Saw cut joints:				
8	6 x 40mm Saw cut joints in top of concrete (Provisional).	m	39		
	REINFORCEMENT (PROVISIONAL)				
9	High tensile steel reinforcement bars to structural concrete work.	t	3.05		
	Fabric reinforcement:				
10	REF. 617 fabric reinforcement in concrete surface beds, raft slabs etc.	m2	43		
	Occurded to Oction			1	+
	Section 4			R	+
	Bill No. 2 Concrete, Formwork and Reinforcement				

Section 4			
Bill No. 2			
Concrete, Formwork and Reinforcement			
COLLECTION			
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Bill No. 2 Concrete, Formwork and Reinforcement			
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Item No		Quantity	Rate	Amount
	SECTION 4			
	BILL No. 3			
	MASONRY			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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 Section 4		R	
	Bill No. 3 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"				
	BRICKWORK AND BLOCKWORK SUNDRIES				
	Galvanized brickwork reinforcement				
1	115mm Wide reinforcement built in horizontally	m	374		
2	230mm Wide reinforcement built in horizontally.	m	517		
	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.	No	31		
	Air bricks etc:				
4	229 x 152mm terracotta clay vermin proof air brick	No	20		
	Carried to Collection			R	
	Section 4 Bill No. 3 Masonry				

Ì	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).	m2	102		
	<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	m	23		
	Carried to Collection			R	
	Section 4 Bill No. 3 Masonry				

	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.	m2	9		
9	One brickwall pointed on both sides.	m2	181		
10	Half brickwall pointed on both sides.	m2	13		
11	Fair raking cutting.	m	15		
	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.	m	13		
13	220mm Wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on both sides.	m	15		
	Carried to Collection			R	
	Section 4 Bill No. 3 Masonry				

Section 4				
Bill No. 3				
Masonry				
COLLECTION				
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Bill No. 3 Masonry				
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Item No		Quantity	Rate	Amount
	SECTION 4			
	BILL No. 4			
	WATERPROOFING			
	Quantity Split:			
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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.			
	Carried to Collection		R	
	Section 4 Bill No. 4 Waterproofing			

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	Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.				
	Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 250 micron 'USB GREEN' waterproof sheeting sealed at laps with 'Gunplas Pressure Sensitive Tape':				
1	Under surface beds, bases, etc.	m2	43		
	One layer of 350 micron embossed dampcourse waterproof sheeting below walls, sills, etc:				
2	Below walls, sills, etc.	m2	5		
	JOINT SEALANTS ETC				
	Clear Neutral silicone sealant:				
3	In joint sealing and pointing all round external window and door frames.	m	100		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
4	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary (Provisional).	m	36		
					+
	Carried to Collection Section 4			R	+
	Bill No. 4 Waterproofing				

Section 4				
Bill No. 4				
Waterproofing				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 102 103		Amount	
Carried Forward to Summary of Section No. 4 Section 4 Bill No. 4 Waterproofing		R		

Item No		Quantity	Rate	Amount
	SECTION 4			
	BILL No. 5			
	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:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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 4		R	
	Bill No. 5 Roof Coverings Etc.			

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Quality Assurance				
The manufacturer shall be assessed and certifed as complying with ISO 9001: 2008 Quality Management System				
<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				
Carried to Collection		R		
Section 4				\vdash
Bill No. 5 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 4 Bill No. 5 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.	2 43	1		
	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.	า 18			
	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	2 43			
	Carried to Collection		R		
	Section 4 Bill No. 5 Roof Coverings Etc.				
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Section 4]
Bill No. 5				Ì
Roof Coverings Etc.				
COLLECTION				Ì
Total Brought Forward from Page No.	Page No 105 106 107 108		Amount	
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Bill No. 5 Roof Coverings Etc.				

Item No		Quantity	Rate	Amount
	SECTION 4			
	BILL No. 6			
	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:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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.			
	CARPENTRY			
	Sawn softwood:			
1	38 x 114mm Wall plate.	m 30		
2	50 x 76mm Purlins.	m 50		
3	50 x 76mm Bracing.	m 32		
4	38 x 152mm Rafters.	m 32		
	Carried to Collection		R	
	Section 4 Bill No. 6 Carpentry and Joinery			

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Sundries:					
TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional).	No	95			
EAVES, VERGES, ETC					
"Everite Nutec" or equal approved fibre cement					
12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc.	m	28			
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	16			
DOORS ETC					
SANS Approved meranti:					
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	6			
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	3			
FRAMED FRAMES, ETC					
Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides:					
70 x 108mm rebated meranti frame .	m	38			
Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides:					
70 x 108mm rebated meranti frame .	m	10			
Carried to Collection	,		R		
Section 4 Bill No. 6 Carpentry and Joinery					
	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). EAVES, VERGES, ETC "Everite Nutec" or equal approved fibre cement 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. DOORS ETC SANS Approved meranti: 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). 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). FRAMED FRAMES, ETC Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame .	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). EAVES, VERGES, ETC "Everite Nutec" or equal approved fibre cement 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. DOORS ETC SANS Approved meranti: 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). 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 FRAMED FRAMES, ETC Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . m Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . m	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). EAVES, VERGES, ETC "Everite Nutec" or equal approved fibre cement 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. 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 16 DOORS ETC SANS Approved meranti: 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 6 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 7 FRAMED FRAMES, ETC Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . m 38 Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . m 10 Carried to Collection Section 4 Bill No. 6	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galivanised clout nails (Provisional). EAVES, VERGES, ETC "Everite Nutec" or equal approved fibre cement 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galivanised steel H-profile jointing strips, etc. 85 x 275 x 6mm Barge board drilled and brass screwed to purini ends including galivanised steel H-profile jointing strips, cerews, holes, etc. m 16 DOORS ETC SANS Approved meranti: 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 6 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 7 FRAMED FRAMES, ETC Meranti Frames bolted to wall with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . m 38 Meranti Frames fixed against brickwall using galvanised steel lugs bolted with expanding masonry bolts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . m 10	TRI FIX or equal approved hurricane clip fixed using 10 x 32mm galvanised clout nails (Provisional). EAVES, VERGES, ETC "Everite Nutec" or equal approved fibre cement 12 x 225mm Fascia board drilled and brass screwed to rafter feet including galvanised steel H-profile jointing strips, etc. 85 x 275 x 6mm Barge board drilled and brass screwed to purlin ends including galvanised steel H-profile jointing strips, screws, holes, etc. DOORS ETC SANS Approved meranti: 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 6 44mm Framed, ledged, and battened purpose made single door with flush ply panel internally size 813 x 1832mm high comprising 44 x 110mm top. 220mm bottom rail, 44 x 150mm lock rail and 22 x 70mm vertical "v" jointed boards (D4). No FRAMED FRAMES, ETC Meranti Frames botted to wall with expanding masonry botts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . Meranti Frames fixed against brickwall using galvanised steel lugs botted with expanding masonry botts - four per style including quadrant beads on both sides: 70 x 108mm rebated meranti frame . Carried to Collection R Section 4 Bill No. 6

Section 4				
Bill No. 6				
Carpentry and Joinery				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 110 111		Amount	
Carried Forward to Summary of Section No. 4 Section 4 Bill No. 6 Carpentry and Joinery		R		

Item No		Quantity	Rate	Amount
	SECTION 4			
	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:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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			
	Carried to Collection Section 4		R	
	Bill No. 7 Ironmongery			

	LINCES.	1				1
1	HINGES: 75 x 100mm Brass Medium duty ball bearing HMP butt					
	hinges.	Pairs	9.0			
	<u>LOCKS</u>					
2	"UNION 2277-78SS" or equal approved three lever sash mortice lockset.	No	9			
3	"UNION w/c indicator bolt satin chrome - Code CZ80941SC	No	5			
	HANDLES					
4	"Dorma DPH301B" or equal approved Stainless Steel Straight Tubular Pull handle flange fixing.	No	9			
	Sundries:					
5	Stainless Steel Hat and coat hook, code DHC - SS-030-A or equal approved.	No	5			
6	38mm Diameter black rubber door stop plugged and screwed to wall.	No	9			
	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	9			
	SUNDRIES					
	Halcast or equal approved"					
8	Thiefproof toilet roll holder plugged.	No	7			
	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.	No	2			
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	Carried to Collection			R		<u> </u>
	Section 4 Bill No. 7 Ironmongery					
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10	32mm outside diameter x 1,6mm thick tubular wall mounted around cistern back stainless steel grab rail 1,23m girth with two 90 degree formed bends and each end fitted with 80mm diameter x 5mm thick flange welded on and four times countersunk holed for and				
	plugged and screwed to wall with stainless steel crews. No	2			
	Carried to Collection		R		
	Section 4 Bill No. 7 Ironmongery				
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Section 4				
Bill No. 7				
Ironmongery				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	113			_
	114			
	115			
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Carried Forward to Summary of Section No. 4		R		
Section 4 Bill No. 7				
Ironmongery				

Item No		Quantity	Rate	Amount
1	SECTION 4			
	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:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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			
	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:			
1	Security gate size 900 x 2 050mm high (G1).	2		
	Carried to Collection Section 4 Bill No. 8 Metalwork		R	

ALUMINIUM WINDOWS			
All aluminium windows are to be manufactured by manufacturers who are members of AAAMSA. All aluminium systems to be approved by AAAMSA.			
All aluminium work is to be protected by covering with plastic sheeting fixed with low tack adhesive prior to leaving the factory. Plastic sheeting is to remain in place during construction.			
All glazing shall be in accordance with SABS 0400 - 1990, SABS 1263 - 1. All safety glazing materials (individual panes) shall be permanently marked. Such marking shall be visible after glazing process. If it is not marked, it is not safety glass.			
Natural anodised aluminium windows glazed with 6.38mm safety laminated glass and plugged to brickwork:			
Window Size 600 x 600mm high complete, including ironmongery etc, all as per Window Type W01.	11		
Carried to Collection		R	
Section 4 Bill No. 8 Metalwork			-

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Section 4				
Bill No. 8				
Metalwork				
COLLECTION				
COLLECTION Total Brought Forward from Page No.	Page No 117 118		Amount	
Carried Forward to Summary of Section No. 4		R		
Section 4 Bill No. 8 Metalwork				

Item No		Quantity	Rate	Amount
	SECTION 4			
	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:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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. m2	43		
	<u>Skirtings</u>			
2	75mm High coved granolithic skirting. m	67		
	Carried Forward to Summary of Section No. 4		R	
	Section 4 Bill No. 9 Plastering			
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Item No		Quantity	Rate	Amount
	SECTION 4			
	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:			
	A1 - Staff Toilet AR - Grade R x 3 seats			
	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 13		
2	Extra over eaves gutter for stopped end.	lo 4		
3	Extra over eaves gutter for outlet for 100 x 75mm aluminium downpipe.	lo 4		
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 16		
5	Extra over rainwater downpipe for bends.	lo 8		
	Carried to Collection		R	
	Bill No. 10 Plumbing and Drainage (Provisional)			
4	aluminium downpipe. 100 x 75 x 0.6mm rectangular fluted downpipes fixed to wall with and including proprietary holderbats to 5000L rainwater tanks (elsewhere measured). Extra over rainwater downpipe for bends. Carried to Collection Section 4 Bill No. 10	m 16		

	TAPS, VALVES, ETC				
	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	6		
7	15mm Ball-o-stop valve.	No	4		
8	22mm Non Return valve.	No	13		
	WASTE UNIONS ETC				
	Outlets, traps, etc:				
9	40mm 342/50 CP bottle trap.	No	2		
10	40mm Code 316 chrome plated unslotted waste outlet.	No	4		
11	40mm Rubber "P" or "S" trap	No	4		
	Carried to Collection Section 4			R	
	Bill No. 10 Plumbing and Drainage (Provisional)				
	3 (,				

1	SANITARY FITTINGS				
	Vaal or equal approved:				
12	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	8		
13	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	5		
14	Orchid back inlet white vitreous china wall hung paraplegic 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	2		
	SANITARY PLUMBING				
	PVC waste or vent pipes and fittings:				
15	50mm Waste pipe.	m	83		
16	110mm Pipe.	m	43		
17	110mm Pipe and laying in ground or filling not exceeding 2m deep including excavation, filling in and ramming.	m	91		
	Carried to Collection			R	
	Section 4 Bill No. 10 Plumbing and Drainage (Provisional)				

	Extra for:				
18	50mm Bend.	No	12		
19	50mm Access bend.	No	10		
20	50mm Access bend	No	12		
21	50mm Junction	No	8		
22	50mm Access junction	No	8		
23	110mm Bend	No	6		
24	100mm Access bend.	No	8		
25	110mm Socket	No	8		
26	110mm Junction	No	8		
27	110mm Reducing junction	No	8		
28	110mm Access junction	No	8		
29	110mm Two-way vent valve	No	8		
30	110mm Pan connector	No	7		
	uPVC gulleys				
31	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		
	Connection to existing sewer line				
32	Allow for connection to existing water supply.		Item		
	<u>Testing</u>				
33	Testing sewer pipe system		Item		
	WATER SUPPLIES				
	Carried to Collection Section 4 Bill No. 10 Plumbing and Drainage (Provisional)			R	

	Polycop pipes:				
	Pipes shall be class 10.				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
	Polycop pipes chased in walls:				
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.				
	Reducing fittings:				
	Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.				
	Class 10 Polycop pipes:				
ļ	15mm Pipe chased into brick walls.	m	78		
5	22mm Pipe chased into brick walls.	m	60		
	Extra over polycop pipes for compression fittings:				
6	15mm Fittings.	No	50		
,	22mm Fittings.	No	40		
	Class "O" copper pipes:				
3	15mm Pipes chased in brickwork	m	36		
)	22mm Pipes chased in brickwork	m	50		
)	28mm Pipes	m	35		
	Carried to Collection			R	
	Section 4 Bill No. 10 Plumbing and Drainage (Provisional)				_

	Extra over class "O" copper pipes for capillary fittings				
41	15mm Fittings	No	15		
42	22mm Fittings	No	15		
43	28mm Fittings	No	10		
	Copper flexible service pipes				
44	15mm Service pipe 340mm girth	No	2		
	Connection to existing water supply				
45	Allow for connection to existing water supply.		Item		
	<u>Testing</u>				
46	Testing water pipe system		Item		
	Commind to College	00		5	
	Section 4	OII		R	
	Bill No. 10 Plumbing and Drainage (Provisional)				
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Section 4				
Bill No. 10				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	121			
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Carried Forward to Summary of Section No. 4 Section 4		R		┢
Bill No. 10 Plumbing and Drainage (Provisional)				

Item No			Quantity	Rate	Amount
	SECTION 4				
	BILL No. 13				
	PAINTWORK				
	Quantity Split:				
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
	A1 - Staff Toilet AR - Grade R x 3 seats				
	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				
	Trade Names				
	Where trade names are specified it will read "or equal approved"				
	PAINTWORK ETC TO NEW WORK				
	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	m2	33		
2	On door frames	m2	15		
	Carried to Collection			R	
	Section 4 Bill No. 11 Paintwork				

	Prepare and apply two coats carbolenium on:				
3	On exposed timbers.	m2	31		
	ON FIBRE-CEMENT				
	Prepare and apply two coats pure acrylic roof paint on:				
4	On fascias and barge boards.	m2	19		
	ON METAL				
	Prepare and apply one coat zinc phosphate alkyd resin primer, one coat universal undercoat and two full coats high gloss enamel paint				
5	On gates, grilles, burglar screens, balustrades, etc (both sides measured over the full flat area)	m2	7		
	Carried to Collection			R	
	Section 4 Bill No. 11				
	Paintwork				

Section 4				Ì
Bill No. 11				Ī
Paintwork				1
COLLECTION				1
Total Brought Forward from Page No.	Page No 128 129		Amount	
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Carried Forward to Summary of Section No. 4 Section 4 Bill No. 11 Paintwork		R		

Section 4 **SECTION SUMMARY - GRADE R AND DISABLED TOILET** Page Amount No Earthworks (Provisional) 92 Concrete, Formwork and Reinforcement 96 Masonry 101 Waterproofing 104 Roof Coverings Etc. 109 Carpentry and Joinery 112 Ironmongery 116 Metalwork 119 Plastering 120 Plumbing and Drainage (Provisional) 127 Paintwork 130 **Carried to Final Summary** R Section 4

Bill

No

Item No			Quantity	Rate	Amount
	SECTION No. 5				
	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	300		
2	Stripping average 200mm thick layer of topsoil and stockpiling on site.	m2	300		
3	Remove and grub large trees and tree stumps of girth over 1m and up to including 2m	No	2		
	Open face excavation not exceeding 2m deep:				
4	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	90		
	Extra over trench and hole excavations in earth for excavation in:				
5	Soft rock.	m3	7		
6	Hard rock.	m3	5		
	Carried to Collection Section 5			R	
	Bill No. 1 External Works				

	Extra over all excavations for carting away:				
7	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	45		
	Earth filling from excavated material				
8	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	22		
	Filling supplied by the contractor to form platforms				
9	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	46		
	Surface Preparation:				
10	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	300		
	Prescribed density tests on filling:				
11	Modified AASHTO Density test.	No	5		
	WATER RETICULATION				
	WATER SUPPLY IN GROUND				
	Repair to water supply line				
12	Investigate existing water pipe line and trace leaks	m	50		
13	Investigate as necessary to identify location and extent of leaks including excavations, cartaway, backfilling, etc	No	5		
14	Cut into existing pipe not exceeding 32mm diameter to remove damaged portion and reinstate, including testing (cutting into plaster and making good elsewhere				
	measured)	No	5		
					_
	Carried to Collection			R	
	Section 5				
	Bill No. 1 External Works				

1		1	1		11	1
	HDPE 100PN 12.5 pressure pipes:					
15	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	80			
16	40mm Pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	30			
	Extra over (PN12.5) HDPE piping for fittings:					
17	32mm Bend.	No	8			
18	32mm Adaptor.	No	8			
19	40mm Bend.	No	8			
20	32mm Tee.	No	8			
21	40mm Tee.	No	8			
	Carried to Collection Section 5	n		R		<u></u>
	Bill No. 1 External Works					

	WATER SUPPLY					
	HDPE 100PN 12.5 pressure pipes:					
22	32mm pipes laid in depths not exceeding 1m including excavation, bedding, backfilling, compaction and disposal of surplus material.	m	80			
	Extra over (PN12.5) HDPE piping for fittings:					
23	32mm Bend.	No	7			
24	32mm Adaptor.	No	7			
25	32mm Tee.	No	4			
	TAPS, VALVES, ETC					
26	32mm "Cobra" Ball Valve complete with adaptors for HDPE pipe.	No	1			
27	32mm Non-return valve.	No	1			
	Municipal connection					
	Sundries:					
28	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.		ltem		20 000.0	0
29	Allow for profit if required.		Item			
	Testing:					
30	Testing water pipe system.		Item			
	THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.					
	STORMWATER APRONS					
	Excavation not exceeding 2m deep					
31	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	11			
						_
	Section 5 Bill No. 1 External Works			R		

	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
	·	_			
32	Off site to a dumping site to be found by the Contractor.	m3	11		
	Filling supplied by the contractor under floors, aprons, etc				
33	G7 Base course material compacted to 98% Mod AASHTO density	m3	5		
34	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	5		
	Coarse river sand filling supplied by the contractor:				
35	Under floors etc.	m3	1		
	Compaction of surfaces:				
36	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	27		
	defisity.	1112	21		
	Prescribed density tests on filling:				
37	In-situ dry density test.	No	4		
	Reinforced 25Mpa/19mm Concrete:				
38	Surface beds cast in panels on waterproofing.	m3	2		
39	Edge thickening	m3	1		
	Finishing top surfaces of concrete smooth with a wood float:				
40	Surface beds, slabs, etc to falls and currents.	m2	27		
	Test blocks:				
41	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	0			5	
	Section 5			R	\vdash
	Bill No. 1				
	External Works				

	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
42	12mm Joints not exceeding 300mm high.	m	20		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
43	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	20		
	Fabric reinforcement:				
44	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	27		
	Waterproofing under Surface beds				
45	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	27		
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	STORMWATER CHANNELS				
	Excavation not exceeding 2m deep				
46	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	8		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
47	Off site to a dumping site to be found by the Contractor.	m3	4		
	Filling supplied by the contractor under channels				
48	G7 Base course material compacted to 98% Mod AASHTO density	m3	2		
49	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		
	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.				
50	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground not exceeding 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	36		
51	Extra for 700mm angle	No	3		
52	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in ass diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	1		
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	Sundries:				
53	Create earth berm for stormwater control with in situ material 1,5m wide at base x 500mm high	m	45		
	THE FOLLOWING IN STORMWATER DISH DRAIN, ETC.				
	Excavation not exceeding 2m deep				
54	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	12		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
55	Off site to a dumping site to be found by the Contractor.	m3	6		
	Filling supplied by the contractor under floors, aprons, channels etc				
56	G7 Base course material compacted to 98% Mod AASHTO density	m3	3		
57	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:				
58	Under floors etc.	m3	2		
	Compaction of surfaces:				
59	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	40		
	Prescribed density tests on filling:				
60	In-situ dry density test.	No	4		
	Reinforced 25Mpa/19mm Concrete:				
61	Surface beds cast in panels on waterproofing.	m3	4		
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	Finishing top surfaces of concrete smooth with a wood float:				
62	Surface beds, slabs, etc to falls and currents.	m2	40		
	Test blocks:				
63	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
64	12mm Joints not exceeding 300mm high.	m	40		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
65	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	40		
	Fabric reinforcement:				
66	REF. 617 fabric reinforcement in concrete surface beds, slabs, etc.	m2	40		
	THE FOLLOWING IN SOAKAWAY				
	Site Clearance, Etc				
67	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	20		
	Excavation in earth not exceeding 2m deep:				
68	Holes	m3	15		
	Extra over all excavations for carting away				
69	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	15		
	Risk of collapse of excavations				
70	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	21		
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	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density				
71	Backfilling to holes	m3	5		
	Earth filling with stone material supplied by the contractor:				
72	Stone (>63mm).	m3	10		
	<u>Membranes</u>				
73	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	21		
	Keeping excavations free of water				
74	Keeping excavations free of all water other than subterranean water		Item		
	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.				
	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.				
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	Laying, backfilling, bedding, etc of pipes:			
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.			
	Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following:			
	SABS 1200 L: Medium pressure pipelines LD: Sewers LE: Stormwater drainage Pipe trenches etc shall be backfilled in accordance with clause 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches) Clause 5.7.2 will only be applicable if authorised by the Engineer in writing.			
	Descriptions of pipes laid in trenches:			
	Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site			
	Descriptions of catchpits, junction boxes, manholes, etc:			
	Descriptions of catchpits, junction boxes, manholes, etc, shall be deemed to include for compaction, disposal of surplus excavated material to a dumping site located by the contractor, risk of collapse and keeping excavations free from water.			
	Density testing on filling:			
	Rates for filling, etc. shall include for all density and soil type testing to prove that the specified compaction is achieved. When additional testing is done on instruction of the Principal Agent and these tests are successful, they will be paid for additionally.			
	Repair to soil drainage			
;	Investigate existing soil drainage pipe and trace leaks m	75		
;	Investigate as necessary to identify location and extent of leaks including excavations, cartaway, backfilling, etc No	5		
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77	Cut into existing pipe not exceeding 110mm diameter to remove damaged portion and reinstate, including testing (cutting into plaster and making good elsewhere measured)	No	5			
	BULK SEWER RETICULATION					
	Heavy duty (Class 34) PVC-U sewer and drain pipes					
78	110mm Pipes laid in and including trenches not exceeding 1m deep	m	80			
79	110mm Pipes laid in and including trenches exceeding 1m but not exceeding 2m deep	m	10			
	Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings					
80	110mm Bend	No	6			
81	110mm Rodding eye	No	4			
	PRE-CAST CONCRETE MANHOLES					
	Pre-cast concrete circular inspection chambers including pre-cast concrete cover slabs, covers and channels in benching					
82	Manhole 1000mm diameter not exceeding 1m deep.	No	1			
83	Manhole 1000mm diameter exceeding 1m and not exceeding 2m deep.	No	1			
	SUNDRIES					
	<u>Earthworks</u>					
84	Selected granular filling Class 'B' supplied by the Contractor in bedding under pipes.	m3	6			
85	Selected 19mm stone supplied by the Contractor in bedding under pipes.	m3	6			
86	300 x 300 x 75mm Pre-cast concrete inspection eye marker slab set in ground.	No	4			
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1	Manhole covers				
87	620mm dia Type 2A Heavy duty cast iron manhole to SABS 558	No	2		
	Connection				
88	Allow for connecting to Waste Water Treatment System (WWTS).		ltem		
	Testing:				
89	Testing drainage system.		Item		
	THE FOLLOWING IN WALKWAYS				
	Excavation not exceeding 2m deep				
90	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	32		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
91	Off site to a dumping site to be found by the Contractor.	m3	8		
	Filling supplied by the contractor under walkways				
92	G7 Base course material compacted to 98% Mod AASHTO density	m3	13		
93	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	19		
	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:				
94	Under floors,etc.	m2	137		
	Prescribed density tests on filling:				
95	In-situ dry density test.	No	8		
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96	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years: Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved. 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	m2	137		
97	(elsewhere measured) conforming to SABS 1200D degree of accuracy I: Paving to walkway areas, etc laid to falls.	m2	137		
	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.				
98	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	80		
99	Ditto but circular on plan.	m	4		
	Fibre glass grating				
	Fibre glass grating				
100	Supply and install 600mm wide fibre glass grating on top of v-drains including galvanised angle iron bedded in 25Mpa concrete with lugs	m	12		
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	THE FOLLOWING IN ONE BRICK WALL (GARDEN WALL)				
	Excavation in earth not exceeding 2m deep:				
101	Trenches.	m3	15		
	Extra over all excavations for carting away:				
102	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	15		
	Risk of collapse of excavations:				
103	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	60		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
104	Backfilling to trenches, holes, etc.	m3	10		
	Filling supplied by the contractor under strip footing				
105	G7 Base course material compacted to 98% Mod AASHTO density	m3	4		
106	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	4		
	Compaction of surfaces				
107	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO				
	density.	m2	19		
	25 Mpa/19mm Concrete				
108	Strip footings.	m3	4		
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	Test blocks:		Ì		
109	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	Reinforcement (Provisional)				
110	High tensile steel reinforcement bars to structural concrete work.	t	0.50		
	BRICKWORK IN FOUNDATIONS.				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
111	One brick walls.	m2	8		
	Brickwork reinforcement:				
112	230mm Wide reinforcement built in horizontally.	m	66		
113	Ditto but in foundations.	m	12		
	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):				
114	One brickwall faced on both sides.	m2	30		
115	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: 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	15		
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	STORMWATER CHANNELS				
	Excavation not exceeding 2m deep				
116	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	10		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
117	Off site to a dumping site to be found by the Contractor.	m3	10		
	Filling supplied by the contractor under channels				
118	G7 Base course material compacted to 98% Mod AASHTO density	m3	6		
119	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	5		
	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.				
120	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	38		
121	Extra for 700mm angle	No	4		
122	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	3		
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	THE FOLLOWING IN DISABLED ACCESS				1
	SCREEN WALL				l
	Excavation in earth not exceeding 2m deep:				ı
123	Trenches.	m3	3		l
	Extra over all excavations for carting away:				l
124	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	3		
	Risk of collapse of excavations:				ı
125	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	8		ĺ
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
126	Backfilling to trenches, holes, etc.	m3	3		l
	Filling supplied by the contractor under strip footing				l
127	G7 Base course material compacted to 98% Mod AASHTO density	m3	3		
128	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	3		
	Compaction of surfaces				l
129	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	12		
	25 Mpa/19mm Concrete				l
130	Strip footings.	m3	2		l
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	Test blocks:					
131	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3			
	Reinforcement (Provisional)					
132	High tensile steel reinforcement bars to structural concrete work.	t	0.50			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
133	One brick walls.	m2	12			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork reinforcement:					
134	230mm Wide reinforcement built in horizontally.	m	36			
135	Ditto but in foundations.	m	6			
	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):					
136	One brickwall faced on both sides.	m2	24			
	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:					
137	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	6			
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	ACCESS RAMPS				
	Excavation not exceeding 2m deep				
138	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	9		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
139	Off site to a dumping site to be found by the Contractor.	m3	9		
	Filling supplied by the contractor under floors, aprons, etc				
140	G7 Base course material compacted to 98% Mod AASHTO density	m3	4		
141	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	5		
	Coarse river sand filling supplied by the contractor:				
142	Under floors etc.	m3	3		
	Compaction of surfaces:				
143	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	57		
	Prescribed density tests on filling:				
144	In-situ dry density test.	No	5		
	Reinforced 25Mpa/19mm Concrete:				
145	Ramps, Landings, etc.	m3	6		
	Finishing top surfaces of concrete smooth with a wood float:				
146	Surface beds, slabs, etc to falls and currents.	m2	57		
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	Test blocks:				
147	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	5		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
148	12mm Joints not exceeding 300mm high.	m	57		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
149	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	57		
	Fabric reinforcement:				
150	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	57		
	Waterproofing under Surface beds				
151	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	57		
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	THE FOLLOWING IN ACCESS DRIVEWAY, ETC.				
	Excavation not exceeding 2m deep				
152	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	20		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
153	Off site to a dumping site to be found by the Contractor.	m3	5		
	Filling supplied by the contractor under driveways				
154	G7 Base course material compacted to 98% Mod AASHTO density	m3	5		
155	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	5		
	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:				
156	Under floors,etc.	m2	48		
	Prescribed density tests on filling:				
157	In-situ dry density test.	No	5		
	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:				
158	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	m2	48		
	150-175mm diameter bollards				
159	2100mm long tanalith treated gum pole planted 800mm deep including excavations, cartaways, concrete base etc.	No	6		
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	THE FOLLOWING IN RAINWATER TANKS AND STANDS				
100	Excavation in earth not exceeding 2m deep:	0	-		
160	Trenches.	m3	7		
161	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	2		
	Extra over all excavations for carting away:				
162	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	4		
	Risk of collapse of excavations:				
163	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	25		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
164	Backfilling to trenches, holes, etc.	m3	3		
	Filling supplied by the contractor under strip footing, floors etc.				
165	G7 Base course material compacted to 98% Mod AASHTO density	m3	3		
166	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	3		
	Compaction of surfaces				
167	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO				
	density.	m2	8		
	25 MPa/19mm Concrete:				
168	Concrete raft slab on waterproofing.	m3	2		
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1	Test blocks:				
169	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	3		
	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:				
170	Surface beds, slabs, etc.	m2	8		
	Rough Formwork to Sides:				
171	Edges, risers, ends and reveals not exceeding 300mm high.	m	15		
	Smooth Formwork to Sides:				
172	Edges, risers, ends and reveals exceeding 300mm high.	m2	15		
	Allens Meshco Square Mesh Fabric reinforcement:				
173	Type 617 fabric reinforcement in concrete slabs.	m2	8		
	BRICKWORK IN FOUNDATIONS.				
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):				
174	One brick walls.	m2	16		
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	BRICKWORK IN SUPERSTRUCTURE	1			
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):				
175	One brick walls.	m2	16		
	Brickwork reinforcement:				
176	230mm Wide reinforcement built in horizontally.	m	53		
177	Ditto but in foundations.	m	15		
	Plastic water tanks etc:				
178	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	2		
179	Hole top of tank for 100mm pipe.	No	2		
	THE FOLLOWING IN SECURITY FENCING, ETC				
	Site clearance				
180	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	65		
	Straining wires, fencing and razor wire:				
181	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	6		
182	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	65		
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183	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	65		
	Posts for 1 800mm high security fence:				
184	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	2		
185	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	2		
186	150mm Ditto as gate post 1 800mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	2		
187	12mm Diameter galvanised mild steel straining eye bolt				
	with hook, threaded portion and two nuts and washers.	No	2		
188	Form 12mm diameter hole through fence post.	No	2		
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	Section 5 Bill No. 1 External Works				

	<u>Gates:</u>				
189	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		
190	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	1		
	PADLOCKS				
191	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	2		
	Carried to Collection Section 5 Bill No. 1 External Works			R	

Bill No. 1				
External Works				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	132			
	133			
	134			
	135			
	136			
	137			
	138			
	139			
	140			
	141			
	142			
	143			
	144			
	145			
	146			
	147			
	148			
	149			
	150			
	151			
	152			
Carried Forward Section 5 Bill No. 1 External Works		R		

Section 5					
Bill No. 1					
External Works					
COLLECTION					
		Page		Amount	
	Brought Forward	No	R		
Total Brought Forward from Page No.		153			-
		154			-
		155			-
		156			-
		157			-
		158			-
					-
Carried	I to Final Summary		R		
Section 5	· · · · · · · · · · · · · · · · ·				_
Bill No. 1 External Works					

Item No		Quantity	Rate	Amount
	SECTION 6			
	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 (Fifty Eight Thousand Five Hundred Rands) 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		%	
	Carried to Final Summary Section 6 Bill No. 1 Provisional Sums		R	

	FINAL SUMMARY			
Section No		Page No		Amount
1	PRELIMINARIES	31		
2	DEMOLITIONS (PROVISIONAL)	35		
3	REPAIR AND RENOVATIONS	87		
4	GRADE R AND DISABLED TOILET	131		
5	EXTERNAL WORKS (PROVISIONAL)	160		
6	PROVISIONAL SUMS	161		
	SUB-TOTAL		R	
	Provide 5% (FIVE PERCENT) on Sub-total (A) as contingency to be deducted in whole or in part if not			
	required		R	
	SUB TOTAL (B)		R	
	Add Value Added Tax at the rate of 15%		R	
	Carried to Form of Offer and Acceptance		R	