Item No		Quantity	Rate	Amount	
	SECTION No. 1				
	BILL No.1				
	PRELIMINARIES				
	1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contract Committee and as amended by this Tender Enquiry.				
	2. The Preliminaries shall be JBCC Series 2000, May 2005 for use with the Principal Building Agreement as recommended by the Joint Building Contracts Committee and as amended by this Tender Enquiry shall be deemed to be incorporated herein.				
	3. Tenderers are referred to the above mentioned 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.				
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6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained. 7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended. 8. Where any item is not relevant to this specific contract, such item is marked N/A. 9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "Fr,"V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.		
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	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	DEFINITIONS			
	Definitions and interpretation (Clause 1).			
1	F: V: T:	Item		
	OBJECTIVE AND PREPARATION			
	Offer, acceptance and performance (Clause 2).			
2	F: V: T:	Item		
	Documents (Clause 3).			
	Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'			
	Clause 3.3 is deleted and substituted with:			
	The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'.			
3	F: V: T:	Item		
	Design responsibility (Clause 4).			
4	F: V: T:	Item		
	Employer's agents (Clause 5).			
5	F: V: T:	Item		
	Site representative (Clause 6).			
6	F: V: T:	Item		
	Compliance with regulations (Clause 7).			
7	F: V: T:	Item		
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	Works risk (Clause 8)			
8	F: V: T:	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		
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	Contract instructions (Clause 17).			
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).			
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25	F: V: T:	Item		
	Final completion (Clause 26).			
	Latent defects liability period (Clause 27).			
	Clause 27.0 is amended by the addition of the following clauses:			
	"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".			
	"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accummulates in order to attend to a comprehensive list of defects"			
26	F: V: T:	Item		
	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 :-		
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To be advised.		
Penalty amount will be 5,75c/R100 of Contract Sum.		
Clause 42.2.8		
Intended dates of practical completion and the penalties per calendar day for the works in sections :		
N/A		
Clause 42.2.9		
The law applicable to this agreement shall be that of - Republic of South Africa.		
INSURANCES (Clause 42.3)		
Clause 42.3.1		
Contract works insurance to be effected by Contractor for the sum of: Contract Sum		
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.		
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DOCUMENTS (Clause 42.4)			
Clause 42.4.1			
Waiver of the contractor's lien is required :- YES			
Clause 42.4.2			
Number of construction document copies to be supplied to the Contractor free of charge :- 1			
Clause 42.4.3			
Bills of Quantities drawn up in accordance with :-			
Standard System of Measuring Building Work - Seventh Edition including all amendments			
Clause 42.4.4			
Number of days for submission of priced documents : 5 working days from the Letter of Appointment.			
Clause 42.4.5			
JBCC Engineering General Conditions are to be included in the documents :- No			
Clause 42.4.6			
The contract value is to be adjusted using CPAP:- NO			
SECTION B: PRELIMINARIES			
DEFINITIONS AND INTERPRETATION (B1)			
Definitions and Interpretation (B1)			
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DOCUMENTS (B2)			
Checking of documents (B2.1)			
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	Notwithstanding the issue of the tender drawings, it will remain the responsibility of the Tenderer to study all available drawings at the offices of the Principal Agent during normal working hours in order to acquaint himself with all the cost implications of the design, programming, phasing, etc.			
42	F: V: T:	Item		
	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)			
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	The area of the works to be occupied by the contractor, any restriction on the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.			
	Workmen employed on the site are to be restricted to the immediate area of the site and access thereto.			
	The Tenderer shall make all necessary provision in all rates to take into account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.			
48	F: V: T:	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)			
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56	F: V: T:	Item		
	Articles of value (B3.10)			
57	F: V: T:	Item		
	Inspection of adjoining properties (B3.11)			
58	F: V: T:	Item		
	MANAGEMENT OF CONTRACT (B4)			
	Management of the Works (B4.1)			
59	F: V: T:	Item		
	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)			
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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		
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	Payment certificate cash flow (B10.4)			
84	F: V: T:	Item		
	Contractor information supply (B10.5)			
85	F: V: T:	Item		
	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		
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	C4. Overtime			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
97	F: V: T:	Item		
	C5. As built drawings			
	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
	Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion.			
98	F: V: T:	Item		
	C6. Construction Instructions			
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
	a) Construction Instruction Book:			
	Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
	Only instructions issued in such book shall be recognised.			
	b) Daily Record Book:			
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	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his countersignature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.				
99	F: V: T:	Item			
	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.				
100	F: V: T:	Item			
	C8. Plant record				
	At the end of each week the contractor shall provide the principal agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently used on the works.				
101	F: V: T:	Item			
	C9. Encroachment				
	During the course of the building operations, the Contractor shall be held entirely responsible for any encroachment onto any adjoining properties, buildings, etc., or servitudes and the cost of any remedial measures as required by the Principal Agent shall be borne by the Contractor.				
102	F: V: T:	Item			
	C10. Method Statement				
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	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
103	F: V: T:	Item		
	C11. Unauthorised Persons/Workmen on Premises			
	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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112	SUB - TOTAL: VALUE - RELATED ITEMS	Item		
113	SUB - TOTAL: TIME - RELATED ITEMS	ltem		
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Section 1			
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Preliminaries			
COLLECTION			
	Page No		Amount
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Total Brought Forward from Page No.	99		
	100		
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	102		
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Section 1 Bill No. 1			
Preliminaries			

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

	The costs included herein must incorporate Community Liaison Officer (CLO).				
	OCCUPATIONAL HEALTH AND SAFETY				
	General:				
1	Preparation of Contractor's site specific Health and Safety Plan.		Item		
2	Submission of the Health and Safety File.		Item		
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.		Item		
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.		Item		
5	Provision of full time Health and Safety Officer for the entire construction period.		Item		
6	Induction training of personnel.	No	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	280		
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	2		
	Provision for Personal Protective Equipment and Protective Clothing:				
10	Reflective vests.	No	25		
11	Hard hats.	No	25		
12	Protective foot wear.	No	25		
13	Ear Plugs.	No	75		
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	Bill No. 2 Health and Safety				

14	Dust Masks.	No	75		
	Costs of Medical Certificates and Medical Surveillance:				
15	Initial (baseline) medical examinations.	No	1		
	C16. Covid-19 Compliance Measures				
16	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.		ltem		
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	Section 1 Bill No. 2 Health and Safety				

Section 1			
Bill No. 2			
Health and Safety			
COLLECTION			
COLLECTION Total Brought Forward from Page No.	Page No 105 106 107		Amount
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SECTION SUMMARY - PRELIMINARIES	Page		Amount
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Health and Safety	108		
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Section 1			

Bill No

Item No			Quantity	Rate	Amount
1	SECTION No. 2				
	BILL No. 1				
	SUNDRY BUILDERS WORK - ALL TRADES				
	Quantity Split:				
	Note that the total quantity per each item is split into the various buildings and appears below each description as follows:				
	ALTERATIONS				
	REMOVAL OF EXISTING WORK				
	Breaking up and removing reinforced concrete including cutting off and removing reinforcement				
1	Steps	m3	2		
2	80mm thick ramps and walkways	m2	6		
3	300 x 400mm Portion of 100mm thick slab	No	1		
	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)				
4	Remove VIP 250 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere).	No	4		
	Sundries				
5	Install galvanised steel padbolt striker plate with gate stopper, stopping gate from opening outwards	No	4		
6	Install overflow pipe to water storage tank	No	4		
7	Inspect and fix all leaks on plumbing installation		Item		
	Carried to Collection			R	
	Section 2 Bill No. 1 Sundry Builders Work				

1		1	1		ii i	1
	PREPARATORY WORK TO EXISTING SURFACES					
8	Making good defects in existing screeded floors with "Pavelite"	m2	12			
	WATERPROOFING					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates					
	SUPPLEMENTARY PREAMBLES					
	Proprietary products in descriptions:					
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval by the Principal Agent.					
	Waterproofing					
	Complete pit sealing/waterproofing from seepage due to underground water ingress as result of high water table, perched water tables etc					
	Contractor to provide water proofing product that will be 100% resistant to extreme hydrostatic pressure at depth of 2m, from the positive (water from inside) of substrate. Resistant to aggressive chemicals i.e oil, salt water, sewage, weak acids and aggressive sulphate soils. The product must be able to withstand backfilling without protection and must not be subject to deterioration. The product must be able to ensure that the pit structure is fully sealed (100% free from water ingress from outside and it will not penetrate the pit).					
	The product and its methodology for application must be approved by Principal Agent before it is used.					
	Carried to Collection			R		
	Section 2 Bill No. 1 Sundry Builders Work					
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	It is a mandatory requirement for the Contractor to attend training to be provided by Supplier. Proof of attendance will be required prior to application of the approved waterproofing product.					
	Contractor must prepare a 1m x 1m sample in the presence of the Principal Agent or Engineer. In this case, the Contractor must give at least 48 hours notice prior to the date when the application of the waterproofing product is intended to be done.					
	Contractor to provide a Letter of Compliance confirming that waterproofing has been applied as per Manufacturer's instructions and data sheet.					
	WATERPROOFING TO PIT WALLS					
	Waterproofing product to plastered walls, subject to approval by the Principal Agent prior to application.					
9	On plastered wall surfaces including 100mm overlap at the base slab	m2	222			
	IRONMONGERY					
	BATHROOM FITTINGS					
	Stainless steel bathroom fittings					
10	Free standing She Bin; manufactured from Grade 304 1,2/1,5mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity.	No	10			
	PLUMBING AND DRAINAGE (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					
	SANITARY FITTINGS					
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	Carried to Collection			R		
	Section 2 Bill No. 1 Sundry Builders Work					
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	Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:				
11	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	4		
	Sanitary fitting sundries				
12	Satin chrome thief proof toilet roll holder, PWD Sample 71, plugged to wall.	No	30		
13	Heavy-duty double-flap hinged toilet seat and cover.	No	30		
	SANITARY PLUMBING				
	PVC waste or vent pipes and fittings:				
14	50mm Waste pipe.	m	6		
	Extra for:				
15	50mm Bend.	No	8		
16	50mm Access bend.	No	4		
	WATER SUPPLIES				
	Polycop pipes:				
	Pipes shall be class 10.				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include for fixing to walls etc. casting in, building in or suspending not exceeding 1m below suspension level				
	Polycop pipes chased in walls:				
	Where pipes have been chased in walls, the price for making good of plaster and paint etc shall be deemed to be included in the description of pipe chased in walls.				
	Carried to Collection			R	
	Section 2 Bill No. 1 Sundry Builders Work				

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	Reducing fittings: Where fittings have reducing ends or branches they are described as 'reducing'. In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the Contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained.					
	Class 10 Polycop pipes:					
17	15mm Pipe.	m	25			
18	22mm Pipe.	m	30			
	Extra over polycop pipes for compression fittings:					
19	15mm Fittings.	No	18			
20	22mm Fittings.	No	6			
	Galvanised Steel Pipe					
21	22mm galvanised steel pipe	m	12			
	Taps, valves, etc.					
	Solid cast brass taps, valves, etc.					
22	Bib Tap or Similar approved	No	4			
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	Sundry Builders Work					

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Sundry Builders Work			
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Sundry Builders Work			

Item No			Quantity	Rate	Amount
	SECTION No. 3				
	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 WALKWAYS				
	Excavation not exceeding 2m deep				
1	80mm thick ramps and walkways	m2	14		
	Excavation not exceeding 2m deep				
2	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	3		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
3	Off site to a dumping site to be found by the Contractor.	m3	3		
	Filling supplied by the contractor under walkways				
4	G7 Base course material compacted to 98% Mod AASHTO density	m3	1		
5	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	1		
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	External Works				

	Rip and Re - compact insitu material on site compacted to 93% Mod. AASHTO density:				
6	Under floors,etc.	m2	6		
	Prescribed density tests on filling:				
7	In-situ dry density test.	No	4		
	Reinforced 25Mpa/19mm Concrete:				
8	Ramps, Landings, etc.	m3	1		
	Finishing top surfaces of concrete smooth with a wood float:				
9	Surface beds, slabs, etc to falls and currents.	m2	14		
	Test blocks:				
10	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
11	12mm Joints not exceeding 300mm high.	m	12		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
12	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	12		
	Fabric reinforcement:				
13	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	14		
	Waterproofing under Surface beds				
14	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	14		
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	Section 3 Bill No. 1 External Works				
	External Works				

	Approved brand of anti-termite soil poison applied by a Registered Pest Control Company and guaranteed against termite infestation for ten years:			
15	Treat filling under paving with 'Chlordane Heptachlor Aldrin' or equal approved.	2 6		
	Section 3 Bill No. 1 External Works		R	

	THE FOLLOWING IN ONE BRICK WALL				
	(GARDEN WALL)				
	Excavation in earth not exceeding 2m deep:				
16	Trenches.	m3	86		
	Extra over trench and hole excavations in earth for excavation in:				
17	Soft rock.	m3	26		
18	Hard rock.	m3	17		
19	Reinforced concrete	m3	17		
	Extra over all excavations for carting away:				
20	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	61		
	Risk of collapse of excavations:				
21	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	342		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
22	Backfilling to trenches, holes, etc.	m3	40		
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:				
23	Under footings.	m3	18		
	Compaction of surfaces				
24	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	82		
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	25 Mpa/19mm Concrete					
25	Strip footings.	m3	24			
	Test blocks:					
26	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4			
	Reinforcement (Provisional)					
27	High tensile steel reinforcement bars to structural concrete work.	t	2.40			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
28	One brick walls.	m2	73			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
29	One brick walls.	m2	122			
	Brickwork reinforcement:					
30	230mm Wide reinforcement built in horizontally.	m	489			
31	Ditto but in foundations.	m	978			
	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):					
32	One brickwall faced on both sides.	m2	342			
	Carried to Collection			R		
	Section 3					+
	Bill No. 1 External Works					
	LAGING WORK					
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	Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:			
33	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.	245		
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	STORMWATER CHANNELS				
	Excavation not exceeding 2m deep				
34	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	59		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
35	Off site to a dumping site to be found by the Contractor.	m3	59		
	Filling supplied by the contractor under channels				
36	G7 Base course material compacted to 98% Mod AASHTO density	m3	29		
37	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	29		
	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.				
38	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	163		
39	Extra for 700mm angle	No	18		
40	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		
	THE FOLLOWING IN DISABLED ACCESS				
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	SCREEN WALL				
	Excavation in earth not exceeding 2m deep:				
41	Trenches.	m3	4		
	Extra over all excavations for carting away:				
42	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	2		
	Risk of collapse of excavations:				
43	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	12		
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:				
44	Backfilling to trenches, holes, etc.	m3	4		
	Earth filling (G7 material) supplied by the contractor in layers not exceeding 150mm thick and compacted to 98% Mod AASHTO density:				
45	Under footings.	m3	1		
	Compaction of surfaces				
46	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	4		
	25 Mpa/19mm Concrete				
47	Strip footings.	m3	1		
	Test blocks:				
48	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
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	Reinforcement (Provisional)					
49	High tensile steel reinforcement bars to structural concrete work.	t	0.40			
	BRICKWORK IN FOUNDATIONS.					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):					
50	One brick walls.	m2	8			
	BRICKWORK IN SUPERSTRUCTURE					
	Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):					
51	One brick walls.	m2	6			
	Brickwork reinforcement:					
52	230mm Wide reinforcement built in horizontally.	m	36			
53	Ditto but in foundations.	m	18			
	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):					
54	One brickwall faced on both sides.	m2	6			
	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:					
55	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			
	ACCESS RAMPS					
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	Carried to Collection			R		
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	Bill No. 1 External Works					
	External World					

Ī	Excavation not exceeding 2m deep				
56	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	2		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
57	Off site to a dumping site to be found by the Contractor.	m3	2		
	Filling supplied by the contractor under floors, aprons, etc				
58	G7 Base course material compacted to 98% Mod AASHTO density	m3	7		
59	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3	7		
	Coarse river sand filling supplied by the contractor:				
60	Under floors etc.	m3	1		
	Compaction of surfaces:				
61	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	7		
	Prescribed density tests on filling:				
62	In-situ dry density test.	No	4		
	Reinforced 25Mpa/19mm Concrete:				
63	Ramps, Landings, etc.	m3	4		
	Finishing top surfaces of concrete smooth with a wood float:				
64	Surface beds, slabs, etc to falls and currents.	m2	7		
	Carried to Collection			R	
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	Test blocks:				
65	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
66	12mm Joints not exceeding 300mm high.	m	6		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc				
67	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	6		
	Fabric reinforcement:				
68	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	7		
	Waterproofing under Surface beds				
69	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	7		
	Carried to Collection	on		R	
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	THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.				
	STORMWATER APRONS				
	Excavation not exceeding 2m deep				
70	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	44		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
71	Off site to a dumping site to be found by the Contractor.	m3	44		
	Filling supplied by the contractor under floors, aprons, etc				
72	G7 Base course material compacted to 98% Mod AASHTO density	m3	22		
73	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	22		
	Coarse river sand filling supplied by the contractor:				
74	Under floors etc.	m3	7		
	Compaction of surfaces:				
75	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	145		
	Prescribed density tests on filling:				
76	In-situ dry density test.	No	4		
	Reinforced 25Mpa/19mm Concrete:				
77	Surface beds cast in panels on waterproofing.	m3	15		
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78	Edge thickening	m3	26			
	Finishing top surfaces of concrete smooth with a wood float:					
79	Surface beds, slabs, etc to falls and currents.	m2	145			
	Test blocks:					
80	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4			
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:					
81	12mm Joints not exceeding 300mm high.	m	145			
	Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc					
82	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	145			
	Fabric reinforcement:					
83	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	145			
	Waterproofing under Surface beds					
84	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	145			
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	STORMWATER CHANNELS				
	Excavation not exceeding 2m deep				
85	Reducing levels and depositing excavated material in prescribed stock piles on site.	m3	70		
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
86	Off site to a dumping site to be found by the Contractor.	m3	70		
	Filling supplied by the contractor under channels				
87	G7 Base course material compacted to 98% Mod AASHTO density	m3	35		
88	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	31		
	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.				
89	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	295		
90	Extra for 700mm angle	No	12		
91	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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	THE FOLLOWING IN SUB-SOIL DRAINAGE, ETC.					
	Site Clearance, ETC					
92	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	202			
	Excavation in earth not exceeding 2m deep:					
93	Trenches.	m3	720			
	Extra over trench and hole excavations in earth for excavation in:					
94	Soft rock.	m3	121			
95	Hard rock.	m3	81			
	Extra over all excavations for carting away:					
96	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	67			
	Risk of collapse of excavations:					
97	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	864			
98	Ditto, but from ground level to exceeding 1,5m.	m2	576			
	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:					
99	Backfilling to trenches, holes, etc.	m3	579			
	Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe, supplied by the contractor compacted to 98% Mod AASHTO density:					
100	19mm Stone.	m3	35			
	Carried to Collection			R		
	Section 3 Bill No. 1 External Works					
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	<u>Membrane</u>					
101	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2	432			
	Keeping excavations free of water:					
102	Keeping excavations free from mud and all water including subterranean sources.		Item			
	Compaction of surfaces					
103	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	202			
	Carried to Collection			R		
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	SOIL DRAINAGE				
	160mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.				
104	160mm uPVC pipe.	m	288		
	Extra for:				
105	160mm Tee.	No	4		
106	160mm Bend.	No	2		
107	160mm Y junction.	No	3		
	THE FOLLOWING IN SOAKAWAY				
	Site Clearance, Etc				
108	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2	4		
	Excavation in earth not exceeding 2m deep:				
109	Holes	m3	9		
	Extra over trench and hole excavations in earth for excavation in:				
110	Soft rock.	m3	3		
111	Hard rock.	m3	2		
	Extra over all excavations for carting away				
112	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	18		
	Risk of collapse of excavations				
113	Sides of trench and hole excavations exceeding 1,5m deep but not exceeding 3,0m deep	m2	36		
	Carried to Collection			R	
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	Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 90% Mod AASHTO density				
114	Backfilling to holes	m3	5		
	Earth filling with stone material supplied by the contractor:				
115	Stone (>53mm).	m2	3		
	<u>Membranes</u>				
116	"BidimGeotextile or equal approved, lined on all sides including the top and bottom faces.	m2	36		
	Keeping excavations free of water				
117	Keeping excavations free of all water other than subterranean water		Item		
	THE FOLLOWING IN HEADWALLS				
118	Excavation not exceeding 2m deep.	m3	3		
119	Risk of collapse not exceeding 1,5m deep	m2	2		
120	Keeping excavations free from water		Item		
121	Carting away surplus excavated material	m3	0.3		
122	150mm layer of G7 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
123	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3	1		
124	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3	1		
125	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m	5		
126	Weld Mesh Ref 193 in Concrete bottom slab.	m2	5		
127	One brick wall of 14 MPa NFX bricks.	m2	2		
	Carried to Collection			R	
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128	230mm Wide reinforcement built in horizontally.	m	13			
129	Plaster on brick walls.	m2	2			
130	Gabion mattress comprising of 20 to 30mm stones wrapped in A3 geotextile with voids filled with 1:3 cement/sand mortar.	m2	2			
	THE FOLLOWING IN SECURITY FENCING, ETC					
	Site clearance					
131	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	488			
	Straining wires, fencing and razor wire:					
132	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	1 952			
133	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m	1 464			
134	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). Posts for 1 800mm high security fence:	m	488			
405						
135	60mm Diameter galvanised steel intermediate fencing post 2400mm 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	195			
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	Carried to Collection Section 3			R		+
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136	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	6		
137	150mm Ditto as gate post 2 400mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No	12		
138	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No	32		
139	Form 12mm diameter hole through fence post.	No	32		
	Gates:				
140	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		
141	Two leafed vehicular swing gate. Size 5500mm x 1800mm high.	No	2		
	PADLOCKS				
142	Supply 50 mm "Viro" Padlocks and Keys (or equal approved)	No	3		
	Carried to Collection			R	
	Section 3 Bill No. 1 External Works				_

Section 3		
Bill No. 1		
External Works		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	116	
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Carried to Final Summary		R
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External Works		
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Item No		Quantity	Rate	Amount
1	SECTION No. 4			
	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:			
1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)	Item		22 500.00
2	Add: Mark-up		%	
3	Provide the sum of R105 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period	Item		105 000.00
4	Add: Mark-up		%	
	Carried to Final Summary		R	
	Section 4 Bill No. 1 Provisional Sums			

	FINAL SUMMARY]	1	
Section No		Page No		Amount
1	PRELIMINARIES	109		
2	BUILDING WORKS	115		
3	EXTERNAL WORKS (PROVISIONAL)	136		
4	PROVISIONAL SUMS	137		
	SUB-TOTAL		R	
	CONTINGENCIES			
	Allow five per cent (5%) of the above sub-total for contingencies to be used as directed and deducted in whole or in part if not required.		R	
	SUB-TOTAL		R	
	Add Value Added Tax at the rate of 15%		R	
	Carried to Form of Offer and Acceptance		R	