	Quantity	Rate	Amount
SECTION NO.1			
<u>BILL NO. 1</u>			
PRELIMINARIES			
NOTES			
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.			
Carried to Collection		R	
Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants			

 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 10.2 & 3 hereinafter is to be used for the adjustment of the preliminaries, 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 the tendered amount for the Preliminaries must be allocated to one or more of the following three categories where : "F" denotes an amount proportionate to time. 		
Carried to Collection	R	
Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants	K	
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	SECTION A: PRINCIPAL BUILDING AGREEMENT			
	<u>Definitions</u>			
1	Definitions and interpretation (Clause 1).			
	F: T:	Item		
	Objective and Preparation			
2	Offer and acceptance and performance (Clause 2).			
	F: T:	ltem		
3	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'.			
	F:	Item		
4	Design responsibility (Clause 4).			
т	F:V:	ltem		
5	Employer's agents (Clause 5).			
0	F:			
	· ····································	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			

6	Site representative (Clause 6).			
	Prior to the award of the contract, tenderers shall submit, upon request,the names of the proposed senior management personnel to be responsible for the supervision and administration of the works.			
	Prior to the date of commencement of the works the contractor shall nominate senior site personnel to whom instructions may be issued.			
	F: T:	ltem		
7	Compliance with regulation (Clause 7).			
	A Health and Safety Specification is attached for pricing of Health and Safety Bills of Quantities.			
	F: T:	Itom		
		Item		
8	Works risk (Clause 8).			
		Item		
9	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'.			
	F:	Item		
10	Works insurances (Clause 10).			
	F: T:			
		Item		
	Carried to Collection		R	
	Section No. 1		к 	╞
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			

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11	Liability insurances (Clause 11).			
	F:V:	T:		
			Item	
12	Effecting insurances (Clause 12).			
	F:V:	T:	Item	
13	No Clause (Clause 13).			
	F:V:	T:	ltem	
14	Security (Clause 14).			
	F:V:	T:		
			ltem	
	Execution			
15	Preparation for and execution of th	e works (Clause 15).		
	F:V:V	T:		
			Item	
16	Access to the works (Clause 16).			
	F:V:	T:		
			Item	
17	Contract instructions (Clause 17).			
	F:V:	T:		
			Item	
	Section No. 1	Carried to Collection		R
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Co	onsultants		
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18	Setting out of the works (Clause 18).				
	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.				
	F: T:				
		Item			
19	Assignment (Clause 19).				
	F: T:	Item			
20	Nominated subcontractors (Clause 20).				
	F: T:	Item			
21	Selected subcontractors (Clause 21).				
	F: T:	Item			
22	Employer's direct contractors (Clause 22).				
	F: T:	ltem			
23	Contractor's domestic subcontractors (Clause 23).				
	F: T:	ltem			
	Completion				
24	Practical completion (Clause 24).				
	F: T:				
		Item			
	Carried to Collection		R		
	Section No. 1				
	Bill No. 1 Preliminaries				
	Quantum Built & Environment Consultants				
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25	Works completion (Clause 25).		
	F: T:		
		Item	
26	Final completion (Clause 26).		
	F: T:		
		Item	
27	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 accummulate in order to attend to a comprehensive list of defects"		
	F: T:	Item	
28	Sectional completion (Clause 28).		
	F: T:		
		Item	
29	Revision for date of practical completion (Clause 29).		
	F: T:	Item	
30	Penalty for non-completion (Clause 30).		
	F:	Item	
	Carried to Collection Section No. 1		R
	Bill No. 1 Preliminaries		
	Quantum Built & Environment Consultants		

	Payment				
31	Interim payment to the contractor (Clause 31).				
	The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.3 shall be at the sole discretion of the principal agent and such inclusion shall only be considered upon the provision, by the contractor, of an approved guarantee issued by a registered commercial bank.				
	Where prices are submitted by the contractor or nominated/selected sub contractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the contract and notwithstanding the fact that such prices may be used in an interim payment certificate, there is to be no presumption of acceptance. Should the principal agent wish to accept any such prices prior to the issue of the final certificate, it will be in writing.				
	F: T:				
		Item			
32	Adjustment to the contract value (Clause 32).				
	F: T:	ltem			
33	Recovery of expense and loss (Clause 33).				
	F: T:	ltem			
34	Final account and final payment (Clause 34).				
	F: T:	ltem			
35	Payment to other parties (Clause 35).				
	F: T:	Item			
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	Section No. 1 Bill No. 1 Preliminaries				
	Quantum Built & Environment Consultants				
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	<u>Cancellation</u>			
36	Cancellation by Employer - Contractor's default (Clause 36).			
	F: T:	Item		
37	Cancellation by Employer - Loss and damage (Clause 37).			
	F: T:	Item		
38	Cancellation by Contractor - Employer's default (Clause 38).			
	F: T:	Item		
39	Cancellation - Cessation of the works (Clause 39).			
	F: T:	Item		
	Dispute (A40)			
40	Dispute settlement (Clause 40). F:	Item		
	State Provisions (A41)			
41	State Substitutions (Clause 41).			
	F: T:	Item		
42	<u>Schedule (A42)</u> Pre-Tender information (Clause 42).			
	F: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			

42.1.1 Employer:	The Mvula Trust, Eastern Cape Province		
Contact Person:	Mr. Takudzwa Kanda		
Postal Address:	67 Devereux Avenue, Vincent, East London, 5201		
Telephone:	043 726 2255.		
e-mail:	takudzwa@themvulatrust.org.za		
Domicilium:	67 Devereux Avenue, Vincent, East London, 5201		
42.1.2 Agent's Servi	ce: Project Manager		
Agent (1):	Mr. Takudzwa Kanda		
Postal Address:	67 Devereux Avenue, Vincent, East London, 5201		
Telephone:	043 726 2255.		
e-mail:	takudzwa@themvulatrust.org.za		
Domicilium:	67 Devereux Avenue, Vincent, East London, 5201		
42.2 CONTRACT	<u>DETAILS</u>		
42.2.1 Works Descri	ption:		
	nwater Drainage, and Sub-soil ing ablutions and walkways, Grade R ablutions.		
42.2.2 Site Description	on :		
The site is situated a	t the existing school premises.		
	Carried to Collection	R	
Section No. 1 Bill No. 1 Preliminaries	nvironment Consultants		

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	/ork or Installation by Direct Contractors: lone)		
42.2.4 T	his Agreement is for a State Contract: (Yes)		
	ayment will be made for materials and goods n site: (Yes)		
	Dispute resolution method (Mediation (in terms e 40) followed by litigation)		
42.2.5 C	ontract period: 4 Calendar months.		
th	eriod for the commencement of the works after e contractor takes possession of the site: 5 orking days.		
42.2.7 C	ompletions in sections are required: No		
pe	ntended date of practical completion and the enalty per calendar day for the works as a hole:		
D	ate: 4 Calendar months after contract commencement including builders holidays		
Р	enalty: R 1 000.00 per Calendar Day.		
se	tended dates of practical completion where action completion is required and the penalty ar calendar day for the works in sections: N/A		
42.2.9 L	aw applicable: Republic of South Africa		
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Section N Bill No. 1			
Preliminal Quantum	ies Built & Environment Consultants		
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42.3	INSURANCES			
42.3.1	Contract works insurance to be effected by the :			
	CONTRACTOR			
	For the amount of: CONTRACT SUM + 10%			
	With a deductible of: 5% of Insured amount.			
42.3.2	Supplementary insurance 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			
42.3.3	Public liability insurance to be effected by the			
	CONTRACTOR			
	For the amount of: R 10 000 000.00			
	With a deductible of: 5% of Insured amount.			
<u>42.4</u>	DOCUMENTS			
42.4.1	Waiver of the contractor's lien or right of continuing possession is required: (Yes)			
42.4.2	Number of construction document copies to be supplied free of charge: 1 (ONE)			
42.4.3 in	This document is drawn up in accordance with the ASAQS Standard System of Measuring Building Work: (YES) Seventh Edition, revised 2015.			
Section	Carried to Collection	R		
Bill No. Prelimi	1			
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42.4.4	Number of days for submission of priced documents: 5 working days from the Letter of Appointment.		
	Priced bills of quantities to be submitted with tender form of acceptance.		
	The tender document should be filled in throughout strictly with a black-inked pen.		
42.4.5	JBCC Engineering General Conditions are to be included in the documents: (No)		
42.4.6	The contract value to be adjusted using CPAP: (NO)		
42.4.7	Details of changes made to the provisions of JBCC standard documentation: (As stated)		
	Carried to Collection	R	
Section Bill No. Prelimit	1		
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	SECTION B: PRELIMINARIES			
	Definitions (B1):			
43	Definitions and interpretation (B1)			
	F: T:	ltem		
	Documents (B2):			
44	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.			
	These Bills of Quantities contain pages and annexures as indexed.			
	The items in these Bills of Quantities are to be read and priced in conjunction with, and the descriptions regarded as amplified by the Model Preambles for Trades as recommended and published by the Association of South African Quantity Surveyors, 2008 edition, and no claim arising from brevity of description of items fully described in the said Model Preambles for Trades will be entertained.			
	F: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants		K	

45	Provisional Bills of Quantities (B2.2)			Γ
	The Quantities are Provisional (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.			
	F: T:	Item		
46	Availability of construction documentation (B2.3)			
	F: T:	Item		
47	Interests of Agents (B2.4)			
	F: T:	Item		
48	Priced documents (B2.5)			
	F: T:	Item		
49	Tender submission (B2.6)			
	Notwithstanding anything contained in this clause tenders shall be valid for a period of 12 weeks from the closing date of tenders.			
	F: T:	ltem		
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	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			

	The Site (B3)			
50	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.			
	F: T:			
		Item		
51	Geotechnical investigation (B3.2)			
	(Please see attached Geotechnical Investigation Report Annexure B).			
	F:	Item		
52	Inspection of the Site (B3.3)			
	No claims for extras arising from the contractor having failed to comply with this clause will be entertained.			
	A compulsory, site clarification meeting will be held at the proposed site in line with the tender advert.			
	F: T:	ltem		
53	Existing premises occupied (B3.4) (Yes)			
	F: T:	Item		
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	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			

54	Previous work - dimensional ad	ccuracy (B3.5)		
	F:V:	T:	Item	
55	Previous work - defects (B3.6)			
55	F:V:	т	Item	
		I	nem	
56	Services - known (B3.7) Existing services and points of and will be pointed out on site			
	F:V:	T:	Item	
57	Services - known (B3.8)			
	F:V:	T:	Item	
58	Protection of trees (B3.9)			
	F:V:	T:		
			Item	
59	Articles of value (B3.10)			
	F:V:	T:	Item	
60	Inspection of adjoining properti			
	F:V:	T:	Item	
	Management of contract (B4)	2		
61	Management of the Works (B4	.1)		
	F:V:	T:	Item	
		Carried to Collection		R
	Section No. 1			
	Bill No. 1 Preliminaries			
	Quantum Built & Environmer	nt Consultants		
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62	Programme for the Works (B4.2)			
	Added to the provisions in (B4.2), the contractor shall ensure that he/she has suitable staff to programme the works using suitable and recognised programming software and the programme for the work is to be developed in sufficient detail indicating an activity network with early and late start dates, early and late finish dates and duration for each activity, further each activity is to be linked and the critical path indicated. Furthermore, the programming of the works shall include detailed documentation and information required schedule which indicates latest dates by which information is required in order to achieve programme dates.			
	F: T:	Item		
63	Progress meetings (B4.3)			
	F: T:	Item		
64	Technical meetings (B4.4)			
	F: T:	Item		
65	Labour and plant records (B4.5)			
	F: T:	Item		
	Samples and shop drawings (B5)			
66	Samples of materials (B5.1)			
	F: T:	Item		
67	Workmanship samples (B5.2)			
	F: T:	Item		
68	Shop drawings (B5.3)			
	F: T:	Item		
69	Compliance with manufacturer's instructions (B5.4)	Item		
	Carried to Collection Section No. 1 Bill No. 1		R	
	Preliminaries Quantum Built & Environment Consultants			
1	Quantum Built & Environment Consultants			

	Temporary works and plant (B6)			Τ
70	Deposits and fees (B6.1)			
10	E:	Item		
74		liem		
71	Enclosure of the works (B6.2)			
	No access to public shall be allowed on site at all times and strict access control shall be maintained during the construction period.			
	The contractor shall fully enclose the works by providing a 2m high diamond mesh fence or suitably similar and approved including access gates, posts. The fence shall be maintained throughout the contract and removed on completion of the contract.			
	F: T:	Item		
72	Advertising (B6.3)			
	F: T:	Item		
73	Plant, equipment, sheds and offices (B6.4)			
	F: T:	Item		
74	Office accommodation for meetings held on the site which shall be kept clean and fit for use at all times (B6.4.3).			
	F: T:	Item		
75	Main notice board (B6.5).			
	One notice board shall be provided by the Contractor			
	F: T:	Item		
76	Subcontractors notice board (B6.6).			
	F: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			╞
	Preliminaries			
	Quantum Built & Environment Consultants			

	Temporary Services (B7)		
77	Location (B7.1).		
	F: T:	Item	
78	Water (B7.2)		
	Alternative chosen: A		
	F: T:	Item	
79	Electricity (B7.3)		
	Alternative chosen: A		
	F: T:	Item	
80	Telecommunication equipment (B7.4)		
	F: T:	Item	
31	Ablution facilities (B7.5)		
	Alternative chosen: A		
	F: T:	Item	
	Prime cost amounts (B8)		
32	Responsibility for prime cost amounts (B8.1)		
	F: T:	Item	
	Attendance on Nominated/Selected Subcontractors (B9		
33	General Attendance (B9.1)		
	F: T:	Item	
34	Special Attendance (B9.2)		
	F: T:	Item	
	Carried to Collection Section No. 1		R
	Bill No. 1 Preliminaries		
	Quantum Built & Environment Consultants		

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86 Statutory taxes, duties and levies (B10.1) Item 87 Payment of Preliminaries (B10.2) Item 88 Adjustment of Preliminaries (B10.3) Item 88 Adjustment of Preliminaries (B10.4) Item 89 Payment certificate cash flow (B10.4) Item 89 Payment certificate (B11.1) Item 90 Protection of the Works (B11.1) Item 91 Protection of existing/sectionally occupied works (B11.2) Item 92 Site security (B11.3) Item 93 Notice before covering work (B11.4) Item 94 Notice before covering work (B11.4) Item 95 Kate before covering work (B11.4) Item 94 Notice before covering work (B11.4) Item		F: T:	lte	em
F:		Financial Aspects (B10)		
87 Payment of Preliminaries (B10.2) Item 88 Adjustment of Preliminaries (B10.3) Item 89 Payment certificate cash flow (B10.4) Item 89 Payment certificate cash flow (B10.4) Item 90 Protection of the Works (B11.1) Item 91 Protection of the Works (B11.1) Item 92 Protection/isolation of existing/sectionally occupied Item 91 Protection/isolation of existing/sectionally occupied Item 92 Site security (B11.3) Item 93 Notice before covering work (B11.4) Item 93 Notice before covering work (B11.4) Item	86	Statutory taxes, duties and levies (B10.1)		
Finance View Times (B10.3) Item Adjustment of Preliminaries (B10.3) Item Finance View Times (B10.4) Item Payment certificate cash flow (B10.4) Item General (B11) Times Times (B11.1) Protection of the Works (B11.1) Item Finance View Times (B12.2) Item Protection/isolation of existing/sectionally occupied works (B11.2) Item Finance View (B11.3) Finance View (B11.3) Finance View (B11.4) Finance View (B11.4) Finance View (B11.4)		F: T:	Ite	em
88 Adjustment of Preliminaries (B10.3) Item F:	87	Payment of Preliminaries (B10.2)		
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89 Payment certificate cash flow (B10.4) Image: constraint of the state of			lte	em
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90 Protection of the Works (B11.1) F:V:				
F:				
91 Protection/isolation of existing/sectionally occupied works (B11.2) Item 92 Site security (B11.3) Item F:V:	90			
91 Protection/isolation of existing/sectionally occupied works (B11.2) F:V:		F: T:		
works (B11.2) F:			lte	em
92 Site security (B11.3) F:V:	91		occupied	
F:		F: T:	Ite	em
93 Notice before covering work (B11.4) F:V: T: Item R	92	Site security (B11.3)		
93 Notice before covering work (B11.4) F:V: T: Item R		F: T:		
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Carried to Collection R	93	Notice before covering work (B11.4)		
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Section No. 1 Bill No. 1		Section No. 1 Bill No. 1		
Preliminaries Quantum Built & Environment Consultants		Preliminaries	nts	

94	Disturbance (B11.5)			
	F: T:	Item		
95	Environmental disturbance (B11.6)			
	F: T:	Item		
96	Works cleaning and clearing (B11.7)			
	F: T:	Item		
07) (lien		
97	Vermin (B11.8)	ltere		
	F: T:	Item		
98	Overhand work (B11.9)			
	F: T:	Item		
	SECTION C: SPECIFIC PRELIMINARIES			
	Section C: Specific Preliminaries:			
99	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.			
	F: T:	Item		
	Carried to Collection		R	 \vdash
	Section No. 1		р К	 ╞
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			

100	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.			
	F: T:	ltem		
101	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.			
	F: T:	Item		
	Carried to Collection Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants		R	

102	Overtime			
	Tenderers will be allowed to work two shifts in order to meet the completion date. Any costs associated with this requirement will be priced under this item			
	Should overtime be required to be worked for any other 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.			
	F: T:	ltem		
103	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.			
	F: T:	ltem		
104		lion		
104	Site 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.			
	F: T:	Item		
105	Non Cession of Monies			
	The Contractor shall NOT cede nor assign his rights or claims to any monies due or to become due under this contract.			
	F: T:	ltem		
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	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			

106	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.			
	F: T:	ltem		
107	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.			
	F: T:	ltem		
108	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.			
	F: T:	Item		
109	Method Statement			
	The Tenderer shall produce, when required to do so by the Principal Agent, a Method Statement outlining the methods of construction and labour and plant resources that he proposes to use in the execution of the Works. Any approval given or observation made by the Principal Agent shall not relieve the Contractor of his sole responsibility to adopt the methods of construction and to provide the labour and plant resources necessary for the due and proper timeous execution of the Works.			
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	Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants			

110	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.				
	F: T:	ltem			
111	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				
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	Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants		ĸ		
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112	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.			
	F: T:	Item		
113	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].			
	F: T:	Item		
114	Storage Facilities			
	The Contractor shall provide a Container for storage of materials.			
	F: T:	Item		
115	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 there from.			
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	Carried to Collection		R	
	Section No. 1 Bill No. 1 Braimingation			
	Preliminaries Quantum Built & Environment Consultants			
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Bill No. 1		
Preliminaries		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	1	
	2	
	3	
	4	
	5	
	6	
	7	
	8	
	9	
	10	
	11	
	12	
	13	
	14	
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	17	
	18	
	19	
Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		
Quantum Built & Environment Consultants		

Bill No. 1		
Preliminaries		
COLLECTION		
	Page No	Amount
Brought Forwa	ard	R
Total Brought Forward from Page No.	20	
	21	
	22	
	23	
	24	
	25	
	26	
	27	
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Carried to Final Summ Section No. 1	ary	R
Bill No. 1 Preliminaries		
Quantum Built & Environment Consultants		

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INU	SECTION NO.2			
	BUILDING WORK			
	BILL NO.1			
	IRONMONGERY			
	PREAMBLES			
	The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained			
	BATHROOM FITTINGS			
	Stainless steel bathroom fittings:			
1	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 20litre capacity.1750 No	2		
	Carried Ferward to Summary of Section No. 2		R	
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 1 Ironmongery Quantum Built & Environment Consultants		K	

ltem No		Quantity	Rate	Amount
	SECTION NO.2			
	BUILDING WORK			
	BILL NO.2			
	PLUMBING AND DRAINAGE			
	PREAMBLES			
	The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained			
	SANITARY FITTINGS			
	Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. Product and colour to Principal Agent's approval:			
1	VIP 450 Pit pedestal complete with integral flap four times plugged to floor with and including 6 x 75mm masonry anchors. No	4		
	Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 2 Plumbing and Drainage (Provisional) Quantum Built & Environment Consultants		R	

	SECTION SUMMARY - Building Works				
Bill No		Page No		Amount	
1	Ironmongery	30			
2	Plumbing and Drainage (Provisional)	31			
	Carried to Final Summary		R		
	Section No. 2 Quantum Built & Environment Consultants				

	Quantity	Rate	Amount
SECTION NO.3			
EXTERNAL WORKS			
BILL NO.1			
SOIL DRAINAGE (PROVISIONAL)			
PREAMBLES			
The Model Preambles for Trades (2008 edition), as published by the Association of South African Quantity Surveyors, shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items, fully described in the said Model Preambles, will be entertained			
EARTHWORKS			
Carting away of excavated material:			
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively, from stock piles situated on the building site.			
Carried to Collection		R	
Section No. 3 Bill No. 1 Soil Drainage (Provisional)			
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Excavations, Filling , etc:		
The Contractor shall notify the Principal Agent as soon as the excavations are ready to receive foundations and no building work may be started until the Principal Agent has approved the excavations.		
Over excavations taken beyond the levels and sizes shown or required to obtain a solid foundation shall be filled by the contractor, at his own expense, with 15MPa concrete.		
Should the Contractor consider that any of the excavations are more difficult in nature than excavations in "earth" he shall immediately notify the Quantity Surveyor in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly.		
The Contractor may use any method he chooses to excavate any class of material, but his chosen method of excavations shall not determine the classification of the material excavated.		
Blasting:		
No blasting will be allowed without the written permission of the Principal Agent.		
Should blasting be necessary, the Contractor shall take every precaution to protect the Works and persons, animals and property in the vicinity of the Works. The Contractor will be held responsible for any injury or damage caused by any blasting operations and shall make good such damage at his own expense.		
Testing:		
Prices for filling are to include for all necessary density tests in accordance with SANS 1200D.		
Carried to Collection	R	
Section No. 3 Bill No. 1 Soil Drainage (Provisional)		
Quantum Built & Environment Consultants		

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	Prescribed density tests:				
	NOTE: The Contractor is specifically referred to the SANS 1200 clause regarding the number of density tests required on the layer work, filling, etc. The tests as prescribed are deemed to be included in the appropriate rates for the layer work, filling, etc. and will not be paid for separately. The following density tests measured are over and above those normally required by SANS 1200 and is for the use of the Engineer only and will only be paid for if instructed in writing and approved as acceptable by the Engineer.				
	Site Clearance				
1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	298		
	Excavation in earth not exceeding 2m deep:				
2	Trenches.	m3	70		
	Extra over trench and hole excavations in earth for excavation in:				
3	Soft rock.	m3	7		
4	Hard rock.	m3	4		
	Back excavation of vertical sides of excavation in all materials other than rock for working space including backfilling compacted to 93% Mod. AASHTO maximum density:				
5	Exceeding 500mm and not exceeding 1500mm deep for erection and removal of formwork to strip footing, bases, ground beams, etc.	m2	196		
6	Exceeding 1500mm and not exceeding 3000mm deep for erection and removal of formwork to strip footing, bases, ground beams, etc.	m2	84		
	Carried to Collection Section No. 3 Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants			R	

	Risk of collapse of excavations:				
7	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	105		
8	Sides of trench and hole excavations exceeding 1,5m deep.	m2	246		
	Extra over all excavations for carting away:				
9	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	14		
	Keeping excavations free of water:				
10	Keeping excavations free of all water other than subterranean water.		Item		
	SOIL DRAINAGE				
	SUPPLEMENTARY PREAMBLES				
	uPVC pipes and fittings				
	Soil, waste and vent pipes and fittings shall be solvent weld jointed				
	Fixing of pipes				
	Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level				
	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"				
	Carried to Collection			R	\vdash
	Section No. 3 Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants				

	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 clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB : Earthworks (Pipe trenches) Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes). Unless otherwise described bedding of rigid pipes shall be class B bedding				
	SUBSOIL DRAINAGE				
11	Backfilling to drain trenches compacted to 90% Mod AASHTO density.	m3	56		
12	19mm Crushed stone encasing to pipes.	m3	14		
13	Geofabric filter blanket wrapped around stone encasing with 150mm side and 300mm end laps including stitching.	m2	140		
14	110mm Slotted uPVC agricultural pipes laid in stone encasing (Stone elsewhere).	m	88		
15	Extra for 110mm capped end.	No	6		
16	Extra for 110mm bend.	No	3		
17	Extra for 110mm junction.	No	4		
18	20mm Mesh galvanised wire netting stopper in end of 110mm pipe.	No	2		
	Carried to Collection			R	
	Section No. 3 Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants				

Section No. 3		
Bill No. 1		
Soil Drainage (Provisional)		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	33	
	34	
	35	
	36	
	37	
Carried Forward to Summary of Section No. 3		R
Section No. 3 Bill No. 1		
Soil Drainage (Provisional) Quantum Built & Environment Consultants		

SECTION NO.3				
EXTERNAL WORKS				
BILL NO.2				
STORMWATER, ACCESS & PARKING (PROVISIONAL)				
PREAMBLES				
The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles				
DEMOLITIONS ETC				
Breaking up and removing reinforced concrete including cutting off and removing reinforcement:				
100mm Thick surface bed.	m2	6		
EARTHWORKS				
Site Clearance:				
Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	m2	985		
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Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants				
	EXTERNAL WORKS BILL NO.2 STORMWATER, ACCESS & PARKING (PROVISIONAL) FREAMBLES The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles FUNCE DEMOLITIONS ETC Breaking up and removing reinforced concrete including cutting off and removing reinforcement: 100mm Thick surface bed. EARTHWORKS Site Clearance: Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site. Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional)	EXTERNAL WORKS BILL NO.2 STORMWATER, ACCESS & PARKING (PROVISIONAL) PREAMBLES The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles DEMOLITIONS ETC Breaking up and removing reinforced concrete including cutting off and removing reinforcement: 100mm Thick surface bed. m2 EARTHWORKS Site Clearance: Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site. m2 Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional)	EXTERNAL WORKS BILL NO.2 STORMWATER, ACCESS & PARKING PREAMBLES The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles DEMOLITIONS ETC Breaking up and removing reinforced concrete including cutting off and removing reinforcement: 100mm Thick surface bed. m2 6 EARTHWORKS Site Clearance: Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site. model Site IN No. 2 Site IN No. 3 Built No. 2 Stormwater Drainage (Provisional)	EXTERNAL WORKS BILL NO.2 STORMWATER, ACCESS & PARKING (PROVISIONAL) PREAMBLES The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be demended to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be ententained The following "Supplementary Preambles" are incorporated in this bill to satisfy the requirements of the project and shall take precedence over the provisions of the said Model Preambles DEMOLITIONS ETC Breaking up and removing reinforced concrete including cutting off and removing reinforcement: 100mm Thick surface bed. m2 6 LARTHWORKS m2 6 Site Clearance: Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site. m2 985 Carried to Collection R Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Freaking (Provisional) Freaking (Provisional)

Stripping average 150mm thick layer of top soil and stockpiling on site.					
	m2	137			
Excavation in earth not exceeding 2m deep:					
Reduced levels under floors.	m3	16			
Trenches.	m3	71			
Trenches and holes for thickening under surface beds etc.	m3	1			
Extra over trench and hole excavations in earth for excavation in:					
Soft rock.	m3	9			
Hard rock.	m3	4			
Risk of collapse of excavations:					
Sides of trench and hole excavations not exceeding 1,5m deep.	m2	257			
Extra over all excavations for carting away:					
Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	80			
Keeping excavations free of water:					
Keeping excavations free of all water other than subterranean water.		Item			
Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density:					
Backfilling to trenches, holes, etc.	m3	8			
Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R		
	Trenches. Trenches and holes for thickening under surface beds etc. Extra over trench and hole excavations in earth for excavation in: Soft rock. Hard rock. Risk of collapse of excavations Sides of trench and hole excavations not exceeding 1,5m deep. Extra over all excavations for carting away: Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. Keeping excavations free of all water other than subterranean water. Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density: Backfilling to trenches, holes, etc.	Trenchess m3 Trenchess and holes for thickening under surface beds m3 Extra over trench and hole excavations in earth for m3 Extra over trench and hole excavations in earth for m3 Soft rock. m3 Hard rock. m3 Risk of collapse of excavations: m3 Sides of trench and hole excavations not exceeding 1,5m deep. m2 Extra over all excavations for carting away: m3 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. m3 Keeping excavations free of water: m3 Keeping excavations free of all water other than subterranean water. m3 Backfilling to trenches, holes, etc. m3 Backfilling to trenches, holes, etc. m3 Section No. 3 Sill No. 2 Stormwater Drainage (Provisional) m3	Trenches. m3 71 Irrenches and holes for thickening under surface beds etc. m3 1 Extra over trench and hole excavations in earth for excavation in: m3 9 Soft rock. m3 9 Hard rock. m3 4 Risk of collapse of excavations: m2 257 Sides of trench and hole excavations not exceeding 1,5m deep. m2 257 Extra over all excavations for carting away: m3 80 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. m3 80 Keeping excavations free of all water other than subterranean water. Item 1tem Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density: 8 Backfilling to trenches, holes, etc. m3 8 Backfilling to trenches, holes, etc. m3 8 Stormwater Drainage (Provisional) Stormwater Drainage (Provisional) 1tem	Trenches. n3 71 Trenches and holes for thickening under surface beds etc. m3 1 Extra over trench and hole excavations in earth for excavation in: m3 1 Soft rock. m3 9 Hard rock. m3 4 Risk of collapse of excavations not exceeding 1,5m deep. m2 257 Extra over all excavations for carting away: 257 Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor. m3 80 Keeping excavations free of water: Item Item Keeping excavations free of all water other than subterranean water. Item Item Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 98% Mod AASHTO density: 8 Item Backfilling to trenches, holes, etc. m3 8 8 Surplus Aster Drainage (Provisional) R R R	Trenches. m3 71 Trenches and holes for thickening under surface beds etc. m3 1 Extra over trench and hole excavations in earth for excavation in: m3 9 Soft rock. m3 9 Hard rock. m3 4 Risk of collapse of excavations: m2 257 Sides of trench and hole excavations not exceeding 1,5m deep. m2 257 Extra over all excavations for carting away: m3 80 Surging excavations free of water: m3 80 Keeping excavations free of water: m3 80 Keeping excavations free of all water other than subterranean water. m3 80 Backfilling obtained from the excavations and/or prescribed stock piles on site compacted to 38% Mod AASHTO density: 8 8 Backfilling to trenches, holes, etc. m3 8 8 9 Section No. 3 Buil No. 2 8 9 9 Stormwater Drainage (Provisional). Extra to Collection M 8 9 Extra over all excavations free of all water other than subterranean water. 8 9 9 Backfilling to trenches, holes, etc.

	Earth filling selected and supplied by the contractor, deposited in layers not exceeding 150mm thick, watered and consolidated:				
13	Over site of G7 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.	m3	30		
14	Over site of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.	m3	5		
	Coarse river sand filling supplied by the contractor:				
15	Under floors etc.	m3	10		
	Compaction of surfaces:				
16	Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density.	m2	208		
	Prescribed density tests on filling:				
17	"Modified AASHTO Density" test.	No	41		
	STONE PITCHING				
	Stone pitching of approximately 150 to 200mm diameter river stones tightly packed including preparation of ground surface under:				
18	400mm Thick against sloping banks.	m2	5		
	SOIL POISONING.				
	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:				
19	Under floors etc. including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (Provisional).	m2	208		
20	To bottoms and sides of trenches etc.	m2	335		
	Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R	

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CONCRETE, FORMWORK AND REINFORCEMENT

SUPPLEMENTARY PREAMBLES

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)

Breeze concrete shall consist of twelve parts clean dry furnace ash, free from coal or other foreign matter, to one part cement (12:1), the ash graded up to particles which will pass a 16,5mm ring from a minimum which fails to pass a 4,75mm mesh. The finer materials from the screening are to be first mixed with the cement into a mortar and the ash added afterwards and thoroughly incorporated

Formwork

Description 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

Formworks to soffits of solid etc shall be deemed to be slabs not exceeding 250mm thick unless otherwise described

Carried to Collection

Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants

	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/19mm concrete				
21	Strip footings.	m3	16		
	REINFORCED CONCRETE				
	20MPa/19mm concrete				
22	Stormwater outlet slab including beams and inverted beams.	m3	2		
23	Aprons cast in panels on waterproofing.	m3	6		
	25MPa/19mm concrete				
24	Slabs including beams and inverted beams.	m3	0.2		
25	V-channels cast in panels on waterproofing.	m3	10		
26	Ditched channel.	m3	5		
	Test blocks:				
27	Set of three concrete test cubes size 150 x 150 x 150 x 150mm overall including testing (Provisional).	Sets	6		
	Concrete Sundries:				
	Finishing top surfaces of concrete smooth with a wood float:				
28	Surface beds, slabs, etc. to falls and currents.	m2	211		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants				

	SMOOTH FORMWORK (DEGREE OF ACCURACY I)				
	Smooth formwork to sides:				
29	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	252		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to soffits:				
30	Slabs not exceeding 250mm thick, propped up not exceeding 1.5m high.	m2	3		
	Movement Joints, Etc.:				
31	Expansion joint not exceeding 300mm high or wide formed of one layer 10mm thick bitumen impregnated softboard joint filler set between vertical concrete or brick surfaces.	m	26		
	JOINT SEALANTS ETC.				
	Two part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc including raking out expansion joint filler if necessary:				
32	In 10 x 10mm expansion joints vertically between bricks skins not exceeding 300mm deep.	m	51		
	REINFORCEMENT				
	Fabric reinforcement:				
33	Type S245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	192		
34	Type 517 fabric reinforcement in concrete surface beds, slabs, etc.	m2	32		
	MASONRY				
	Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R	

	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.				
	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.				
	All pointing to be approved by the Architect via sample panel which is to be built on site.				
	Sample panels				
35	The contractor to build a sample panel size 1.5 x 1m high detailing quality of facebrick work to the approval of Architect at contractors cost.		Item		
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar:				
36	Half brick walls.	m2	1		
37	One brick walls.	m2	127		
38	220 x 110 x 75mm Thick Hard burnt brick with half of its thickness bedded in concrete in stormwater outlet (Concrete elsewhere).	No	33		
	BRICKWORK SUNDRIES				
	Carried to Collection			R	
	Section No. 3 Bill No. 2				
	Stormwater Drainage (Provisional) Quantum Built & Environment Consultants				

	Brickwork reinforcement:				
39	75mm Wide reinforcement built in horizontally.	m	7		
40	150mm Wide reinforcement built in horizontally.	m	1 500		
	FACE BRICKWORK				
	Facebricks Prime Cost Of R 6 500.00 Per Thousand Excluding VAT Delivered To The Site Pointed With Square Recessed Horizontal And Vertical Joints:				
41	Extra over brickwork for face brickwork.	m2	147		
	Brick-on-edge header course copings, sills, etc of face bricks, pointed with flush joints on all exposed faces:				
42	Extra over brickwork for brick-on-edge header course band.	m	216		
	WATERPROOFING				
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer of 250 micron Consol Plastics Gunplas USB Green waterproof sheeting sealed at laps with Gunplas Pressure Sensitive Tape:				
43	Under surface beds.	m2	171		
	Carried to Collection	I		R	
	Section No. 3 Bill No. 2				
	Stormwater Drainage (Provisional) Quantum Built & Environment Consultants				

Section No. 3		
Bill No. 2		
Stormwater Drainage (Provisional)		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	39	
	40	
	41	
	42	
	43	
	44	
	45	
	46	
Carried Forward to Summary of Section No. 3		R
Section No. 3		
Bill No. 2 Stormwater Drainage (Provisional)		
Quantum Built & Environment Consultants		

ltem No		Quantit	/ Rate	Amount
-	SECTION NO.3			
	EXTERNAL WORKS			
	BILL NO.3			
	FENCING, ETC			
	PREAMBLES			
	The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained The following			
	STORMWATER DRAINAGE			
	EARTHWORKS			
	Site Clearance:			
1	Allow for clearing the site of all shrubs and trees not exceeding 200mm girth, rubbish, debris, vegetation, drains, etc, that may be encountered and roughly level site.	n2 29	7	
	EXCAVATION OTHER THAN BULK.			
	Excavation in all materials other than rock not exceeding 2m deep:			
2	Holes. r	n3 1	1	
	Carried to Collection Section No. 3		R	
	Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants			

	Risk of collapse of excavations other than bulk:				
3	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	69		
	CARTING AWAY				
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
4	Off site to a dumping site to be found by the Contractor.	m3	11		
	KEEPING EXCAVATIONS FREE OF WATER				
	Keeping excavations free of water:				
5	Keeping excavations free of all water other than subterranean water.		Item		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES				
	15 Mpa/19mm Mass Concrete:				
6	Bases.	m3	11		
	TEST BLOCKS				
	Test blocks:				
7	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional).	Sets	2		
	FENCING				
	GALVANISED STEEL SECURITY FENCING				
	Carried to Collection Section No. 3 Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants			R	

	Hot dipped galvanised posts, stays, bolts, etc., and				
	Aperture type welded mesh security fencing:				
8	1800mm High Security fence, Type 50 x 50mm Aperture welded mesh, comprising of 2mm diameter galvanised welded vertical and horizontal wires, with vertical wires secured with hogring clips applied with hogring pliers at 600mm centres on straining wires (straining wires elsewhere measured) including drilling holes through posts.	m	99		
9	4mm Diameter galvanised straining wires secured to fencing posts with doubled 2mm 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 and the other end to straining bolts (elsewhere measured). (4No.)	m	396		
10	500mm Diameter flat wrap comprising of galvanised razor barbed tape wire fixed vertically to and including two rows of double stranded barb wire to top of security fence and secured to barbed and straining wire (straining wire elsewhere) with and including 2.5mm diameter galvanised binding wire at 300mm centres.	m	99		
11	125mm Diameter x 3mm post, 2700mm long, with top end welded on flat cap and bottom end welded on 150 x 150 x 5mm base plate, cast 650mm deep in concrete base (Concrete base elsewhere).	No	17		
12	100mm Diameter x 3mm raking strut, 2750mm long, with top end welded on flange, bolted to steel and bottom end welded on 150 x 150 x 5mm base plate, cast 450mm deep in concrete base (Concrete base elsewhere).	No	33		
13	75mm Diameter x 3mm thick dropper post, 2400mm long, with top end welded on flat cap, including necessary excavation, backfilling, cartaway, etc., complete.	No	33		
14	M16 Carriage bolt.	No	33		
	Carried to Collection Section No. 3 Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants			R	

	Hot Dipped Galvanised Gates, including bolts, hinges, etc.:					
15	Single gate size 900mm wide x 1800mm high, comprising of 50mm diameter x 2,2mm wall thickness hollow section frame (frame comprising of frame suround and one horrizontal intermidiate rail), including infill of 50 x 50mm Aperture type meshwire of 2mm diameter galvanised welded vertical and horizontal					
	wires.	No	1			
16	20mm x 300mm Long Barrel bolt.	No	1			
17	M24 Eye bolt, 300mm long.	No	2			
	Carried to Collection Section No. 3			R		
	Bill No. 3 Fencing and Railing					
	Quantum Built & Environment Consultants					
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Section No. 3		
Bill No. 3		
Fencing and Railing		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	48	
	49	
	50	
	51	
Carried Forward to Summary of Section No. 3		R
Section No. 3 Bill No. 3		
Fencing and Railing		
Quantum Built & Environment Consultants		

	SECTION SUMMARY - External Works	Bassa			
Bill No		Page No		Amount	
1	Soil Drainage (Provisional)	38			
2	Stormwater Drainage (Provisional)	47			
3	Fencing and Railing	52			·
	Carried to Final Summary		R		
	Section No. 3 Quantum Built & Environment Consultants				

ltem No			Quantity	Rate	Amount
	SECTION NO.4				
	<u>BILL NO. 1</u>				
	OCCUPATIONAL HEALTH AND SAFETY				
	HEALTH AND SAFETY REQUIREMENTS				
	Occupational Health and Safety Act 85 of 1993 , other applicable legislation including the Construction Regulations, 2014:				
1	Prepare and Compile Health and Safety plan as per Site Health and Safety Specifications. (<i>Once-off</i>)		ltem		
2	Allow for the preparation of site specific health and safety file. (<i>Once-off</i>)		ltem		
3	Personal protective clothing and equipment (PPE). (<i>Per employee</i>)	No	15		
4	Health and Safety training. (Once-off training)	No	5		
5	Pre-employment, annual and exit medical examination of fitness. (<i>Annually</i>)	No	15		
6	Signage, information display and barricading excavations and storage areas. (<i>Once-off</i>)	No	30		
7	First aid boxes. (Once-off)	No	2		
8	Provision of a full time safety officer (Fully registered with SACPCMP as a CHSO). (<i>Per month</i>)	No	4		
9	Waste Management and rubble removal. (Per month)	No	4		
	Carried to Final Summary Section No. 4 Bill No. 1 Occupational Health and Safety Quantum Built & Environment Consultants			R	

	Quantity	Rate	Amount
BILL No.1			
PROVISIONAL SUMS ETC			
PREAMBLES			
The Tenderer is referred to the relevant Clauses in the separate document Model Preambles for Trades (2008 Edition) and to the Supplementary Preambles which are incorporated in this Bill.			
SUPPLEMENTARY PREAMBLES			
Work executed by Selected Sub-contractors			
Work listed under the heading "SELECTED SUB- CONTRACTORS WORK" will commence during the execution of this contract and the contractor shall allow free access to the site for these selected contractors. The contractor shall prepare a programme in conjunction with these selected sub-contractors in order to complete the work successfully. Payment will not be made to them via the contractor. The estimated values of these contracts are listed to enable the contractor to determine profit and attendances, if required.			
<u>General:</u>			
All prime cost amounts and provisional sums are for further amplification for delivery to site of all articles concerned.			
<u>Preliminaries</u>			
The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"			
Carried to Collection Section No. 5		R	
Bill No. 1 Provisional Sums Quantum Built & Environment Consultants			
-55-			

	DESLUDGING TO EXISTING PIT ABLUTION			
1	Provide the sum of R120 000.00 (One Hundred and Twenty Thousand Rand) for the desludging of pit toilets.	ltem		120 000.00
2	Profit on above item.	Item		
3	Attendance on Ditto.	Item		
	COMMUNITY LIAISION OFFICER			
4	Provide the sum of R30 000.00 (Thirty Thousand Rand) 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 of the project (4 months)	Item		30 000.00
5	Profit on above item.	Item		
6	Attendance on Ditto.	Item		
	BOLLARDS			
7	Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for bollards.	ltem		25 000.00
8	Profit on above item.	Item		
9	Attendance on Ditto.	Item		
	BUDGETARY ALLOWANCES			
	<u>The following budgetary allowances are for work to</u> <u>be executed at rates in the bills of quantities or to</u> <u>be agreed by the Principal agent</u>			
10	Budgetary allowance of R50 000.00 (Fifty Thousand Rand) for additional alterations and/or demolition work to be used strictly as directed by the Principal Agent.	Item		50 000.00
11	Budgetory allowance of R50 000.00 (Fifty Thousand			
	Rand) for landscaping to be used for ground shaping where necessary as directed by the Principal Agent.	Item		50 000.00
	Carried to Collection		R	
	Section No. 5 Bill No. 1		K	
	Provisional Sums Quantum Built & Environment Consultants			

Section No. 5				. <u> </u>
Bill No. 1				1
Provisional Sums				
COLLECTION				
	Page		Amount	1
Total Brought Forward from Page No.	No 55			1
Total blought i ofward from Fage No.	56			
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Carried to Final Summary		R		
Section No. 5 Bill No. 1				
Provisional Sums Quantum Built & Environment Consultants				

	FINAL SUMMARY			
Section No		Page No		Amount
1	Preliminaries	29		
2	Building Works	32		
3	External Works	53		
4	Occupational Health and Safety	54		
5	Provisional Sums	57		
	Sub Total		R	
	ADD: Contingencies @ 5%		R	
	Sub Total		R	
	VAT @ 15%		R	
	Carried to Form of Tender		R	
	Quantum Built & Environment Consultants			