		Quantity	Rate	Amount
SECTIC	<u>N NO.1</u>			
BILL N	<u>D. 1</u>			
PRELIN	IINARIES			
NOTES				
Series Ec Joint Buil	incipal Building Agreement shall be the JBCC lition 4.1, March 2005 as recommended by the ding Contract Committee and as amended by er Enquiry.			
2005 for u recomme Committe	eliminaries shall be JBCC Series 2000, May use with the Principal Building Agreement as nded by the Joint Building Contracts e and as amended by this Tender Enquiry leemed to be incorporated herein.			
documen clause the	ers are referred to the above mentioned ts for the full intent and meaning of each ereof. These clauses are hereinafter referred to number and heading only.			
entirely a correctior far as pos	standard clauses or alternatives are not oplicable to this contract, such modifications, as or additions as are necessary, are given as asible under each relevant clause heading. I Preliminary clauses are contained in Section			
of errors descriptio read in co	m whatsoever shall be entertained in respect or omissions in pricing due to brevity of ns of items which are fully described when onjunction with the relevant clauses of the said Building Agreement, Preliminaries and s.			
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Section N Bill No. 1 Prelimina <b>Quantum</b>				

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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: T:	ltem		
4	Design responsibility (Clause 4).			
	F: T:	ltem		
5	Employer's agents (Clause 5).			
	F: T:	ltem		
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	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:	Item		
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		
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	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			

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11	Liability insurances (Clause 11).		
	F: T:		
		Item	
12	Effecting insurances (Clause 12).		
	F: T:	Item	
13	No Clause (Clause 13).		
	F: T:	Item	
14	Security (Clause 14).		
	F: T:	Item	
		nem	
	Execution		
15	Preparation for and execution of the works (Clause	15).	
	F: T:		
		Item	
16	Access to the works (Clause 16).		
	F: T:		
		Item	
17	Contract instructions (Clause 17).		
	F: T:		
		Item	
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	Preliminaries Quantum Built & Environment Consultants		

18	Setting out of the works (Clause 18).			$\left[ \right]$
	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:	ltem		
23	Contractor's domestic subcontractors (Clause 23).			
	F: T:	ltem		
	<u>Completion</u>			
24	Practical completion (Clause 24).			
	F: T:			
		Item		
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	Section No. 1 Bill No. 1			$\square$
	Preliminaries Quantum Built & Environment Consultants			

25	Works completion (Clause 25).			
	F: T:			
		Item		
26	Final completion (Clause 26).			
-	F:			
	ΓΙ	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: T:	Item		
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	Section No. 1 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:				
		ltem			
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:	Item			
35	Payment to other parties (Clause 35).				
	F: T:	Item			
	Carried to Collection Section No. 1		R		+
	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: T:	ltem		
	State Provisions (A41)			
41	State Substitutions (Clause 41).			
	F: T:	ltem		
	Schedule (A42)			
42	Pre-Tender information (Clause 42).			
	F: T:	Item		
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	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			

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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 Servio	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	DETAILS		
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.		
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42.2.3	Work or I (None)	Installation by Direct Contractors:		
42.2.4	This Agre	eement is for a State Contract : (Yes)		
	Payment on site: (	will be made for materials and goods Yes)		
of cla		e resolution method (Mediation (in terms lowed by litigation)		
42.2.5	Contract	period: 4 Calendar months.		
42.2.6		r the commencement of the works after actor takes possession of the site: 5 lays.		
42.2.7	Completi	ons in sections are required: No		
42.2.8		date of practical completion and the er calendar day for the works as a		
		4 Calendar months after contract commencement including builders holidays		
	Penalty:	R 1 000.00 per Calendar Day.		
	section co	dates of practical completion where ompletion is required and the penalty dar day for the works in sections: N/A		
42.2.9	Law appl	icable: Republic of South Africa		
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<u>42.3</u>	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.		
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Section Bill No.	n No. 1		
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2	12.4.4	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.		
4	42.4.5	JBCC Engineering General Conditions are to be included in the documents: (No)		
4	42.4.6	The contract value to be adjusted using CPAP: (NO)		
4	42.4.7	Details of changes made to the provisions of JBCC standard documentation: (As stated)		
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	SECTION B: PRELIMINARIES				
	Definitions (B1):				
43	Definitions and interpretation (B1)				
	F: T:	Item			
	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			
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	Carried to Collection Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants		R		

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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	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: T:	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:	Item		
50		lien		
53	Existing premises occupied (B3.4) (Yes)	lt		
	F: T:	Item		
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	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			

54	Previous work - dimensional accuracy (	B3.5)	
	F: T	Ite	m
55	Previous work - defects (B3.6)		
	F: T	: Ite	m
56	Services - known (B3.7) Existing services and points of connect and will be pointed out on site by the P	on are known incipal Agent.	
	F: T	: Ite	m
57	Services - known (B3.8)		
	F: T	: Ite	m
58	Protection of trees (B3.9)		
	F: T		
		Ite	m l
59	Articles of value (B3.10)		
	F: T	: Ite	m
60	Inspection of adjoining properties (B3.1	1)	
	F: T	: Ite	m
	Management of contract (B4)		
61	Management of the Works (B4.1)		
	F: T	: Ite	m
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	Section No. 1 Bill No. 1 Preliminaries		
	Quantum Built & Environment Consu	ltants	

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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:	ltem		
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:	ltem		
69	Compliance with manufacturer's instructions (B5.4)	ltem		
	Carried to Collection Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants		R	

	Temporary works and plant (B6)			Γ
70	Deposits and fees (B6.1)			
	F:	Item		
71				
11	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:	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	
81	Ablution facilities (B7.5)		
	Alternative chosen: A		
	F: T:	Item	
	Prime cost amounts (B8)		
82	Responsibility for prime cost amounts (B8.1)		
	F: T:	Item	
		nem	
	Attendance on Nominated/Selected Subcontractors (B9)		
83	General Attendance (B9.1)		
	F: T:	Item	
84	Special Attendance (B9.2)		
	F: T:	Item	
	Carried to Collection	on l	R
	Section No. 1 Bill No. 1		
	Preliminaries Quantum Built & Environment Consultants		

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Financial Aspects (B10)       Image: Second Se	85			
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)		
F:		F: T:	Ite	em
F:	88	Adjustment of Preliminaries (B10.3)		
89       Payment certificate cash flow (B10.4)       Image: constraint of the state of			lte	em
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General (B11)       Protection of the Works (B11.1)         F:V:	00		lte	am
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:		
F:V:         T:           Item         Item           Carried to Collection         R			lte	em
Carried to Collection R	93	Notice before covering work (B11.4)		
Carried to Collection R		F: T:		
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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:	ltem		
96	Works cleaning and clearing (B11.7)			
	F: T:	ltem		
97	Vermin (B11.8)			
51	F:	ltem		
00		nom		
98	Overhand work (B11.9) F:T:	ltem		
		nom		
	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:	ltem		
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	Section No. 1 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.			
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	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants			

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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:	Item		
		item		
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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	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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	Carried to Collection Section No. 1		R	
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			
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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:	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.			
	F: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			
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Bill No. 1		
Preliminaries		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	1	11
	2	
	3	
	4	
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	7	
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Preliminaries Quantum Built & Environment Consultants		

Bill No. 1		
Preliminaries		
COLLECTION		
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Brought Forward		R
Total Brought Forward from Page No.	20	
	21	
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Carried to Final Summary		R
Section No. 1 Bill No. 1		
Preliminaries Quantum Built & Environment Consultants		

em O			Quantity	Rate	Amount
	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 Forward to Summary of Section No. 2			R	
	Section No. 2 Bill No. 1 Ironmongery				
	Quantum Built & Environment Consultants				

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	3		
	Corried Ferward to Summary of Section No. 2		Б	
	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			<u></u>	
	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) <b>Quantum Built &amp; Environment Consultants</b>			

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		

	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	346		
	Excavation in earth not exceeding 2m deep:				
2	Trenches.	m3	81		
	Extra over trench and hole excavations in earth for excavation in:				
3	Soft rock.	m3	8		
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	228		
6	Exceeding 1500mm and not exceeding 3000mm deep for erection and removal of formwork to strip footing, bases, ground beams, etc.	m2	98		
	Carried to Collection Section No. 3			R	╞
	Bill No. 1 Soil Drainage (Provisional) Quantum Built & Environment Consultants				

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	Risk of collapse of excavations:				
7	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	122		
8	Sides of trench and hole excavations exceeding 1,5m deep.	m2	285		
	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	16		
	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	
	Section No. 3 Bill No. 1 Sell Drainage (Provisional)				
	Soil Drainage (Provisional) Quantum Built & Environment Consultants				
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	Laying, backfilling, bedding, etc. of pipes				
	Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions				
	Where no manufacturers' instructions exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of each of the following: SABS 1200 L : Medium-pressure pipelines LD : Sewers LE : Stormwater drainage Pipe trenches etc shall be backfilled in accordance with 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	65		
12	19mm Crushed stone encasing to pipes.	m3	16		
13	Geofabric filter blanket wrapped around stone encasing with 150mm side and 300mm end laps including stitching.	m2	163		
14	110mm Slotted uPVC agricultural pipes laid in stone encasing (Stone elsewhere).	m	102		
15	Extra for 110mm capped end.	No	5		
16	Extra for 110mm bend.	No	5		
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) <b>Quantum Built &amp; Environment Consultants</b>				

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		

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	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				
1	including cutting off and removing reinforcement: 100mm Thick surface bed.	m2	10		
	EARTHWORKS				
	Site Clearance:				
2	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	665		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) <b>Quantum Built &amp; Environment Consultants</b>				

3	Stripping average 150mm thick layer of top soil and stockpiling on site.	m2	65		
	Excavation in earth not exceeding 2m deep:				
4	Reduced levels under floors.	m3	7		
5	Trenches.	m3	46		
6	Trenches and holes for thickening under surface beds etc.	m3	2		
	Extra over trench and hole excavations in earth for excavation in:				
7	Soft rock.	m3	5		
8	Hard rock.	m3	3		
	Risk of collapse of excavations:				
9	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	154		
	Extra over all excavations for carting away:				
10	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.	m3	49		
	Keeping excavations free of water:				
11	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:				
12	Backfilling to trenches, holes, etc.	m3	4		
	Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R	

Earth filling selected and supplied by the contractor, deposited in layers not exceeding 150mm thick, watered and consolidated:					
Over site of G7 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.	m3	24			
Over site of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.	m3	2			
Coarse river sand filling supplied by the contractor:					
Under floors etc.	m3	8			
Compaction of surfaces:					
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	168			
Prescribed density tests on filling:					
"Modified AASHTO Density" test.	No	37			
STONE PITCHING					
Stone pitching of approximately 150 to 200mm diameter river stones tightly packed including preparation of ground surface under:					
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:					
Under floors etc. including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (Provisional).	m2	168			
To bottoms and sides of trenches etc.	m2	193			
Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R		
	Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated: Over site of G7 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density. Coarse river sand filling supplied by the contractor: Under floors etc. Compaction of surfaces: Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density. Prescribed density tests on filling: "Modified AASHTO Density" test. STONE PITCHING Stone pitching of approximately 150 to 200mm diameter river stones tightly packed including preparation of ground surface under: 400mm Thick against sloping banks. SOIL POISONING. Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years: Under floors etc. including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming (Provisional). To bottoms and sides of trenches etc.	contractor, deposited in layers not exceeding 150mm thick, watered and consolidated:       m3         Over site of G7 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.       m3         Over site of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.       m3         Coarse river sand filling supplied by the contractor:       m3         Under floors etc.       m3         Compaction of surfaces:       m3         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         Prescribed density tests on filling:       m3         "Modified AASHTO Density" test.       No         STONE PITCHING       m2         Stone pitching of approximately 150 to 200mm diameter river stones tightly packed including preparation of ground surface under:       m2         400mm Thick against sloping banks.       m2         SOIL POISONING.       m2         Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against foundation walls etc. filling in furrows and ramming (Provisional).       m2         To bottoms and sides of trenches etc.       m2         Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional).       m2	contractor. deposited in layers not exceeding 150mm thick, watered and consolidated:Image: Section No. 3 Bill No. 2Over site of G7 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.m324Over site of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density.m322Coarse river sand filling supplied by the contractor:m38Under floors etc.m38Compaction of surfaces:m3168Rip and scarify top surface of existing formation to a depth of 150mm and compact to not less than 100% of Modified AASHTO density.m2Prescribed density tests on filling:m2168Prescribed density tests on filling:m337STONE PITCHING55Soll POISONING.m25Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termic floundain of ren years:168Under floors etc. including forming and poisoning shallow furrows against foundation walls etc. filling in furrows and ramming (Provisional).m2168To bottoms and sides of trenches etc.m2193168Carried to CollectionS193168	contractor, deposited in layers not exceeding       150mm thick, watered and consolidated:         Over site of G7 material in accordance with SABS 1200       m3       24         Ower site of G5 material in accordance with SABS 1200       m3       2         DM compacted to 98% Mod AASHTO density.       m3       2         Coarse river sand filling supplied by the contractor:       m3       8         Under floors etc.       m3       8         Compaction of surfaces:       m3       8         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       168         Prescribed density tests on filling:       m2       168         Prescribed density tests on filling:       m4       168         Stone pitching of approximately 150 to 200mm diameter river stones tightly packed including preparation of ground surface under:       400mm Thick against stoping 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:       168         Under floors etc. including forming and poisoning shallow furrows against foundation walls etc, filling in turrows and ramming (Provisional).       m2       168         To bottoms and sides of trenches etc.       m2       168       168	contractor. deposited in layers not exceeding       Image: Consolidated:         Stomm thick, watered and consolidated:       m3       24         Over sile of G7 material in accordance with SABS 1200       m3       24         Over sile of G5 material in accordance with SABS 1200       m3       24         Over sile of G5 material in accordance with SABS 1200       m3       2         Correse river sand filling supplied by the contractor:       m3       8         Under floors etc.       m3       8         Compaction of surfaces:       m2       168         Prescribed density tests on filling:       m2       168         Prescribed density tests on filling:       m2       168         Young Thick against sloping banks.       m2       5         Stone pitching of approximately 150 to 200mm diameter river stones tightly packed including preparation of around surface under:       400mm Thick against sloping banks.       m2       5         Soll_ POISONING.       m2       168       m3       168       m4         Approved brand of anti-termite soll poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:       168       168       168       168         To bottoms and sides of trenches etc.       m2       168       168       168       168 <td< td=""></td<>

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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	8		
	REINFORCED CONCRETE				
	20MPa/19mm concrete				
22	Stormwater outlet slab including beams and inverted				
22	beams.	m3	2		
23	Aprons cast in panels on waterproofing.	m3	9		
	25MPa/19mm concrete				
24	Slabs including beams and inverted beams.	m3	0.4		
25	V-channels cast in panels on waterproofing.	m3	6		
26	Ditched channel.	m3	2		
	Test blocks:				
27	Set of three concrete test cubes size 150 x 150 x 150 x 150mm overall including testing (Provisional).	Sets	4		
	Concrete Sundries:				
	Finishing top surfaces of concrete smooth with a wood float:				
28	Surface beds, slabs, etc. to falls and currents.	m2	173		
	Carried to Collection			R	
	Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) <b>Quantum Built &amp; Environment Consultants</b>				

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	SMOOTH FORMWORK (DEGREE OF ACCURACY I)				
	Smooth formwork to sides:				
29	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	216		
	ROUGH FORMWORK (DEGREE OF ACCURACY II)				
	Rough formwork to soffits:				
30	Slabs not exceeding 250mm thick, propped up not exceeding 1.5m high.	m2	5		
	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	13		
	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	26		
	REINFORCEMENT				
	Fabric reinforcement:				
33	Type S245 fabric reinforcement in concrete surface beds, slabs, etc.	m2	181		
34	Type 517 fabric reinforcement in concrete surface beds, slabs, etc.	m2	10		
	MASONRY				
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	Carried to Collection Section No. 3			R	+
	Bill No. 2 Stormwater Drainage (Provisional)				
	Quantum Built & Environment Consultants				

	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.		ltem		
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar:				
36	Half brick walls.	m2	2		
37	One brick walls.	m2	65		
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 Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R	

	Brickwork reinforcement:				
39	75mm Wide reinforcement built in horizontally.	m	13		
40	150mm Wide reinforcement built in horizontally.	m	761		
	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	75		
	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	110		
	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	152		
	Carried to Collection			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 Section No. 3		R
Bill No. 2		
Stormwater Drainage (Provisional) Quantum Built & Environment Consultants		

ltem No		Quantity	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			
	DEMOLITIONS			
	Taking down and removing:			
1	Approximately 1800mm high Wire mesh fencing with and including timber posts bedded on concrete bases, including removal of steel gates and prepare surface for new fence (New fence elsewhere).	53		
	STORMWATER DRAINAGE			
	EARTHWORKS			
	Site Clearance:			
2	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	217		
	Carried to Collection		R	
	Section No. 3 Bill No. 3 Fencing and Railing <b>Quantum Built &amp; Environment Consultants</b>			

					1	
	EXCAVATION OTHER THAN BULK.					
	Excavation in all materials other than rock not exceeding 2m deep:					
3	Holes.	m3	8			
	Risk of collapse of excavations other than bulk:					
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	51			
	CARTING AWAY					
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):					
5	Off site to a dumping site to be found by the Contractor.	m3	8			
	KEEPING EXCAVATIONS FREE OF WATER					
	Keeping excavations free of water:					
6	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:					
7	Bases.	m3	8			
	TEST BLOCKS					
	Test blocks:					
8	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional).	Sets	1			
	Carried to Collection			R		+
	Section No. 3 Bill No. 3					
	Fencing and Railing Quantum Built & Environment Consultants					

					1	
	FENCING					
	GALVANISED STEEL SECURITY FENCING					
	Hot dipped galvanised posts, stays, bolts, etc., and					
	Aperture type welded mesh security fencing:					
9	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	72			
10	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	289			
11	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		70			
	diameter galvanised binding wire at 300mm centres.	m	72			
12	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	12			
13	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	24			
	Carried to Collection Section No. 3 Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants			R		
	Quantum Built & Environment Consultants					

14	75mm Diameter x 3mm thick dropper post, 2400mm long, with top end welded on flat cap, including necessary excavation, backfilling, cartaway, etc., complete.	No	24		
15	M16 Carriage bolt.	No	24		
	Hot Dipped Galvanised Gates, including bolts, hinges, etc.:				
16	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		
17	20mm x 300mm Long Barrel bolt.	No	1		
18	M24 Eye bolt, 300mm long.	No	2		
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	Carried to Collection			R	
	Section No. 3 Bill No. 3				Γ
	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	_		•	
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				

em Io			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> )		Item		
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. ( <i>Once-off</i> )	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. ( <i>Per month</i> )	No	4		
	Carried to Final Summary			R	
	Section No. 4 Bill No. 1 Occupational Health and Safety Quantum Built & Environment Consultants				

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er is referred to the relevant Clauses in the cument Model Preambles for Trades (2008 to the Supplementary Preambles which are I in this Bill.			
ENTARY PREAMBLES			
uted by Selected Sub-contractors			
under the heading "SELECTED SUB- ORS WORK" will commence during the this contract and the contractor shall allow to the site for these selected contractors. tor shall prepare a programme in with these selected sub-contractors in order the work successfully. Payment will not be m via the contractor. The estimated values attracts are listed to enable the contractor to rofit and attendances, if required.			
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	cument Model Preambles for Trades (2008 to the Supplementary Preambles which are in this Bill. ENTARY PREAMBLES Med by Selected Sub-contractors Under the heading "SELECTED SUB- "ORS WORK" will commence during the the site for these selected contractors, in order the work successfully. Payment will not be my in these selected sub-contractors in order the work successfully. Payment will not be my in the contractor. The estimated values tracts are listed to enable the contractor to rofit and attendances, if required. Estimation for delivery to site of all articles Med Selected Sub-contractors for further the of "Prime Cost Amounts and Provisional Carried to Collection 4 Sums	cument Model Preambles for Trades (2008 to the Supplementary Preambles which are in this Bill. ENTARY PREAMBLES Inted by Selected Sub-contractors under the heading "SELECTED SUB- 'ORS WORK" will commence during the 'this contract and the contractor shall allow to the site for these selected contractors. tor shall prepare a programme in with these selected sub-contractors in order the work successfully. Payment will not be m via the contractor. The estimated values itracts are listed to enable the contractor to rofit and attendances, if required. est amounts and provisional sums are for ification for delivery to site of all articles 25 tor is referred to the Preliminaries for further of "Prime Cost Amounts and Provisional Carried to Collection 5 Sums	cument Model Preambles for Trades (2008 to the Supplementary Preambles which are i in this Bill. ENTARY PREAMBLES Ited by Selected Sub-contractors under the heading "SELECTED SUB- ORS WORK" will commence during the this contract and the contractor shall allow to the site for these selected contractors. for shall prepare a programme in with these selected sub-contractors in order the work successfully. Payment will not be m via the contractor. The estimated values itracts are listed to enable the contractor to rofit and attendances, if required. st amounts and provisional sums are for ification for delivery to site of all articles 28 tor is referred to the Preliminaries for further of "Prime Cost Amounts and Provisional 5 Sums

DESLUDGING TO EXISTING PIT ABLUTION Provide the sum of R120 000.00 (One Hundred and			
Twenty Thousand Rand) for the desludging of pit toilets.	Item		120 000.00
Profit on above item.	Item		
Attendance on Ditto.	Item		
COMMUNITY LIAISION OFFICER			
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
Profit on above item.	Item		
Attendance on Ditto.	Item		
BOLLARDS			
Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for bollards.	Item		25 000.00
Profit on above item.	Item		
Attendance on Ditto.	Item		
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			
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
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 Section No. 5 Bill No. 1 Provisional Sums Quantum Built & Environment Consultants		R	
	COMMUNITY LIAISION OFFICER         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)         Profit on above item.         Attendance on Ditto.         BOLLARDS         Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for bollards.         Profit on above item.         Attendance on Ditto.         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         Budgetary allowance of R50 000.00 (Fifty Thousand Rand) for landscaping to be used for ground shaping where necessary as directed by the Principal Agent.         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.         Carried to Collection         Section No. 5         Bill No. 1         Provisional Sums	COMMUNITY LIAISION OFFICER         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         Profit on above item.         Attendance on Ditto.         BOLLARDS         Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for bollards.         Profit on above item.         Attendance on Ditto.         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         Budgetary 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         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.	COMMUNITY LIAISION OFFICER         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)         Profit on above item.         Attendance on Ditto.         BOLLARDS         Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for bollards.         Provide the sum of R25 000.00 (Twenty Five Thousand Rand) for bollards.         Profit on above item.         Attendance on Ditto.         BUDGETARY ALLOWANCES         The following budgetary allowances are for work to be agreed by the Principal agent         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.         Budgetory allowance of R50 000.00 (Fifty Thousand Rand) for alditonal alterations and/or demolition work to be used strictly as directed by the Principal Agent.         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.         Remit No. 1       Principal Agent.         Provisional Sums       Item

Section No. 5				
Bill No. 1				
Provisional Sums				
COLLECTION				
	Page		Amount	
	No		Amount	
Total Brought Forward from Page No.	55			
	56			
Carried to Final Summary		R		
Section No. 5 Bill No. 1				
Provisional Sums Quantum Built & Environment Consultants				
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	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			
	50			