

m D		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		K	
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6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary for the carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.		
7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.		
8. Where any item is not relevant to this specific contract, such item is marked N/A.		
9. If Alternative A as set out in clause 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 a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.		
Carried to Collection	R	
Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants		



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	SECTION A: PRINCIPAL BUILDING AGREEMENT		
	Definitions		
1	Definitions and interpretation (Clause 1).		
	F: T:	Item	
	Objective and Preparation		
2	Offer and acceptance and performance (Clause 2).		
	F: T:	Item	
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:	Item	
4	Design responsibility (Clause 4).		
	F: T:	Item	
5	Employer's agents (Clause 5).		
	F: T:	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:	Item		
7	Compliance with regulation (Clause 7).			
	A Health and Safety Specification is attached for pricing in Section No.14.			
	F: T:	ltem		
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: T:	Item		
10	Works insurances (Clause 10).			
	F: T:	ltem		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



		<u>.</u>		
11	Liability insurances (Clause 11).			
	F: T:			
		Item		
12	Effecting insurances (Clause 12).			
	F:	Item		
13	No Clause (Clause 13).			
10	F:	Item		
		lient		
14	Security (Clause 14).			
	F: T:	Item		
	Execution			
15	Preparation for and execution of the works (Clause 15).			
15				
	F: T:			
		Item		
16	Access to the works (Clause 16).			
	F: T:			
		Item		
17	Contract instructions (Clause 17).			
.,				
	F: T:	Item		
		nem		
	Carried to Collection Section No. 1		R	_
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			



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:	Item		
22	Contractoria demostia aubecaturatore (Clause 22)	nem		
23	Contractor's domestic subcontractors (Clause 23).			
	F: T:	Item		
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	Carried to Collection Section No. 1		R	 <u> </u>
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			



	Completion			
24	Practical completion (Clause 24).			
	F: T:			
		Item		
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		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries			
	Quantum Built & Environment Consultants			



28	Sectional completion (Clause 28).				
	F: T:	ltem			
		nem			
29	Revision for date of practical completion (Clause 29).				
	F: T:	ltem			
30	Penalty for non-completion (Clause 30).				
	F:	ltem			
	<u>Payment</u>				
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			
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	Section No. 1 Bill No. 1				
	Preliminaries				
	Quantum Built & Environment Consultants				
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32	Adjustment to the contract value (Clause 32).			
	F: T:	Item		
		liem		
33	Recovery of expense and loss (Clause 33).			
	F: T:	Item		
34	Final account and final payment (Clause 34).			
	F: T:	Item		
35	Payment to other parties (Clause 35).			
	F: T:	Item		
	<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:	ltem		
39	Cancellation - Cessation of the works (Clause 39).			
	F: T:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



	Dispute (A40)				
40	Dispute settlement (C	Clause 40)			
40	-		Item		
	State Provisions (A4				
41	-				
41	State Substitutions (C	T:	Item		
		I	nem		
40	Schedule (A42)	(0)			
42	Pre-Tender informatio	on (Clause 42).			
	F:V:	T	Item		
	CONTRACTING AND	O OTHER PARTIES			
	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			
		Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries Quantum Built & En	vironment Consultants			



42.1.2 Agent's Service:	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 DE	ETAILS			
42.2.1 Works Description	on:			
Refurbishments to SAF	E Programme facilities.			
42.2.2 Site Description	:			
The site is situated at th	ne existing school premises.			
42.2.3 Work or Installation by Direct Contractors: (None)				
42.2.4 This Agreemen	it is for a State Contract:(Yes)			
Payment will be on site: (Yes)	e made for materials and goods			
Dispute resolution method (Mediation (in terms of clause 40) followed by litigation)				
42.2.5 Contract period	l: As per Tender advert			
-	commencement of the works after akes possession of the site: 5			
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Section No. 1	Carried to Collection		R	
Bill No. 1 Preliminaries				
Quantum Built & Envir	ronment Consultants			
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42.2.7 Completions in sections are required: No 42.2.8 Intended date of practical completion and the penalty per calendar day for the works as a whole: Date: 4.5 Calendar months after contract. commencement including builders. holidays Penalty: 7.5 cents per R100 of construction amount per Calendar Day. Intended dates of practical completion where section completion is required and the penalty per calendar day for the works in sections: N/A 42.2.9 Law applicable: Republic of South Africa Carried to Collection R Carried to Collection Bill No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants					
penalty per calendar day for the works as a whole: Date: 4.5 Calendar months after contract commencement including builders holidays Penalty: 7.5 cents per R100 of construction amount per Calendar Day. Intended dates of practical completion where section completion is required and the penalty per calendar day for the works in sections: N/A 42.2.9 Law applicable: Republic of South Africa Image: Carried to Collection R	42.2.7	Completi	ons in sections are required: No		
commencement including builders holidays Penalty: 7.5 cents per R100 of construction amount per Calendar Day. Intended dates of practical completion where section completion is required and the penalty per calendar day for the works in sections: N/A 42.2.9 Law applicable: Republic of South Africa	42.2.8	penalty p			
amount per Calendar Day. Intended dates of practical completion where section completion is required and the penalty per calendar day for the works in sections: N/A 42.2.9 Law applicable: Republic of South Africa Carried to Collection R		Date:	commencement including builders		
section completion is required and the penalty per calendar day for the works in sections: N/A 42.2.9 Law applicable: Republic of South Africa		Penalty:			
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Section No. 1 Bill No. 1 Preliminaries	42.2.9	Law app	licable: Republic of South Africa		
Section No. 1 Bill No. 1 Preliminaries					
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Section No. 1 Bill No. 1 Preliminaries					
Bill No. 1 Preliminaries	Section	No 1	Carried to Collection	R	
	Bill No. Prelimiı	1 naries	& Environment Consultants		



42.3	NSURANCES		
42.3.1	Contract works insurance to be effected by the :		
	CONTRACTOR		
	For the amount of: CONTRACT SUM + 20%		
	With a deductible of: R 5 000.00		
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 5 000 000.00		
and eve	With a deductible of: Not exceeding 5% of each ery claim		
<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	This document is drawn up in accordance with the ASAQS Standard System of Measuring Building Work: (YES) Sixth Edition, revised in February 1999.		
	Carried to Collection	R	
Section Bill No. Prelimir Quantu	1		



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)		
0	Carried to Collection	R	
Section Bill No. Prelimin	1 naries		
Quantu	Im Built & Environment Consultants		



	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				
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45	Provisional Bills of Quantities (B2.2)				
	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:	ltem			
46	Availability of construction documentation (B2.3)				
	F: T:	Item			
47	Interests of Agents (B2.4)				
	F: T:	ltem			
48	Priced documents (B2.5)				
	F:	ltem			
49	Tender submission (B2.6)				
	Notwithstanding anything contained in this clause tenders shall be valid for a period of 90 calendar days from the closing date of tenders.				
	F: T:	ltem			
		item			
	Carried to Collection Section No. 1		R		╞
	Bill No. 1 Preliminaries				
	Quantum Built & Environment Consultants				
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	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:			
		ltem		
51	Geotechnical investigation (B3.2)			
	(Please see attached Geotechnical Investigation Report Annexure E).			
	F: T:	ltem		
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:	Itom		
		ltem		
53	Existing premises occupied (B3.4) (No)			
	F: T:	ltem		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



54	Previous work - dimensional accuracy (B3.5)	
	F:V:	
55	Previous work - defects (B3.6)	
	F:V:	
56	Services - known (B3.7) Existing services and points of connection are known and will be pointed out on site by the Principal Agent.	
	F:V:	
57	Services - known (B3.8)	
	F:V:	
58	Protection of trees (B3.9)	
	F:V:	
59	Articles of value (B3.10)	
	F:V:	
60	Inspection of adjoining properties (B3.11)	
	F:V:	
	Management of contract (B4)	
61	Management of the Works (B4.1)	
	F:V:	
	Carried to Collection	R
	Section No. 1 Bill No. 1	
	Preliminaries Quantum Built & Environment Consultants	



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:	ltem		
65	Labour and plant records (B4.5)			
	F: T:	ltem		
	Samples and shop drawings (B5)			
66	Samples of materials (B5.1)			
	F: T:	ltem		
67	Workmanship samples (B5.2)			
	F: T:	ltem		
	Carried to Collection		R	
	Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants			



68	Shop drawings (B5.3)			
	F: T:	Item		
69	Compliance with manufacturer's instructions (B5.4)	ltem		
	Temporary works and plant (B6)			
70	Deposits and fees (B6.1)			
	F: T:	Item		
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:	ltem		
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		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



		1 1	11
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	
	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	
	Carried to Collection Section No. 1		R
	Bill No. 1 Preliminaries		
	Quantum Built & Environment Consultants		



	Prime cost amounts (P9)		
	Prime cost amounts (B8)		
82	Responsibility for prime cost amounts (B8.1)		
	F: T:	Item	
	Attendance on Nominated/Selected Subcontractors (B9		
83	General Attendance (B9.1)		
	F: T:	Item	
84	Special Attendance (B9.2)		
	F: T:	Item	
85	Commissioning - fuel, water and power (B9.3)		
	F: T:	Item	
	Financial Aspects (B10)		
86	Statutory taxes, duties and levies (B10.1)		
	F: T:	Item	
87	Payment of Preliminaries (B10.2)		
	F: T:	Item	
88	Adjustment of Preliminaries (B10.3)		
	F: T:	Item	
89	Payment certificate cash flow (B10.4)		
	F: T:	Item	
	Carried to Collection		R
	Section No. 1 Bill No. 1		
	Preliminaries Quantum Built & Environment Consultants		



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	<u>General (B11)</u>		
90	Protection of the Works (B11.1)		
	F: T:		
		Item	
91	Protection/isolation of existing/sectionally occupied works (B11.2)		
	F: T:	Item	
92	Site security (B11.3)		
	F: T:		
		Item	
93	Notice before covering work (B11.4)		
	F: T:	Item	
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	
97	Vermin (B11.8)		
	F: T:	Item	
	Carried to Collection		R
	Section No. 1 Bill No. 1		
	Preliminaries Quantum Built & Environment Consultants		



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		
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:	Item		
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	Carried to Collection Section No. 1		R	L
	Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



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:	ltem		
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		
100		item		
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		
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	Carried to Collection Section No. 1		R	 -
	Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



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		
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	item		
101	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:	Item		
	Carried to Collection		R	
	Section No. 1 Bill No. 1			
	Preliminaries Quantum Built & Environment Consultants			



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



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			
	F: T:	Item		
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.			
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	Section No. 1		R	
	Bill No. 1 Preliminaries			
	Quantum Built & Environment Consultants			



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:	ltem		
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			



Bill No. 1		
Preliminaries		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	1	
	2	
	3	
	4	
	5	
	6	
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Carried Forward		R
Section No. 1 Bill No. 1 Preliminaries		
Quantum Built & Environment Consultants		



Section No. 1			
Bill No. 1			
Preliminaries			
COLLECTION			
	Page No	Amoun	It
Brought Forward		R	
Total Brought Forward from Page No.	18		
	19		
	20		
	21		
	22		
	23		
	24		
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	27		
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	29		
Carried Forward to Summary of Section No. 1		R	
Section No. 1 Bill No. 1 Preliminaries Quantum Built & Environment Consultants			
Quantum Built & Environment Consultants			



ltem No		Quantity	Rate	Amount
	SECTION NO.1			
	<u>BILL NO. 2</u>			
	OCCUPATIONAL HEALTH AND SAFETY			
	MODEL 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			
	Carried to Collection		Р	
	Section No. 1 Bill No. 2 Occupational Health and Safety Quantum Built & Environment Consultants		R	



	SUPPLEMENTARY PREAMBLES		
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles. The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.		
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications. The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications. The costs included herein must incorporate Community Liaison Officer (CLO).		
	<u>1.1 Preparation and submission of Health and Safety</u> Plan.		
1	The preparation and submission of the Safety and Health Plan which must be based on the issued Health and Safety Specifications.	SUM	
	Carried to Collection	R	
	Section No. 1 Bill No. 2 Occupational Health and Safety Quantum Built & Environment Consultants		



	1.2 Preparartion and submission of the Health and Safety File				
2	The prepation and submission of the Health and Safety File that contains all the required documentation as would be necessary for the proper administration of OHS on site.			SUM	
	1.3 OHS Management System				
3	Monitoring, review and maintenance of Occupational Safety and Health management system as and when required.			SUM	
	1.4 The Safety and Health Committee.				
	Conduct OHS meetings and inspections during the duration of the contract as below;				
4	a) Health and Safety committee meetings held monthly for the duration of the contract.	No	4.00		
5	 b) Site Safety and Health inspection for the workplace (once in every four months) for the duration of the contract. 	No	4.00		
	1.5 Preparation and submission of COVID19 documentation				
6	The preparation of COVID19 file and inclusion of a COVID19 Plan in it that must be based on the COVID19 Specifications issued.			SUM	
7	The preparation and inclusion in a the COVID19 file, COVID19 screening forms.			SUM	
8	The preparation and inclusion in a the COVID19 file, COVID19 Risk Assessment, Toolbox Talks and			CLIM	
	communication sheets.			SUM	
9	The preparation and inclusion in a the COVID19 file, COVID19 Induction and policy.			SUM	
	Carried to Collection			R	
	Section No. 1				
	Bill No. 2 Occupational Health and Safety Quantum Built & Environment Consultants				



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	1.6 Appointment of Heath and Safety Officer				
10	Full time competent Health and Safety Officer for the entire duration of the contract.			SUM	
	1.7 Training of Health and Safety Representatives				
11	Training of two Health and Safety Representatives to enable proper execution of responsibilities in terms of Section 17 of the Act.			SUM	
	1.8 Medical Check Up				
12	Conduct health fitness by a registered medical practitioner at least on yearly basis to ensure their operator/workers are in good health before and during their engagement in the period of contract.			SUM	
	1.9 Personal Protective Equipment				
13	Provide, maintain and replace any damage personal protective equipment as per specification to all employees.			SUM	
	1.10 Health and Safety Training				
	<u>Plan and conduct relevant safety and health training plan as per site requirement.</u>				
14	Fire Fighting Training	No	4.00		
15	Fall Protection Planner	No	4.00		
16	Scaffold Erectors	No	4.00		
17	Scaffold Inspector	No	4.00		
18	Scaffold Supervisor	No	4.00		
19	Scaffold Team Leader	No	4.00		
	Carried to Collection			R	
	Section No. 1 Bill No. 2				
	Occupational Health and Safety				
	Quantum Built & Environment Consultants				



	1.11 Hazards Identification Risk Assessment And Risk Control (HIRARC)		
20	Prepare and undertake Hazards Identification, Risk Assessment and Risk controls (HIRARC) for all construction activities.	SUM	
	1.12 Monthly Report		
21	Printing/copying, papers, inks, binding or related cost in providing the monthly report within the contract period inclusive of any investigation expertise.	SUM	
	1.13 Notification of Accidents, Dangerous Occurrences, Occupational Diseases		
22	Provision for Accident / Incident Investigation Report inclusive for the cost to engage if there is any third parties involve (competent person / specialist) to investigate any accident at workplace.	SUM	
	1.14 General Signage		
	Safety signage at workplace to ensure the workers and the public are aware about safety within the contract period.		
	Provide, install and maintain the following approved signage		
23	Construction Signboard indicatring mandatory PPE to be worn on site.	SUM	
24	Signs indicating what to do and where to report with directional signs	SUM	
25	Emergency exit routes and assembly point.	SUM	
26	Any other safety signs as instructed and approved by the S.O.	SUM	
27	"No unauthorised entry" signage around site perimeter.	SUM	
	Carried to Collection Section No. 1	R	
	Bill No. 2 Occupational Health and Safety Quantum Built & Environment Consultants		



	1.16 First Aid Facilities.				
	Provision of complete set of first aid kit for office and quarters within the period of contract. Minimum requirement to be at site are two competent / trained First Aider and two complete first aid kits.				
	a) To provide suitable two (2) trained person to attend first-aid treatment.	No	4.00		
29 1	b) To provide and maintain first aid kit.	No	4.00		
	1.17 Portable Fire Extinguisher.				
-	Provide enough fire extinguishers at the workplace. The locations of the fire extinguishers include the site office, quarters and standby for any hot works activities within the contract period.				
	Provision and maintenance of approved fire extinguishers complete with relevant approved signage.			SUM	
	Part 2 Amenities and Facilities (Construction Site and Site Accommodation)				
	2.1 Toilets				
	Provide, maintain and the dislodging of toilets for workers. Toilet shall be connected to a sewer / temporary septic tank with the approval of the relevant competent authority. Contractor shall estimate the number of workers for entire project and at least 1 toilet per every 25 workers. For every 100 workers, there should be 4 numbers of toilet.			SUM	
	2.2 Temporary structures and sanitary conveniences at construction sites				
	Temporary site office with adequate lighting and ventilation.			SUM	
	Carried to Collection			R	
E	Section No. 1 Bill No. 2 Occupational Health and Safety Quantum Built & Environment Consultants				



33	Sanitary facilities in the ratio of 1 water closet, 1 shower and 1 wash basin for every 25 workers or less shall be provided. The toilet facilities shall be connected to a sewer/temporary septic tank.	SUM	
	2.3 Temporary rest area		
34	Provide and maintain rest area for the workers and site staff with safe area, ventilated and lighted.	SUM	
	2.4 Lighting		
35	Provide adequate lighting in dark environment at work areas, access and egress.	SUM	
	Part 3 Fall Prevention		
	3.2 Safety nets		
36	Install and maintain safety net as close as possible to the working level. Should it be on the outside of the structure, the outer edges should be higher that the inner edge. Contractor to calculate the area to be close/cover base on the proposed design of the building.	SUM	
	Carried to Collection	R	1
	Section No. 1 Bill No. 2		
	Occupational Health and Safety Quantum Built & Environment Consultants		



Section No. 1		
Bill No. 2		
Occupational Health and Safety		
COLLECTION		
	Page No	Amount
Total Brought Forward from Page No.	32	
	33	
	34	
	35	
	36	
	37	
	38	
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Carried Forward to Summary of Section No. 1 Section No. 1		R
Bill No. 2 Occupational Health and Safety		
Quantum Built & Environment Consultants		



	SECTION SUMMARY - Preliminaries				
Bill No		Page No		Amount	
1	Preliminaries	31			
2	Occupational Health and Safety	39			
	Carried to Final Summary		R		
	Section No. 1 Quantum Built & Environment Consultants				



ltem No		Quantity	Rate	Amount	
-	SECTION NO.2				
	BUILDING WORK				
	<u>BILL NO. 1</u>				
	ALTERATIONS				
	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				
	SUPPLEMENTARY PREAMBLES				
	Demolitions and work on site:				
	All demolitions and works on site must be carried out carefully and in the safest possible manner and the Contractor is to make a thorough examination and take all necessary precautions before proceeding with the work. The utmost care is to be observed to avoid any structural or other damages in the remaining portions of the existing building.				
	Carried to Collection		R		
	Section No. 2 Bill No. 1 Alterations				
	Quantum Built & Environment Consultants				



Special care is to be exercised not to interfere with any electrical installation, and notice is to be given to the Representative/Agent when any disconnections, removal of wire, etc., are necessary and the Contractor is to afford every facility to the workmen carrying out his work.		
The Contractor shall not remove or interfere with any furniture, fittings or similar articles unless specially mentioned in the following items and shall give adequate notice to the Representative/Agent if the removal of any such articles from parts of the buildings are to be altered becomes necessary so that the Employer may have same removed before the Contractor commences work in such parts.		
The Contractor will be held solely responsible for any damage to persons and property and for the safety of the structures and must make good at his own expense any damage that may occur.		
Damage and repairs to services:		
Should the Contractor damage any services which are to remain in operation or any services which have not yet been disconnected prior to removal, then the Contractor will be held solely responsible for such damage and any further resultant damage.		
The Contractor shall immediately notify the Representative/Agent and the Authorities concerned and he shall at his own cost make all necessary arrangements for disconnection and repairs with the relevant Authorities and shall pay all fees and charges levied.		
Carried to Collection	R	
Section No. 2 Bill No. 1 Alterations Quantum Built & Environment Consultants		



	Disposal of material:			
	All existing materials specified to be "removed", "demolished and removed", "hacked up or off and removed", or "taken down or off and removed" or "broken down and removed", etc., become the property of the Contractor. These materials and all debris, rubbish and earth material must be carted away by the Contractor and the site must be left clean and unencumbered. The contractor must make his own arrangements for dumping and shall pay all fees and charges levied.			
	If any of the bricks or other materials specified to be "removed" are sound and considered suitable for any portion of the new work they must be thoroughly cleaned off and stacked on site for inspection by the Representative/Agent. The approval of the Representative/Agent must be obtained before any such materials are re-used in the new work.			
	All existing materials specified to be "taken down and set aside for re-use" or "taken down and set aside" shall remain the property of the Employer and must be cleaned off, cleared of all nails, etc., and neatly stacked and stored on site by the Contractor where directed and carefully handled during taking down, storage and re- fixing. The Contractor will be held responsible for the safety of these materials and must take all the necessary precautions for their protection and any damage or loss that may occur must be made good by the Contractor at his own expense.			
	BUDGETARY ALLOWANCES			
	Budgetary allowances:			
1	Provide the amount of R 50 000.00 (Fifty Thousand Rands) for Budgetary allowance provision for Alteration Works as-and-when encountered.	ltem		50 000.00
	Carried to Collection		R	
	Section No. 2 Bill No. 1			
	Alterations Quantum Built & Environment Consultants			



	REMOVAL OF EXISTING WORK				
	Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere):				
2	VIP 200 Pit pedestal and prepare surface to receive new VIP 450 pedestal (VIP 450 pedestal elsewhere) complete.	No	4		
3	40mm PVC piping including fittings and holderbats.	m	4		
4	110mm Ditto.	m	4		
	Carried to Collection Section No. 2 Bill No. 1			R	
	Bill No. 1 Alterations Quantum Built & Environment Consultants				



Section No. 2				
Bill No. 1				
Alterations				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	41			
	42			
	43			
	44			
Carried Forward to Summary of Section No. 2 Section No. 2		R		
Bill No. 1 Alterations				
Quantum Built & Environment Consultants				
	I	I	II	



	Quantity	Rate	Amount	
SECTION NO.2				
BUILDING WORK				
BILL NO.2				
IRONMONGERY				
PREAMBLES				
BATHROOM FITTINGS				
Stainless steel bathroom fittings				
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	8			
Carried Forward to Summary of Section No. 2		R		
Section No. 2 Bill No. 2 Ironmongery Quantum Built & Environment Consultants				
	BUILDING WORK BILL NO.2 IRONMONGERY PREAMBLES BATHROOM FITTINGS Stainless steel bathroom fittings 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	SECTION NO.2 BUILDING WORK BILL NO.2 IRONMONGERY PREAMBLES BATHROOM FITTINGS Stainless steel bathroom fittings 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 8 Carried Forward to Summary of Section No. 2 Section No. 2 Bill No. 2 Bill No. 2 Bill No. 2	SECTION NO.2 BUILDING WORK BILL NO.2 IRONMONGERY PREAMBLES BATHROOM FITTINGS Stainless steel bathroom fittings 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 8	SECTION NO.2 BUILDING WORK BILL NO.2 IRONMONGERY PREAMBLES BATHROOM FITTINGS Stainless steel bathroom fittings 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 Z0litre capacity.1750 No 8 R Carried Forward to Summary of Section No. 2 Bill No. 2



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	SECTION NO.2				
	BUILDING WORK				
	BILL NO.3				
	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				
	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				
	SUPPLEMENTARY PREAMBLES				
	The Supplementary Preambles reflected elsewhere in these Bill of Quantities shall apply equally to this Trade.				
	<u>Stainless steel basins, sinks, wash troughs, urinals,</u> etc				
	Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)				
	Carried to Collection		R		
	Section No. 2 Bill No. 3 Plumbing and Drainage (Provisional) Quantum Built & Environment Consultants				



	Sealing of edges:				
	Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone and prices must include therefo				
	uPVC pipes and fittings:				
	Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings				
	uPVC pressure pipes and fittings:				
	Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings				
	Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints				
	SANITARY FITTINGS (PROVISIONAL)				
	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		
	SANITARY PLUMBING (PROVISIONAL)				
	uPVC pipes:				
2	40mm Pipes fixed to or chased into brickwork.	m	12		
3	110mm Pipes fixed to or chased into brickwork.	m	8		
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	Bill No. 3 Plumbing and Drainage (Provisional)				
	Quantum Built & Environment Consultants				



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	Extra over uPVC pipes for fittings.:					
4	40mm Bend.	No	3			
5	110mm Bend.	No	2			
6	40mm Junction.	No	6			
7	110mm Junction.	No	4			
8	40mm 'GI Two-way' vent anti-vac valve.	No	4			
	Sundries.:					
9	Supply and fit PVC bracket to 40mm PVC pipe.	No	8			
	Carried to Collection Section No. 2			R		
	Bill No. 3 Plumbing and Drainage (Provisional)					
	Quantum Built & Environment Consultants					



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Section No. 2				
Bill No. 3				
Plumbing and Drainage (Provisional)				
COLLECTION				
	Page		Amount	
Total Brought Forward from Page No.	No 47			
	48			·
	49			•
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Carried Forward to Summary of Section No. 2 Section No. 2		R		
Bill No. 3 Plumbing and Drainage (Provisional)				
Quantum Built & Environment Consultants				
	I	I	1	



	SECTION SUMMARY - Building Works				
Bill No		Page No		Amount	
1	Alterations	45			
2	Ironmongery	46			
3	Plumbing and Drainage (Provisional)	50			
	Carried to Final Summary		R		
	Section No. 2				
	Quantum Built & Environment Consultants				



Item			Quantity	Rate	Amount	
No	SECTION NO.3					
	EXTERNAL WORKS					
	BILL NO.1					
	WATER RETICULATION (PROVISIONAL) NOTE:The Standard Preambles and the Notes in the various trade bills are to, and do, apply equally to this section					
	WATER SUPPLIES (DOMESTIC AND FIRE)					
	Class 12 HDPE pipes:					
1	30mm Pipes.	m	14			
2	30mm Pipes laid in and including trenches not exceeding 1m deep.	m	32			
	Extra over class 12 HDPE pipes for fittings:					
3	30mm bend.	No	9			
4	30mm Tee.	No	5			
5	30mm End cap.	No	3			
	Sundries.:					
6	Water valve inspection chamber measuring approximately 645 x 645mm on plan complete with concrete surface bed, brick chamber below not exceeding 1000mm deep internally and cover gratings, etc.	No	3			
	Carried to Collection			R		
	Section No. 3 Bill No. 1 Bulk Water Supply (Provisional) Quantum Built & Environment Consultants					



7	Unreinforced concrete thrust blocks in trenches at bends, tees, etc. including extra excavation, formwork, etc (Provisional).	m3	0.1		
	Testing.:				
8	Testing water pipe system.		ltem		
	SOIL DRAINAGE				
	Class 6 Corflo uPVC pipes.:				
9	110mm Pipes laid vertically or ramped to backdrops, rodding eyes, etc (no excavations).	m	5		
10	110mm Pipes laid in and including trenches not exceeding 1m deep.	m	30		
	Extra over class 6 Corflo uPVC pipes for fittings.:				
11	110mmx45° PVC UG plain bend.	No	6		
12	110mmx110mm PVC SV IE junction.	No	8		
	Sumps, catchpits, inspection chambers, etc (gratings and covers elsewhere).:				
13	Pre-cast concrete inspection chamber size 1000mm internal diameter not exceeding 1000mm deep internally, complete with 150mm thick pre-cast concrete cover slab with rebated opening for cover and frame, benching in bottom chamber and dished down to channels.	No	3		
	<u>Covers, etc.:</u>				
14	740mm Diameter 204kg cast iron manhole cover and frame.	No	3		
15	Lifting key for manhole cover (To be handed over to employer upon completion).	No	3		
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	Carried to Collection			R	
	Section No. 3 Bill No. 1				
	Bulk Water Supply (Provisional) Quantum Built & Environment Consultants				
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	Pipe connections.:			1
16	Excavate to expose and break into side of existing manhole, break through side into manhole for new 110mm uPVC pipe connection, including changing benching, etc to accommodate new connection.	. 3		
	Encasing pipes in concrete.:			1
17	15MPa/19mm Unreinforced concrete encasing minimum 200mm thick all round 110mm pipes (pipes elsewhere measured) including any additional excavation, formwork, etc.	ı 8		
	Sundries.:			
18	110mm Gulley trap with hopper head.	3		1
19	Testing soil drainage system.	Item		
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	Carried to Collection		R	
	Section No. 3 Bill No. 1 Bulk Water Supply (Provisional) Quantum Built & Environment Consultants			
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Section No. 3				
Bill No. 1				
Bulk Water Supply (Provisional)				
COLLECTION				
	_			
	Page No		Amount	
Total Brought Forward from Page No.	52			
	53			
	54			
Carried Forward to Summary of Section No. 3		R		_
Section No. 3				
Bill No. 1 Bulk Water Supply (Provisional)				
Quantum Built & Environment Consultants				



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	Earth Filling Selected And Supplied By The Contractor, Deposited In Layers Not Exceeding 150mm Thick, Watered And Consolidated				
6	G7 type material, selected and supplied by the Contractor, deposited in layers not exceeding 150mm thick, watered and consolidated to 93% modified AASHTO density under pavings.	m3	36		
	<u>Scarify, Mix And Consolidate Top 150mm Of</u> <u>Subgrade</u>				
7	To platforms to 93% modified AASHTO density.	m2	239		
	Prescribed Density Tests As Check On Contractors Tests Included In Filling Above				
8	Modified AASHTO density test and deliver the results to the Architect within 24 hours of the tests being completed.	No	24		
	CONCRETE				
	<u>Concrete</u>				
9	Cement concrete (25MPa) in stormwater apron cast in panels not exceeding 3m2.	m3	11		
10	Cement concrete (25MPa) in stormwater channel cast in panels not exceeding 3m2.	m3	35		
	Test blocks:				
11	Set of three concrete test cubes size 150 x 150 x 150 x 150mm overall including testing (Provisional).	Sets	60		
	Concrete Sundries				
12	Float top of concrete v-shaped stormwater channel/apron to falls with a wood float whilst the concrete is still green with the addition of 2.1 sand and cement as necessary.	m2	239		
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	Carried to Collection Section No. 3 Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants			R	



	FORMWORK				
	Class F1 Rough Formwork To				
13	Edges, risers, ends and reveals not exceeding 300mm high or wide.	m	355		
	Movement Joints, Etc				
14	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	157		
	REINFORCEMENT				
15	High tensile steel mesh reinforcement Ref. 193 to concrete surface beds, slabs, etc.	m2	239		
	Catchpits, inspection chambers, etc including excavation, risk of collapse, keeping excavations free of water, backfilling and ramming (carting away elsewhere measured), building in or holing sides for pipes and making good to same				
16	100mm Thick (20MPa) spreader 1500mm long and average 1200mm wide with nine concrete bricks cast in as brick-on-end diffusers in three rows including floating off concrete to a smooth finish, earthworks, formwork, etc.	No	2		
17	Headwall comprising 150mm thick steel floated cement concrete (15MPa) bottom average 800mm wide x 900mm long with 1000mm long toe size 230 x 300mm high to front edge, one brick headwall 2600mm girth x average 595mm high with 450mm diameter stormwater pipe built through same and finished on all exposed				
	surfaces in 3.1 cement plaster.	No	2		
	Carried to Collection Section No. 3			R	
	Bill No. 2 Stormwater Drainage (Provisional) Quantum Built & Environment Consultants				



Section No. 3				
Bill No. 2				
Stormwater Drainage (Provisional)				
COLLECTION				
	Page		Amount	
	No			
Total Brought Forward from Page No.	56			
	57			
	58			
Convict Forward to Supersons of Soction No. 2				-
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			
	"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			
	Carried to Collection		R	
	Section No. 3 Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants			



	SUPPLEMENTARY PREAMBLES			
	Nature of ground:			
	The nature of the ground is assumed to be loose sandy material, gravel or silty clay with loose river boulders			
	varying in size up to approximately 450mm diameter, all			
	of which will be deemed as "earth", but possibly interspersed with "hard rock"			
	Should the Contractor encounter any "soft" or "hard"			
	rock in the excavations, he shall immediately notify the			
	Engineer who shall be the sole arbiter as to what constitutes "soft" or "hard" rock			
	for final account purposes Subterranean water:			
	Subterranean water levels will vary from site to site The Contractor shall inform the Principal Agent of any			
	subterranean water encountered on site and submit			
	recommendations and a cost for keeping works free from			
	subterranean water Carried			
	Subterranean water:			
	Subterranean water levels will vary from site to site			
	The Contractor shall inform the Principal Agent of any subterranean water encountered on site and submit			
	recommendations and a cost for keeping works free from			
	subterranean water			
	Carried to Collection	R		
	Section No. 3 Bill No. 3			
	Fencing and Railing			
	Quantum Built & Environment Consultants			
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	STORMWATER DRAINAGE				
	EXCAVATION OTHER THAN BULK.				
	Excavation in all materials other than rock not exceeding 2m deep:				
1	Holes.	m3	2		
	Risk of collapse of excavations other than bulk:				
2	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	20		
	CARTING AWAY.				
	Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):				
3	Off site to a dumping site to be found by the Contractor.	m3	2		
	KEEPING EXCAVATIONS FREE OF WATER.				
	Keeping excavations free of water:				
4	Keeping excavations free of all water other than subterranean water.		ltem		
	CONCRETE, FORMWORK AND REINFORCEMENT				
	REINFORCED CONCRETE				
	25 Mpa/19mm Concrete:				
5	Bases.	m3	2		
	TEST BLOCKS				
	Carried to Collection			R	
	Section No. 3 Bill No. 3				
	Fencing and Railing Quantum Built & Environment Consultants				
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	Test blocks:				
6	Making and testing sets of three 150 x 150 x 150 mm concrete strength test cubes (Provisional).	Sets	0.4		
	FENCING				
	GALVANISED STEEL SECURITY FENCING				
	Hot dipped galvanised posts, stays, bolts, etc and				
	class "a" weldmesh security type fencing				
7	Four strands of 4mm 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).	m	221		
8	Approved 500mm diameter flat wrap 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 (elsewhere measured) with and including 2.5mm diameter galvanised binding wire at 300mm centres.	m	55		
9	Fencing formed of 50 x 50 x 2.5mm diameter galvanised Secumesh security fence 1800mm high with vertical wires facing outwards secured with hogring clips applied with hogring pliers at 300mm centres to top and bottom straining wires and 500mm centres to four intermediate straining wires (straining wires elsewhere measured) including holes through posts.	m	55		
	Carried to Collection			R	
	Section No. 3 Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants				



	Fencing posts, etc.				
10	76,2mm Diameter x 2mm galvanised steel intermediate fencing post 3000mm long fitted with a pressed steel mushroom cap and 150 x 150 x 3mm baseplate at bottom and embedded in 300 x 300 x 700mm mass concrete (15MPa) base ditto.	No	18		
11	101,6mm Diameter x 2mm end or corner post 3000mm long, ditto and bedded in 350 x 350 x 700mm mass concrete (15MPa) bases ditto.	No	1		
12	Straining or corner post 3000m long with sole plate bolted to concrete (bolts elsewhere)	No	1		
	Carried to Collection			R	
	Section No. 3 Bill No. 3 Fencing and Railing Quantum Built & Environment Consultants				



Section No. 3			
Bill No. 3			
Fencing and Railing			
COLLECTION			
	Page No	Amoun	t
Total Brought Forward from Page No.	60		
	61		
	62		_
	63		
	64		-
			-
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Carried Forward to Summary of Section No. 3		R	
Section No. 3 Bill No. 3			
Fencing and Railing Quantum Built & Environment Consultants			



ltem No		Quantity	Rate	Amount	
	SECTION NO.3				
	EXTERNAL WORKS				
	BILL NO.4				
	RETAINING WALL				
	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.				
	Nature of Ground.:				
	The soil material on site varies according to the depths excavated. Between 0 and 300mm of excavation, the topsoil is moist, dark brown, med dense, uniform silty sand. Between 300mm and 600mm of excavation, the nature of soil is slightly moist, light yellowish orange, med dense and uniform silty sand. Further below between 600mm and 1000mm, the soil nature slightly moist, dark brown blotched grey, very dense, uniform clayey and silty soil.				
	(For more details on the soil conditions, please refer to the attached geotechnical investigation report marked as annexure E).				
	Descriptions of excavations shall be deemed to include all ground conditions classified as "earth" described in the above report and where more difficult character as indicated, these are separately measured.				
	Carried to Collection		R		
	Section No. 3 Bill No. 4 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants				



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.		
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.		
Carried to Collection	R	
Section No. 3 Bill No. 4 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants		



	Testing:				\square
	Prices for filling are to include for all necessary density tests in accordance with SANS 1200D.				
	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.				
	<u>BOUNDARY, SCREEN WALLS, WATER TANK</u> BASES, ETC				
	EARTHWORKS				
1	Excavate in earth for surface trenches not exceeding 2000mm deep.	m3	20		
2	Excavate in earth for working space (at Contractor's discretion) exceeding 500mm and not exceeding 1500mm deep to side of ? for the erection and removal of formwork and return, fill and consolidate spoil on completion. (Distance from face of ? to side of excavation is ?mm).	m2	28		
	Risk of collapse of excavations other than bulk:				
3	Allow for risk of collapse to sides of trench and base excavations not exceeding 1500mm deep.	m2	57		
	Carried to Collection			R	 <u> </u>
	Section No. 3 Bill No. 4 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants				



			<u>.</u>		
	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 local approved dumping site to be supplied by the Contractor.	m3	13		
	EARTH FILLING, ETC.				
	Filling with G7 approved material supplied and carted onto site by the Contractor, compacted to a density of at least 97% Mod. AASHTO maximum density:				
5	Earth filling, selected by the Contractor from the excavated material, deposited in layers not exceeding 150mm thick, watered and consolidated as backfilling to trenches, bases, etc.	m3	7		
	SOIL POISONING				
	Approved brand of anti-termite soil poison applied by a Registered Pest Control company and guaranteed against termite infestation for ten years:				
6	Sides and bottoms of trenches, holes, etc. (Provisional).	m2	96		
	COMPACTION OF SURFACES				
	Compaction of surfaces:				
7	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	40		
	CONCRETE				
8	Set of three concrete test cubes size 150 x 150 x 150 x 150mm overall including testing (Provisional).	Sets	2		
	Carried to Collection			R	
	Section No. 3 Bill No. 4				
	Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants				
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	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:				
16	Extra over brickwork for face brickwork.	m2	65		
	<u>Brick-on-edge header course copings, sills, etc of</u> <u>face bricks, pointed with flush joints on all exposed</u> <u>faces:</u>				
17	Extra over brickwork for brick-on-edge header course band	m	57		
	Carried to Collectio	n		R	
	Section No. 3 Bill No. 4 Boundary wall, Retaining wall, Etc (Provisional) Quantum Built & Environment Consultants				



Page No	Amount
66	
67	
68	
69	
70	
71	
	R
	No 66 67 68 69 70



	SECTION SUMMARY - External Works				
Bill No		Page No		Amount	
1	Bulk Water Supply (Provisional)	55			
2	Stormwater Drainage (Provisional)	59			
3	Fencing and Railing	65			
4	Boundary wall, Retaining wall, Etc (Provisional)	72			
	Carried to Final Summary		R		
	Section No. 3 Quantum Built & Environment Consultants				



	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 direct 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.			
Preliminaries			
The contractor is referred to the Preliminaries for further amplification of "Prime Cost Amounts and Provisional Sums"			
Carried to Collection		R	
Section No. 4 Bill No. 1 Provisional Sums Quantum Built & Environment Consultants			



	BUDGETARY ALLOWANCES			
	<u>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</u>			
	COMMUNITY LIAISION OFFICER			
1	Provide the sum of R30 000.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (4 months)	Item		30 000.00
2	Profit on above item.	Item		2 250.00
3	Attendance on Ditto.	Item		750.00
	LANDSCAPING			
4	Provide the sum of R50 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required.	ltem		50 000.00
5	Profit on above item.	Item		3 750.00
6	Attendance on Ditto.	Item		1 250.00
	Carried to Collection Section No. 4		R	
	Bill No. 1 Provisional Sums Quantum Built & Environment Consultants			



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Section No. 4				
Bill No. 1				
Provisional Sums				
COLLECTION				
	Page No		Amount	
Total Brought Forward from Page No.	NO 74			
	75			
Carried to Final Summary		R		
Section No. 4 Bill No. 1				
Provisional Sums				
Quantum Built & Environment Consultants				



	FINAL SUMMARY			
Section No		Page No		Amount
1	Preliminaries	40		
2	Building Works	51		
3	External Works	73		
4	Provisional Sums	76		
	Sub Total		R	
	ADD: Contingencies @ 5%		R	
	Sub Total		R	
	VAT @ 15%		R	
	Carried to Form of Tender		R	
	Quantum Built & Environment Consultants			