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SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCHOOL

SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCHOOL BILL NO. 1 PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

- 1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contracts 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. The tenderor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause. The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.
- 4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.
- 5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.
- 6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary forthe carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.
- 7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.
- 8. Where any item is not relevant to this specific contract, such item is marked N/A.
- 9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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Section No. 1 Bill No. 1 Preliminaries

	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT		
	DEFINITIONS		
	A1 DEFINITIONS AND INTERPRETATION		
	Clause 1.0:		
1	Fixed: Value related: Time related:0	Item	
	OBJECTIVE AND PREPARATION		
	A2 OFFER, ACCEPTANCE AND PERFORMANCE		
	Clause 2.0		
2	Fixed: Value related: Time related:	Item	
	A3 DOCUMENTS		
	Clause 3.0		
	Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'		
	Clause 3.3 is deleted and substituted with:		
	The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'		
3	Fixed: Value related: Time related:	Item	
	A4 DESIGN RESPONSIBILITY		
	Clause 4.0		
4	Fixed: Value related: Time related:	Item	
	A5 EMPLOYERS AGENTS		
	Clause 5.0		
5	Fixed: Value related: Time related:	Item	
	A6 SITE REPRESENTATIVE		
	Clause 6.0		
6	Fixed: Value related: Time related:	Item	
	A7 COMPLIANCE WITH REGULATIONS		
7	Fixed: Value related: Time related:	Item	
	Clause 7.0		
8	Fixed: Value related: Time related:	Item	
	A8 WORKS RISK		
	Clause 8.0		
9	Fixed: Value related: Time related:	Item	
	Carried to Collection	R	
	Section No. 1 Bill No. 1		
	Preliminaries		
	3		

	A9 INDEMNITIES		
	Clause 9.0		
	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'.		
10	Fixed: Value related: Time related:	Item	
	A10 WORKS INSURANCES		
	<u>Clause 10.0</u>		
11	Fixed: Value related: Time related:	Item	
	A11 LIABILITY INSURANCES		
	<u>Clause 11.0</u>		
12	Fixed: Value related: Time related:	Item	
	A12 EFFECTING INSURANCES		
	<u>Clause 12.0</u>		
13	Fixed: Value related: Time related:	Item	
	A13. No clause		
14	Fixed: Value related: Time related:	Item	
	A14 SECURITY		
	<u>Clause 14.0</u>		
15	Fixed: Value related: Time related:	Item	
	EXECUTION		
	A15 PREPERATION FOR AND EXECUTION OF THE WORKS		
	<u>Clause 15.0</u>		
16	Fixed: Value related: Time related:	Item	
	A16 ACCESS TO THE WORKS		
	<u>Clause 16.0</u>		
17	Fixed: Value related: Time related:	Item	
	A17 CONTRACT INSTRUCTIONS		
	<u>Clause 17.0</u>		
18	Fixed: Value related: Time related:	Item	
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	Section No. 1		
	Bill No. 1 Preliminaries		
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	A18 SETTING OUT OF THE WORKS			
	<u>Clause 18.0</u>			
	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			
19	Fixed: Value related: Time related:	Item		
	A19 ASSIGNMENT			
	Clause 19.0			
20	Fixed: Value related: Time related:	Item		
	A20 NOMINATED SUB-CONTRACTORS			
	Clause 20.0			
21	Fixed: Value related: Time related:	Item		
	A21 SELECTED SUBCONTRACTORS			
	Clause 21.0			
22	Fixed: Value related: Time related:	Item		
	A22 EMPLOYER'S DIRECT CONTRACTORS			
	<u>Clause 22.0</u>			
23	Fixed: Value related: Time related:	Item		
	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS			
	<u>Clause 23.0</u>			
24	Fixed: Value related: Time related:	Item		
	COMPLETION			
	A24 PRACTICAL COMPLETION			
	<u>Clause 24.0</u>			
25	Fixed: Value related: Time related:	Item		
	A25 WORK'S COMPLETION			
	<u>Clause 25.0</u>			
26	Fixed: Value related: Time related:	Item		
	A26 FINAL COMPLETION			
	<u>Clause 26.0</u>			
27	Fixed: Value related: Time related:	Item		
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	Bill No. 1			
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	A27 LATENT DEFECTS LIABILITY PERIOD		
	Clause 27.0		
	Clause 27.0 is amended by the addition of the following clauses:		
	"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".		
	"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accummulates in order to attend to a comprehensive list of defects"		
28	Fixed: Value related: Time related:	Item	
	A28 SECTIONAL COMPLETION		
	<u>Clause 28.0</u>		
29	Fixed: Value related: Time related:	Item	
	A29 REVISION OF DATE FOR PRACTICAL COMPLETION		
	<u>Clause 29.0</u>		
30	Fixed: Value related: Time related:	Item	
	A30 PENALTY FOR NON-COMPLETION		
	<u>Clause 30.0</u>		
31	Fixed: Value related: Time related:	Item	
	PAYMENT		
	A31 INTERIM PAYMENT TO THE CONTRACTOR		
	<u>Clause 31.0</u>		
	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.		
32	Fixed: Value related: Time related:	Item	
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	A32 ADJUSTMENT TO THE CONTRACT VALUE		
	<u>Clause 32.0</u>		
33	Fixed: Value related: Time related:	Item	
	A33 RECOVERY OF EXPENSE AND LOSS		
	<u>Clause 33.0</u>		
34	Fixed: Value related: Time related:	Item	
	A34 FINAL ACCOUNT AND FINAL PAYMENT		
	<u>Clause 34.0</u>		
35	Fixed: Value related: Time related:	Item	
	A35 PAYMENT TO OTHER PARTIES		
	<u>Clause 35.0</u>		
36	Fixed: Value related: Time related:	Item	
	CANCELLATION		
	A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT		
	Clause 36.0		
37	Fixed: Value related: Time related:	Item	
	A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE		
	Clause 37.0		
38	Fixed: Value related: Time related:	Item	
	A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT		
	Clause 38.0		
39	Fixed: Value related: Time related:	Item	
	A39 CANCELLATION - CESSATION OF THE WORKS		
	Clause 39.0		
40	Fixed: Value related: Time related:	Item	
	<u>DISPUTE</u>		
	A40 DISPUTE SETTLEMENT		
	Clause 40.0		
41	Fixed: Value related: Time related:	Item	
	SUBSTITUTE PROVISIONS		
	A41 STATE CLAUSES		
	<u>Clause 41.0</u>		
42	Fixed: Value related: Time related:	Item	
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	CONTRACT VARIABLES		
	THE SCHEDULE (C1.2 CONTRACT DATA)		
	A42 PRE-TENDER INFORMATION		
	Clause 42.0		
	Tenderers are referred to the document C1.2 Contract Data for variables		
	pertaining to this contract.		
43	Fixed: Value related: Time related:	Item	
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	B1.1 Definitions and interpretation		
44	Fixed: Value related: Time related:	Item	
	B2.0 DOCUMENTS		
	B2.1 Checking of documents		
	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.		
45	Fixed: Value related: Time related:	Item	
	B2.2 Provisional bills of quantities		
	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.		
46	Fixed: Value related: Time related:	Item	
	B2.3 Availability of construction documentation		
47	Fixed: Value related: Time related:	Item	
	B2.4 Interests of agents		
48	Fixed: Value related: Time related:	Item	
	B2.5 Priced documents		
49	Fixed: Value related: Time related:	Item	
	B2.6 Tender submission		
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.		
50	Fixed: Value related: Time related:	Item	
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	Do a THE CITE		
	B3.0 THE SITE B3.1 Defined works area		
	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.		
51	Fixed: Value related: Time related:	Item	
	B3.2 Geotechnical investigation		
52	Fixed: Value related: Time related:	Item	
	B3.3 Inspection of the site		
53	Fixed: Value related: Time related:	Item	
	B3.4 Existing premises occupied		
54	Fixed: Value related: Time related:	Item	
	B3.5 Previous work - dimensional accuracy		
55	Fixed: Value related: Time related:	Item	
	B3.6 Previous work - defects		
56	Fixed: Value related: Time related:	Item	
	B3.7 Services - known		
57	Fixed: Value related: Time related:	Item	
	B3.8 Services - unknown		
58	Fixed: Value related: Time related:	Item	
	B3.9 Protection of trees		
59	Fixed: Value related: Time related:	Item	
	B3.10 Articles of value		
60	Fixed: Value related: Time related:	Item	
	B3.11 Inspection of adjoining properties		
61	Fixed: Value related: Time related:	Item	
01		itom	
	B4.0 MANAGEMENT OF CONTRACT B4.1 Management of the works		
62	Fixed: Value related: Time related:	Item	
02	Tixod valde foldted fille foldted	Rom	
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	D4.0 Brownson for the coords			
63	B4.2 Programme for the works Fixed: Value related:	_ Time related:	Item	
	B4.3 Progress meetings			
64	Fixed: Value related:	Time related:	Item	
			Itom	
65	B4.4 Technical meetings Fixed: Value related:	Time related:	Itom	
65		_ Time related	Item	
	B4.5 Labour and plant records			
66	Fixed: Value related:	_ Time related:	Item	
	B5.0 SAMPLES, SHOP DRAWING INSTRUCTIONS	GS AND MANUFACTURERS'		
	B5.1 Samples of materials			
67	Fixed: Value related:	_ Time related:	Item	
	B5.2 Workmanship samples			
68	Fixed: Value related:	Time related:	Item	
	B5.3 Shop drawings		itom	
69	Fixed: Value related:	Time related:	Item	
			illoini	
70	B5.4 Compliance with manufact		ltono	
70	Fixed: Value related:		Item	
	B6.0 TEMPORARY WORKS AND	<u> PLANT</u>		
	B6.1 Deposits and fees			
71	Fixed: Value related:	_ Time related:	Item	
	B6.2 Enclosure of the works			
	safety screens, barriers, access ga	n and remove at completion, hoardings, tes, covered gangways and the like as works and elements thereof all for the		
72	Fixed: Value related:	_ Time related:	Item	
	B6.3 Advertising			
73	Fixed: Value related:	_Time related:	Item	
	B6.4 Plant, equipment, sheds ar	nd offices		
74	Fixed: Value related:	_ Time related:	Item	
	B6.5 Main notice board			
75	Fixed: Value related:	_ Time related:	Item	
		Carried to Collection	n R	
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B6.6 Subcontractors\rquote notice board	
Fixed: Value related: Time related:	ltem
B7.0 TEMPORARY SERVICES	
B7.1 Location	
Fixed: Value related: Time related:	Item
B7.2 Water	
The contractor shall provide water for the works in accordance w	with:
Alternative A (i.e. to be provided for by the Contractor).	viui.
Fixed: Value related: Time related:	Item
	itom
B7.3 Electricity	
The contractor shall provide electricity for the works in accordance	ce with:
Alternative A (i.e. to be provided for by the Contractor).	
Fixed: Value related: Time related:	ltem
B7.4 Telecommunication facilities	
The contractor shall provide telephones on site for the works in a with:	accordance
Alternative A (i.e. to be provided for by the Contractor).	
Fixed: Value related: Time related:	ltem
B7.5 Ablution facilities	
The contractor shall provide toilet facilities on site for the works in accordance with:	n
Alternative A (i.e. to be provided for by the Contractor).	
Fixed: Value related: Time related:	ltem
B8.0 PRIME COST AMOUNTS	
B8.1 Responsibility for prime cost amounts	
Fixed: Value related: Time related:	Item
9.0 ATTENDANCE ON N/S SUBCONTRACTORS	
B9.1 General attendance Fixed: Value related: Time related:	Itom
	Item
B9.2 Special attendance	
Fixed: Value related: Time related:	ltem
B9.3 Commissioning - fuel, water and electricity	
Fixed: Value related: Time related:	Item
Carried	to Collection R
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	B10.0 FINANCIAL ASPECTS		
	B10.1 Statutory taxes, duties and levies		
86	Fixed: Value related: Time related:	Item	
	B10.2 Payment for preliminaries		
87	Fixed: Value related: Time related:	Item	
	B10.3 Adjustment of preliminaries		
88	Fixed: Value related: Time related:	Item	
	B10.4 Payment certificate cash flow		
89	Fixed: Value related: Time related:	Item	
	B11. GENERAL		
	B11.1 Protection of the works		
90	Fixed: Value related: Time related:	Item	
	B11.2 Protection / isolation of existing / sectionally occupied works		
91	Fixed: Value related: Time related:	Item	
	B11.3 Security of the works		
92	Fixed: Value related: Time related:	Item	
	B11.4 Notice before covering work		
93	Fixed: Value related: Time related:	Item	
	11.5 Disturbance		
94	Fixed: Value related: Time related:	Item	
	B11.6 Environmental disturbance		
95	Fixed: Value related: Time related:	Item	
	B11.7 Works cleaning and clearing		
96	Fixed: Value related: Time related:	Item	
	B11.8 Vermin		
97	Fixed: Value related: Time related:	Item	
	B11.9 Overhand work		
98	Fixed: Value related: Time related:	Item	
	B11.10 Instruction manuals and guarantees		
99	Fixed: Value related: Time related:	Item	
	B11.11 As built information		
100	Fixed: Value related: Time related:	Item	
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	B11.12 Tenant installations		
101	Fixed: Value related: Time related:	Item	
	SECTION C: SPECIFIC PRELIMINARIES		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.		
	C1 CONTRACT DRAWINGS		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.		
102	Fixed: Value related: Time related:	Item	
	C2 GENERAL PREAMBLES		
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Departtment, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.		
103	Fixed: Value related: Time related:	Item	
	C3 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.		
	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.		
104	Fixed: Value related: Time related:	Item	
	Carried to Collection	R	
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	Bill No. 1		
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	C4 CONTRACTOR'S 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			
105	Fixed: Value related: Time related:	Item		
	C5 OVERTIME			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
106	Fixed: Value related: Time related:	Item		
	C6 AS BUILT DRAWINGS			
	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
	Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion			
107	Fixed: Value related: Time related:	Item		
	C7 CONTRACT INSTRUCTIONS			
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
	a) Contract Instruction Book			
	Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
	Only instructions issued in such book shall be recognised.			
	b) Daily Record Book			
	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
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108	Fixed: Value related: Time related:	Item		
	C8 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			
109	F: V: T:	Item		
	C9 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.			
110	F: V: T:	Item		
	C10 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			
111	F: V: T:	Item		
	C11 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.			
112	F: V: T:	Item		
	C12 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.			
113	F: V: T:	Item		
	C13 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.			
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114	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:	ltem		
115	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	Item		
115	C15 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]			
116	F:	Item		
117	F:	Item		
118	F: V: T:	Item		
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SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCI BILL NO. 1 PRELIMINARIES COLLECTION	HOOL Brought Forward from Page	Page No 2	
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		Unit	Quantity	Rate	Amount
	SECTION NO. 1				
	ST MICHAEL'S JUNIOR SECONDARY SCHOOL				
	BILL NO. 2				
	HEALTH AND SAFETY				
	MODEL PREAMBLES				
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.				
	SUPPLEMENTARY PREAMBLES				
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.				
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.				
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.				
	OCCUPATIONAL HEALTH AND SAFETY				
	General				
1	Preparation of Contractor's site specific Health and Safety Plan	Item			
2	Submission of the Health and Safety File	Item			
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations	Item			
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period	Item			
5	Provision of full time Health and Safety Officer for the entire construction period	Item			
6	Induction training of all personnel	Item			
7	Provision of first aid boxes	Item			
	Corried to Callection			-	
	Carried to Collection Section No. 1			R	
	Bill No. 2				
	Health And Safety				
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		Unit	Quantity	Rate	Amount	
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150			
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high	No	1			
	Provision for Personal Protective Equipment and					
10	Reflective vests.	Item				
11	Hard hats	Item				
12	Protective footwear	Item				
13	Ear plugs	Item				
14	Dust masks	Item				
	Medical certificates and medical surveillance					
15	Initial (baseline) medical examinations for all personnel	Item				
16	Exit Examinations for all personnel	Item				
	Noise Monitoring					
17	Establishment of noise zones	Item				
18	Audiograms	Item				
	Covid-19 Compliance Measures					
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements	Item				
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	Section No. 1 Bill No. 2					
	Health And Safety					
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SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY S BILL NO. 2 HEALTH AND SAFETY COLLECTION	CHOOL Brought Forward from Page	Page No 18 19	
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		Unit	Quantity	Rate	Amount
	SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCHOOL BILL NO. 3 RENOVATIONS				
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
	SUPPLEMENTARY PREAMBLES				
	<u>View site</u>				
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained				
	General				
	Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent				
	MAKING GOOD OF EXISTING WORK				
	Making good VIP pedestals				
1	Secure loosely fitted pit pedestals by bolting down securely or applying an cement/ epoxy based industrial adhesive	No	11		
	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	Remove damaged VIP 450 pit pedestals, prepare suface to receive new VIP 450 pit pedestal (new pedestal measured elsewhere)	No	3		
3	Remove VIP 200 pit pedestals, prepare suface to receive new VIP 450 pit pedestal (new pedestal measured elsewhere)	No	3		
	Carried to Collection			R	
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	Bill No. 3				
	Renovations				
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		Unit	Quantity	Rate	Amount
4	PVC urinal traps	No	5		
5	Damaged 110mm vent pipes	m	4		
	Making good existing security gates				
6	Repair loose hanging or fallen gates by making good brick walls and then re-installing gates into position with new 13mm diameter x 90mm long expansion applied to existing gate hinges	No	3		
	Making good existing timber doors and frames				
7	Making good good falling doors where plugs to walls have failed by repositioning existing timber door frames and secure by installing new anchors/ plugs including refitting doors to hinges and frames.	No	3		
	BATHROOM FITTINGS				
	Stainless steel bathroom fittings				
8	Free standing She Bin: manufactured from Grade 304 1,2mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity	No	7		
	GALVANISED STEEL GATES, SCREENS, ETC				
	Welded screens and gates to walls				
9	Entrance single gate size 1,040 x 2,125mm high formed of 25 x 25 x 1.6mm hollow square section framing to detail, with expanded metal mesh welded to inside frame, with 10 x 30mm flat bar shaped to detail and 12mm solid rods welded horizontally, with stainless steel shackle for locking mechanism, with 38 x 38 x 10mm thick plates as hinges with rounded ends to one side and hole for 18mm diameter pin hung on pair of socketted and pinned hinges with pin 18 mm in diameter and bolted to brick wall, with 200mm locking bolt welded on, or other Architect approved hinges	No	1		
	SANITARY FITTINGS				
10	Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc. VIP 450 Pit pedestal complete with integral tlap four				
	times plugged to floor with and including 6 x 75mm masonry anchors.	No	3		
	TRAPS ETC				
	<u>Traps</u>				
11	40mm Chromium plated bottle trap	No	5		
	Comind to Callestina				
	Section No. 1 Bill No. 3 Renovations			R	
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		Unit	Quantity	Rate	Amount	
	TAP STANDS					
	Two 20mm brass bib-taps in tap stands formed of 110mm diameter PVC pipes encased in concrete and cast into the ground complete with connecting to existing tanks with 12m long 20mm HDPE pipes in and including trenches backfilled					
12	700mm High tap stands complete	No	2			
	SANITARY PLUMBING					
	PVC-U soil and vent pipes					
13	110mm Pipes	m	4			
	Extra over PVC-U soil and vent pipes for fittings					
14	Install new brackets/ holder bats anchored to brick walls around existing 110mm diameter vent pipes	No	8			
15	110mm Air vent whirlybird	No	2			
	PREAMBLES					
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SECTION NO. 1 ST MICHAEL'S JUNIOR S BILL NO. 3 RENOVATIONS COLLECTION	SECONDARY SCHOOL Brought Forward from Page	Page No 21 22 23	
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 1					
	ST MICHAEL'S JUNIOR SECONDARY SCHOOL					
	BILL NO. 4					
	GARDEN AND BALUSTRADE WALLS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	EARTHWORKS (PROVISIONAL)					
	Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:					
1	Surface trenches.	m³	54			
	Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:					
2	Soft rock.	m³	5			
3	Hard rock.	m³	1			
4	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m²	217			
5	Allow for keeping excavations entirely free from water or mud.	Item				
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density					
6	Backfilling to trenches, holes, etc.	m³	10			
7	Scarify in-situ material for a depth of 150mm and compact to obtain 98% modified AASHTO dry density.	m²	91			
	Earth filling supplied by the contractor, compacted to 98% Mod AASHTO density					
8	Under floors, steps, pavings, etc.	m³	10			
	Carried to Collection			R		
	Section No. 1					
	Bill No. 4					
	Garden And Balustrade Walls					
	25					

		Unit	Quantity	Rate	Amount	
	CONCRETE, FORMWORK & REINFORCEMENT					
	25MPa Mass concrete in:					
9	Wall footings cast against excavated surfaces.	m³	18			
	Expansion Joints:					
10	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	181			
	TEST CUBES					
	<u>Test Cubes</u>					
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	6			
	MASONRY					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar					
12	One brick wall.	m²	202			
	2,5mm Galvanised brick reinforcement					
13	150mm Wide reinforcement built in horizontally	m	543			
	Facings Externally:					
	"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):					
14	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m²	267			
15	Brick on edge coping in header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.					
	pointed on top and both sides as described.	m	181			
	PAINTING Clean down with Spirits of Salts solution and apply					
	two coats silicone-based brick dressing on:					
16	Clinker brick facings (Externally).	m²	267			
	Carried to Collection			R		
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	Bill No. 4					
	Garden And Balustrade Walls					
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	Unit	Quantity	Rate	Amount
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ST MICHAEL'S JUNIOR SECONDARY SCHOOL				
BILL NO. 5 V-DRAINS				
<u>V-DRAINS</u>				
PREAMBLES				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
SUPPLEMENTARY PREAMBLES				
Nature of ground:				
The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock'				
Carting away of excavated material:				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
Filling:				
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material				
Testing:				
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)				
Carried to Collection			R	
Section No. 1				
Bill No. 5				
V-drains				
28				

		Unit	Quantity	Rate	Amount
	EXCAVATION ETC				
1	Excavation in earth not exceeding 2m deep Reduced levels under pavings	m³	29		
'	, -	1119	29		
	Extra over all excavations for carting away				
2	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	29		
	FILLING ETC OTHER THAN BULK				
	Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density				
3	Under floors, steps, pavings, etc.	m³	19		
	Coarse river sand filling supplied by the contractor				
4	Under pavings etc.	m³	6		
	Compaction of surfaces				
5	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density	m²	124		
	Prescribed density tests on filling				
6	Modified AASHTO Density test	No	8		
	DAMPPROOFING OF WALLS AND FLOORS				
	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape				
7	Under surface pavings etc.	m²	124		
	STORMWATER DRAINAGE (PROVISIONAL)				
	Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar:				
8	Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway.	m	177		
9	Extra for angle.	No	6		
10	Extra for irregular T-intersection.	No	1		
	Carried to Collection			R	
	Section No. 1				
	Bill No. 5				
	V-drains 29				
- 1			1 1		I I

		Unit	Quantity	Rate	Amount	
11	Extra for fair end.	No	3			
12	Extra for 1000mm long x 2700mm wide outlet with 300mm deep x 300mm wide thickened edge and thirteen number 150 x 150 x 150mm concrete block energy dissipaters set into in-situ concrete draining off to and including a 2700 x 600 x 100mm thick bed formed of 19mm diameter stones	No				
		No	2			
13	Stormwater dish drain size 900 x 600 x 900mm wide (2400 wide overall) x 300mm deep with 2400 x 150mm deep waterway.	m	1			
	TEST CUBES					
	<u>Test Cubes</u>					
14	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	8			
	REINFORCEMENT (CPAP WORK GROUP NO. 114)					
	Fabric reinforcement					
15	Type 617 fabric reinforcement in concrete dish drains etc	m²	124			
	THE FOLLOWING IN EARTH DRAINS					
	Bulk excavation in earth					
16	Earth drains/ channels not exceeding 2m deep	m³	50			
17	Carting away material arising from excavations	m³	50			
	Carried to Collection Section No. 1			R		
	Bill No. 5					
	V-drains					
	30					

SECTION NO. 1 ST MICHAEL'S JUNIOR S BILL NO. 5 V-DRAINS COLLECTION	Brought Forward from Page	Page No 28 29 30	
	Carried To Section Summary	R	
Section No. 1 Bill No. 5 V-drains			
	31		

		Unit	Quantity	Rate	Amount	
	SECTION NO. 1					
	ST MICHAEL'S JUNIOR SECONDARY SCHOOL					
	BILL NO. 6 CONCRETE WALKWAYS & RAMPS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	EARTHWORKS (PROVISIONAL)					
	Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density					
1	Under floors, steps, pavings, etc.	m³	4			
	CONCRETE, FORMWORK & REINFORCEMENT					
	25MPa Mass concrete in:					
2	Ramps	m³	5			
3	APRONS	m³	1			
	Sundries:					
4	Strike off and cure tops of surface beds laid in panels approximately 1000mm long x 1000mm wide to uniform levels including all necessary formwork to form toggle joints to temporary construction joints to falls.	m²	34			
5	Extra for floating off smooth tops of surface beds laid in					
	panels ta brush finish including slightly rounded edges to panels.	m²	34			
			04			
6	Expansion Joints: 12mm "Flexcell" or other approved cane fibre filler board					
0	in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	125			
	TEST CUBES					
	<u>Test Cubes</u>					
7	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3			
	Carried to Collection			R		
	Section No. 1					_
	Bill No. 6					
	Concrete Walkways & Ramps 32					
	32				ıl İ	

		Unit	Quantity	Rate	Amount	
	OMOGELL FORMWORK (PEOPES OF ACCURACY II)					
	SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)					
	Smooth formwork to sides					
8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	32			
	REINFORCEMENT (CPAP WORK GROUP NO. 114)					
	Fabric reinforcement					
9	Type 617 fabric reinforcement in concrete surface beds etc	m²	188			
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape					
10	Under surface pavings etc.	m²	188			
	Carried to Collection			R		
	Section No. 1					
	Bill No. 6 Concrete Walkways & Ramps					
	33					

SECTION NO. 1 ST MICHAEL'S JUNIOR S BILL NO. 6 CONCRETE WALKWAYS COLLECTION	& RAMPS Brought Forward from Page	Page No 32 33	
Section No. 1	Carried To Section Summary	R	
Section No. 1 Bill No. 6			
Concrete Walkways & Ram	ps 34		
	34		

		Unit	Quantity	Rate	Amount	
	SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCHOOL BILL NO. 7 SUBSOIL DRAINAGE PREAMBLES The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Ougstity Surveyors, the document "PW 371. A Edition	Unit	Quantity	Kate	Amount	
	Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities SUPPLEMENTARY PREAMBLES					
	THE FOLLOWING IN STORMWATER SOAKAWAYS					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m²	2			
	Subsoil drainage					
	Laying, backfilling, bedding, etc. of pipes					
2	Excavation in earth not exceeding 2m deep for pipe trenches and holes	m³	2			
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled					
	As-built drawings:					
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)					
	SUBSOIL DRAINAGE (CPAP WORK GROUP NO. 146)					
	Site clearance					
3	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding					
	200mm girth	m²	122			
					-	
	Carried to Collection			R		
	Section No. 1 Bill No. 7					
	Subsoil Drainage					
	35					

		Unit	Quantity	Rate	Amount
	Subsoil drainage				
4	Subsoil drainage Excavation in earth not exceeding 2m deep for pipe trenches	m³	73		
5	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	73		
6	Risk of collapse to sides of trench and hole excavation exceeding 1.5m but not exceeding 3.0m deep	m²	324		
7	Keeping excavations free of water	Item			
8	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m³	55		
9	19mm Crushed stone encasing to pipes	m³	18		
	Slotted uPVC flexible drainage pipes				
10	160mm Pipes laid in stone encasing (encasing elsewhere)	m	180		
	Extra over slotted uPVC flexible drainage pipes for fittings				
11	110mm Bend	No	9		
	Geotextle filter fabric blanket with stiched 300mm				
12	laps Around stone filling in sub-soil drain trenches	m²	162		
12	A tourist storie mining in out con drain tronones		102		
	Carried to Collection			R	
	Section No. 1			1	
	Bill No. 7				
	Subsoil Drainage				
	36				

SECTION NO. 1 ST MICHAEL'S JUNIOR : BILL NO. 7 SUBSOIL DRAINAGE COLLECTION	SECONDARY SCHOOL Brought Forward from Page	Page No 35	
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	Carried To Section Summary	R	
Section No. 1 Bill No. 7 Subsoil Drainage	37		

		Unit	Quantity	Rate	Amount	
	OFOTION NO. 4					
	SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCHOOL					
	BILL NO. 8					
	SOAKAWAYS & CULVERTS					
	THE FOLLOWING IN STORMWATER SOAKAWAYS					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m²	2			
	Subsoil drainage					
2	Excavation in earth not exceeding 2m deep for pipe trenches and holes	m³	2			
3	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	2			
4	Risk of collapse to sides of trench and hole excavation not exceeding 1.5m deep	m²	1			
5	Risk of collapse to sides of trench and hole excavation exceeding 1.5m but not exceeding 3.0m deep	m²	7			
6	Keeping excavations free of water	Item				
7	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m³	2			
8	63mm Stone beds	m³	1			
	Geotextle filter fabric blanket with stiched 300mm					
	laps					
9	Around stone filling in sub-soil drain trenches	m²	2			
	Carried To Section Summary			R		
	Section No. 1			ĸ		
	Bill No. 8					
	Soakaways & Culverts					
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 1					
	ST MICHAEL'S JUNIOR SECONDARY SCHOOL					
	BILL NO. 9 GRADE R FENCING					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	THE FOLLOWING IN SECURITY FENCING					
	Site clearance					
1	Allow for clearing site for a width of 1m where fencing runs are to be erected including removing trees, shrubs, etc not exceeding 200mm girth, grubbing up roots and roughly levelling	m	80			
	Straining wires, fencing and razor wire					
2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	80			
3	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including staking to ground with and including Y10 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	80			
	Posts					
4	75mm Diameter galvanised steel intermediate fencing post, 2700mm fitted with a pressed steel mushroom cap, post fitted with 150 x 150 x 5mm base plate at bottom and set into the ground.	No	12			
5	150mm Ditto as standard post but embedded in 600 x					
	600 x 700mm high mass concrete (15MPa) base	No	4			
	Carried to Collection			R		
	Section No. 1					
	Bill No. 9					
	Grade R Fencing					
	39		1		.1	

		Unit	Quantity	Rate	Amount	
6	150mm Ditto as straining or corner posts, but fitted with two 75mm diameter galvanised steel raking stays and with top ends flattened and bolted through post with post embedded in 600 x 600 x 700mm high mass concrete (15MPa) base and stays embedded in 700 x 700 x 450mm high mass concrete (15MPa) base	No				
7	150mm Ditto as end/ gate post, but fitted with one 75mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post embedded in 600 x 600 x 700mm mass concrete (15MPa) base and stay embedded in 700 x 700 x 450mm high mass concrete (15MPa) base with all base tops set raking (sloping)	No No	5			
8	Gates Security fence single gate, size 900 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, with 20mm diameter x 300mm long locking bolt welded on and a pair of heavy duty gate hooks for a 16mm band hinge pin welded on to gate and including a pair of 16mm band hinge pins bolted to gate posts	No	1			
9	Security fence single gate, size 1500 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall and with 20mm diameter x 300mm long locking bolt welded on.	No	1			
10	Double gate, size 6 000 mm wide x 1 800 mm high overall in two leaves, formed of 50 mm diameter nominal bore x 2.5 mm wall thickness hot dip galvanised mild steel pipe framing all round with 25 mm diameter nominal bore x 2.0 mm wall thickness diagonal and centre braces, scribed and welded into angles and at cross intersections, gate filled with 50 x 50 x 2,0mm galvanised wire diamond mesh, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, each leaf fitted with two 25 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1			
	Conviced to Collection		·			
	Carried to Collection Section No. 1 Bill No. 9 Grade R Fencing 40			R		

		Unit	Quantity	Rate	Amount
11	Locks 50mm "Viro" or other equally approved padlocks for external use.	No	3		
	Carried to Collection Section No. 1 Bill No. 9 Grade R Fencing 41			R	

SECTION NO. 1 ST MICHAEL'S JUNIOR S BILL NO. 9 GRADE R FENCING COLLECTION	SECONDARY SCHOOL Brought Forward from Page	Page No 39	
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	SECTION NO. 1			
	ST MICHAEL'S JUNIOR SECONDARY SCHOOL			
	BILL NO. 10			
	PROVISIONAL SUMS			
	PROVISIONAL SUMS			
	Supplementary Preambles			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related therto.			
	BUDGETARY ALLOWANCES			
	Sundry building work			
1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)	Item	22 500	00
2	Profit	Item		
3	Attendance	Item		
4	Provide the sum of R105 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period	Item	105 000	00
5	Profit	Item		
6	Attendance	Item		
		itom		
7	Provide the sum of R20 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required	Item	20 000	00
8	Profit	Item		
9	Attendance	Item		
10	Provide the sum of R120 000. 00 for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out	Item	120 000	00
11	Profit	Item	120 000	00
12	Attendance	Item		
	Carried to Collection			
	Section No. 1	R		
	Bill No. 10			
	Provisional Sums			
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13	Contingencies Allow the Amount of R40 000.00 (Forty Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.	ltem	40 000	00
	Carried to Collection	R		
	Section No. 1 Bill No. 10 Provisional Sums			

SECTION NO. 1 ST MICHAEL'S JUNIOR SECONDARY SCH BILL NO. 10 PROVISIONAL SUMS COLLECTION	<u>ool</u>	Page No	
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SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL

SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL BILL NO. 1 PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

- 1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contracts 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. The tenderor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause. The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.
- 4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.
- 5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.
- 6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary forthe carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.
- 7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.
- 8. Where any item is not relevant to this specific contract, such item is marked N/A.
- 9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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Section No. 2 Bill No. 1 Preliminaries

	OFOTION A IDOO BRINGIDAL BUILDING AGREEMENT		
	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT		
	DEFINITIONS A1 DEFINITIONS AND INTERPRETATION		
	Clause 1.0:		
1	Fixed: Value related: Time related:0	Item	
		itteriii	
	OBJECTIVE AND PREPARATION AS OFFER ACCEPTANCE AND REPEOPMANCE		
	A2 OFFER, ACCEPTANCE AND PERFORMANCE Clause 2.0		
2	Fixed: Value related: Time related:	Item	
	A3 DOCUMENTS		
	Clause 3.0		
	Clause 3.1 is deleted and substituted with: 'This tender is for a Government		
	Contract. No Payment Guarantee will be provided.'		
	Clause 3.3 is deleted and substituted with:		
	The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'		
3	Fixed: Value related: Time related:	Item	
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	A4 DESIGN RESPONSIBILITY Clause 4.0		
4	Clause 4.0 Fixed: Value related: Time related:	Item	
4		item	
	A5 EMPLOYERS AGENTS		
اء	Clause 5.0 Fixed: Value related: Time related:	lt a na	
5		Item	
	A6 SITE REPRESENTATIVE		
	Clause 6.0		
6	Fixed: Value related: Time related:	Item	
	A7 COMPLIANCE WITH REGULATIONS		
7	Fixed: Value related: Time related:	Item	
	<u>Clause 7.0</u>		
8	Fixed: Value related: Time related:	Item	
	A8 WORKS RISK		
	Clause 8.0		
9	Fixed: Value related: Time related:	Item	
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	Preliminaries		
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	A9 INDEMNITIES		
	Clause 9.0		
	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'.		
10	Fixed: Value related: Time related:	Item	
	A10 WORKS INSURANCES		
	<u>Clause 10.0</u>		
11	Fixed: Value related: Time related:	Item	
	A11 LIABILITY INSURANCES		
	Clause 11.0		
12	Fixed: Value related: Time related:	Item	
	A12 EFFECTING INSURANCES		
	Clause 12.0		
13	Fixed: Value related: Time related:	Item	
	A13. No clause		
14	Fixed: Value related: Time related:	Item	
	A14 SECURITY		
	Clause 14.0		
15	Fixed: Value related: Time related:	Item	
	EXECUTION		
	A15 PREPERATION FOR AND EXECUTION OF THE WORKS		
	Clause 15.0		
16	Fixed: Value related: Time related:	Item	
	A16 ACCESS TO THE WORKS		
	Clause 16.0		
17	Fixed: Value related: Time related:	Item	
	A17 CONTRACT INSTRUCTIONS		
	Clause 17.0		
18	Fixed: Value related: Time related:	Item	
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	A18 SETTING OUT OF THE WORKS		
	<u>Clause 18.0</u>		
	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		
19	Fixed: Value related: Time related:	Item	
	A19 ASSIGNMENT		
	<u>Clause 19.0</u>		
20	Fixed: Value related: Time related:	Item	
	A20 NOMINATED SUB-CONTRACTORS		
	Clause 20.0		
21	Fixed: Value related: Time related:	Item	
	A21 SELECTED SUBCONTRACTORS		
	<u>Clause 21.0</u>		
22	Fixed: Value related: Time related:	Item	
	A22 EMPLOYER'S DIRECT CONTRACTORS		
	<u>Clause 22.0</u>		
23	Fixed: Value related: Time related:	Item	
	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS		
	<u>Clause 23.0</u>		
24	Fixed: Value related: Time related:	Item	
	COMPLETION		
	A24 PRACTICAL COMPLETION		
	<u>Clause 24.0</u>		
25	Fixed: Value related: Time related:	Item	
	A25 WORK'S COMPLETION		
	<u>Clause 25.0</u>		
26	Fixed: Value related: Time related:	Item	
	A26 FINAL COMPLETION		
	<u>Clause 26.0</u>		
27	Fixed: Value related: Time related:	Item	
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	A27 LATENT DEFECTS LIABILITY PERIOD		
	<u>Clause 27.0</u>		
	Clause 27.0 is amended by the addition of the following clauses:		
	"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".		
	"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accummulates in order to attend to a comprehensive list of defects"		
28	Fixed: Value related: Time related:	Item	
	A28 SECTIONAL COMPLETION		
	Clause 28.0		
29	Fixed: Value related: Time related:	Item	
	A29 REVISION OF DATE FOR PRACTICAL COMPLETION		
	Clause 29.0		
30	Fixed: Value related: Time related:	Item	
	A30 PENALTY FOR NON-COMPLETION		
	Clause 30.0		
31	Fixed: Value related: Time related:	Item	
	PAYMENT		
	A31 INTERIM PAYMENT TO THE CONTRACTOR		
	Clause 31.0		
	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.		
32	Fixed: Value related: Time related:	Item	
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	A32 ADJUSTMENT TO THE CONTRACT VALUE			
	<u>Clause 32.0</u>			
33	Fixed: Value related: Time related:	Item		
	A33 RECOVERY OF EXPENSE AND LOSS			
	<u>Clause 33.0</u>			
34	Fixed: Value related: Time related:	Item		
	A34 FINAL ACCOUNT AND FINAL PAYMENT			
	<u>Clause 34.0</u>			
35	Fixed: Value related: Time related:	Item		
	A35 PAYMENT TO OTHER PARTIES			
	<u>Clause 35.0</u>			
36	Fixed: Value related: Time related:	Item		
	CANCELLATION			
	A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT			
	Clause 36.0			
37	Fixed: Value related: Time related:	Item		
	A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE			
	Clause 37.0			
38	Fixed: Value related: Time related:	Item		
	A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT			
	Clause 38.0			
39	Fixed: Value related: Time related:	Item		
	A39 CANCELLATION - CESSATION OF THE WORKS			
	Clause 39.0			
40	Fixed: Value related: Time related:	Item		
	<u>DISPUTE</u>			
	A40 DISPUTE SETTLEMENT			
	Clause 40.0			
41	Fixed: Value related: Time related:	Item		
	SUBSTITUTE PROVISIONS			
	A41 STATE CLAUSES			
	Clause 41.0			
42	Fixed: Value related: Time related:	Item		
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	CONTRACT VARIABLES		
	THE SCHEDULE (C1.2 CONTRACT DATA)		
	A42 PRE-TENDER INFORMATION		
	Clause 42.0		
	Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.		
43	Fixed: Value related: Time related:	Item	
	SECTION B: JBCC PRELIMINARIES		
	B1.0 DEFINITIONS AND INTERPRETATION		
	B1.1 Definitions and interpretation		
44	Fixed: Value related: Time related:	Item	
	B2.0 DOCUMENTS		
	B2.1 Checking of documents		
	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.		
45	Fixed: Value related: Time related:	Item	
	B2.2 Provisional bills of quantities		
	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.		
46	Fixed: Value related: Time related:	Item	
	B2.3 Availability of construction documentation		
47	Fixed: Value related: Time related:	Item	
	B2.4 Interests of agents		
48	Fixed: Value related: Time related:	Item	
	B2.5 Priced documents		
49	Fixed: Value related: Time related:	Item	
	B2.6 Tender submission		
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.		
50	Fixed: Value related: Time related:	Item	
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	DO O THE CITE		
	B3.0 THE SITE B3.1 Defined works area		
	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.		
51	Fixed: Value related: Time related:	Item	
	B3.2 Geotechnical investigation		
52	Fixed: Value related: Time related:	Item	
	B3.3 Inspection of the site		
53	Fixed: Value related: Time related:	Item	
	B3.4 Existing premises occupied		
54	Fixed: Value related: Time related:	Item	
	B3.5 Previous work - dimensional accuracy		
55	Fixed: Value related: Time related:	Item	
	B3.6 Previous work - defects		
56	Fixed: Value related: Time related:	Item	
	B3.7 Services - known		
57	Fixed: Value related: Time related:	Item	
	B3.8 Services - unknown		
58	Fixed: Value related: Time related:	Item	
	B3.9 Protection of trees		
59	Fixed: Value related: Time related:	Item	
	B3.10 Articles of value		
60	Fixed: Value related: Time related:	Item	
	B3.11 Inspection of adjoining properties	no	
61	Fixed: Value related: Time related:	Item	
		itom	
	B4.0 MANAGEMENT OF CONTRACT B4.1 Management of the works		
62	Fixed: Value related: Time related:	Item	
02	Time related	nom	
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	B4.2 Programme for the works		
63	Fixed: Value related: Time related:	Item	
	B4.3 Progress meetings		
64	Fixed: Value related: Time related:	Item	
	B4.4 Technical meetings		
65	Fixed: Value related: Time related:	Item	
	B4.5 Labour and plant records		
66	Fixed: Value related: Time related:	Item	
	B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS'		
	INSTRUCTIONS		
	B5.1 Samples of materials		
67	Fixed: Value related: Time related:	Item	
	B5.2 Workmanship samples		
68	Fixed: Value related: Time related:	Item	
	B5.3 Shop drawings		
69	Fixed: Value related: Time related:	Item	
	B5.4 Compliance with manufacturers instructions		
70	Fixed: Value related: Time related:	Item	
	B6.0 TEMPORARY WORKS AND PLANT		
	B6.1 Deposits and fees		
71	Fixed: Value related: Time related:	Item	
	B6.2 Enclosure of the works		
	The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.		
72	Fixed: Value related: Time related:	Item	
	B6.3 Advertising		
73	Fixed: Value related: Time related:	Item	
	B6.4 Plant, equipment, sheds and offices		
74	Fixed: Value related: Time related:	Item	
	B6.5 Main notice board		
75	Fixed: Value related: Time related:	Item	
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	B6.6 Subcontractors\rquote notice board			
76	Fixed: Value related: Time related:	Item		
	B7.0 TEMPORARY SERVICES			
	B7.1 Location			
77	Fixed: Value related: Time related:	Item		
	B7.2 Water			
	The contractor shall provide water for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
78	Fixed: Value related: Time related:	Item		
	B7.3 Electricity			
	The contractor shall provide electricity for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
79	Fixed: Value related: Time related:	Item		
	B7.4 Telecommunication facilities			
	The contractor shall provide telephones on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
80	Fixed: Value related: Time related:	Item		
	B7.5 Ablution facilities			
	The contractor shall provide toilet facilities on site for the works in accordance with:			
	Alternative A (i.e. to be provided for by the Contractor).			
81	Fixed: Value related: Time related:	Item		
	B8.0 PRIME COST AMOUNTS			
	B8.1 Responsibility for prime cost amounts			
82	Fixed: Value related: Time related:	Item		
	9.0 ATTENDANCE ON N/S SUBCONTRACTORS			
	B9.1 General attendance			
83	Fixed: Value related: Time related:	Item		
	B9.2 Special attendance			
84	Fixed: Value related: Time related:	Item		
	B9.3 Commissioning - fuel, water and electricity			
85	Fixed: Value related: Time related:	Item		
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	B10.0 FINANCIAL ASPECTS		
	B10.1 Statutory taxes, duties and levies		
86	Fixed: Value related: Time related:	Item	
	B10.2 Payment for preliminaries		
87	Fixed: Value related: Time related:	Item	
	B10.3 Adjustment of preliminaries		
88	Fixed: Value related: Time related:	Item	
	B10.4 Payment certificate cash flow		
89	Fixed: Value related: Time related:	Item	
	B11. GENERAL		
	B11.1 Protection of the works		
90	Fixed: Value related: Time related:	Item	
	B11.2 Protection / isolation of existing / sectionally occupied works		
91	Fixed: Value related: Time related:	Item	
	B11.3 Security of the works		
92	Fixed: Value related: Time related:	Item	
	B11.4 Notice before covering work		
93	Fixed: Value related: Time related:	Item	
	11.5 Disturbance		
94	Fixed: Value related: Time related:	Item	
	B11.6 Environmental disturbance		
95	Fixed: Value related: Time related:	Item	
	B11.7 Works cleaning and clearing		
96	Fixed: Value related: Time related:	Item	
	B11.8 Vermin		
97	Fixed: Value related: Time related:	Item	
	B11.9 Overhand work		
98	Fixed: Value related: Time related:	Item	
	B11.10 Instruction manuals and guarantees		
99	Fixed: Value related: Time related:	Item	
	B11.11 As built information		
100	Fixed: Value related: Time related:	Item	
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	B11.12 Tenant installations		
101	Fixed: Value related: Time related:	Item	
	SECTION C: SPECIFIC PRELIMINARIES		
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.		
	C1 CONTRACT DRAWINGS		
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.		
102	Fixed: Value related: Time related:	Item	
	C2 GENERAL PREAMBLES		
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Departtment, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.		
103	Fixed: Value related: Time related:	Item	
	C3 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.		
	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.		
104	Fixed: Value related: Time related:	Item	
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	C4 CONTRACTOR'S 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		
105	Fixed: Value related: Time related:	Item	
	C5 OVERTIME		
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.		
106	Fixed: Value related: Time related:	Item	
	C6 AS BUILT DRAWINGS		
	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.		
	Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion		
107	Fixed: Value related: Time related:	Item	
	C7 CONTRACT INSTRUCTIONS		
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:		
	a) Contract Instruction Book		
	Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.		
	Only instructions issued in such book shall be recognised.		
	b) Daily Record Book		
	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.		
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108	Fixed: Value related: Time related:	Item		
	C8 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			
109	F: V: T:	Item		
	C9 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.			
110	F: V: T:	Item		
	C10 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			
111	F: V: T:	Item		
	C11 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.			
112	F: V: T:	Item		
	C12 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.			
113	F: V: T:	Item		
	C13 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.			
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114	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:	ltem	
115	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:	ltem	
	C15 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]		
116	F: V: T:	Item	
	C16 STORAGE FACILITIES The Contractor shall provide a Container for storage of materials.		
117	F:	Item	
118	F: V: T:	Item	
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SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL BILL NO. 1 PRELIMINARIES COLLECTION	Page No	
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL					
	BILL NO. 2					
	HEALTH AND SAFETY					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.					
	SUPPLEMENTARY PREAMBLES					
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.					
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.					
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.					
	OCCUPATIONAL HEALTH AND SAFETY					
	<u>General</u>					
1	Preparation of Contractor's site specific Health and Safety Plan	Item				
2	Submission of the Health and Safety File	Item				
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations	Item				
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period	Item				
5	Provision of full time Health and Safety Officer for the entire construction period	Item				
6	Induction training of all personnel	Item				
7	Provision of first aid boxes	Item				
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	Bill No. 2					
	Health And Safety					
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		Unit	Quantity	Rate	Amount
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and				
	including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150		
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high	No	1		
	Provision for Personal Protective Equipment and				
10	Reflective vests.	Item			
11	Hard hats	Item			
12	Protective footwear	Item			
13	Ear plugs	Item			
14	Dust masks	Item			
	Medical certificates and medical surveillance				
15	Initial (baseline) medical examinations for all personnel	Item			
16	Exit Examinations for all personnel	Item			
	Noise Monitoring				
17	Establishment of noise zones	Item			
18	Audiograms	Item			
	Covid-19 Compliance Measures				
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements	ltom			
	monade all the mandately requirements	Item			
	Carried to Collection			R	
	Section No. 2 Bill No. 2				
	Health And Safety				
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SECTION NO. 2 BAMBOESPRUIT JUNIO BILL NO. 2 HEALTH AND SAFETY COLLECTION	R SECONDARY SCHOOL Brought Forward from Page	Page No 64 65	
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL					
	BILL NO. 3					
	RENOVATIONS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	SUPPLEMENTARY PREAMBLES					
	<u>View site</u>					
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained					
	<u>General</u>					
	Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent					
	MAKING GOOD 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)					
1	Remove VIP 200 pit pedestals, prepare suface to					
	receive new VIP 450 pit pedestal (new pedestal measured elsewhere)	No	3			
2	PVC urinal traps	No	4			
_	Making good leaking water pipe fittings by disassembling, cleanning, applying appropriate seal	. 10				
	and reassembling					
3	Leaking 25mm raiwater tank outlets	No	4			
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	Section No. 2 Bill No. 3					
	Renovations					
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		Unit	Quantity	Rate	Amount
	Making good tie down straps to existing tanks				
4	New 4mm diameter galvanised wire tank ties wrapped twice around centre of tank and secured to each corner of tank stand with a double strand of 4mm diameter galvanised wire bolted into concrete.	No	1		
	Making good falling VIP pedestal steel doors	. 10			
5	Secure overhead timber beams to walls using expansion				
	bolts, resecure and realign steel doors and make good plaster and paint	No	3		
	Making good existing security gates				
6	Repair loose hanging or fallen gates by making good brick walls and then re-installing gates into position with new 13mm diameter x 90mm long expansion applied to existing gate hinges	No	1		
	Making good existing timber doors and frames				
7	Making good good falling doors where plugs to walls have failed by repositioning existing timber door frames and secure by installing new anchors/ plugs including refitting doors to hinges and frames.	No	3		
	BATHROOM FITTINGS				
	Stainless steel bathroom fittings				
8	Free standing She Bin: manufactured from Grade 304 1,2mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity	No	9		
	SANITARY FITTINGS				
	Rust and corrosion resistant, UV-resistant polyethylene pedestals, urinals, basins, etc.				
9	VIP 450 Pit pedestal complete with integral tlap four times plugged to floor with and including 6 x 75mm masonry anchors.	No	3		
	TRAPS ETC				
	<u>Traps</u>				
10	40mm Chromium plated bottle trap	No	4		
	Carried to Collection			R	
	Section No. 2			ĸ	
	Bill No. 3				
	Renovations				
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		Unit	Quantity	Rate	Amount	
11	TAP STANDS Two 20mm brass bib-taps in tap stands formed of 110mm diameter PVC pipes encased in concrete and cast into the ground complete with connecting to existing tanks with 12m long 20mm HDPE pipes in and including trenches backfilled 700mm High tap stands complete	No	2			
	Carried to Collection			R		
	Section No. 2 Bill No. 3 Renovations 69			ĸ		

SECTION NO. 2 BAMBOESPRUIT JUNIO BILL NO. 3 RENOVATIONS COLLECTION	OR SECONDARY SCHOOL Brought Forward from Page	Page No 67	
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL					
	BILL NO. 4 GARDEN AND BALUSTRADE WALLS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	EARTHWORKS (PROVISIONAL)					
	Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:					
1	Surface trenches.	m³	33			
	Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:					
2	Soft rock.	m³	3			
3	Hard rock.	m³	1			
4	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m²	131			
5	Allow for keeping excavations entirely free from water or mud.	Item				
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density					
6	Backfilling to trenches, holes, etc.	m³	6			
7	Scarify in-situ material for a depth of 150mm and compact to obtain 98% modified AASHTO dry density.	m²	55			
	Earth filling supplied by the contractor, compacted to 98% Mod AASHTO density					
8	Under floors, steps, pavings, etc.	m³	6			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 4					
	Garden And Balustrade Walls					
	71		1			

		Unit	Quantity	Rate	Amount	
	CONCRETE, FORMWORK & REINFORCEMENT					
	25MPa Mass concrete in:	3	44			
9	Wall footings cast against excavated surfaces.	m³	11			
	Expansion Joints:					
10	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	109			
	TEST CUBES					
	<u>Test Cubes</u>					
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5			
	MASONRY					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar					
12	One brick wall.	m²	87			
13	Leave or form 115 x 75mm high weep hole through one brick wall.	No	10			
	2,5mm Galvanised brick reinforcement					
14	150mm Wide reinforcement built in horizontally	m	218			
	Facings Externally:					
	"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):					
15	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m²	87			
16	Brick on edge coping in header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	109			
	PAINTING					
	Clean down with Spirits of Salts solution and apply two coats silicone-based brick dressing on:					
17	Clinker brick facings (Externally).	m²	87			
	Carried to Collection			R		
	Section No. 2					
	Bill No. 4					
	Garden And Balustrade Walls 72					
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SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL BILL NO. 4 GARDEN AND BALUSTRADE WALLS COLLECTION Brought Forward from F	Page No Page 71 72	
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	Unit	Quantity	Rate	Amount
SECTION NO. 2				
BAMBOESPRUIT JUNIOR SECONDARY SCHOOL				
BILL NO. 5 V – DRAINS				
PREAMBLES				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
SUPPLEMENTARY PREAMBLES				
Nature of ground:				
The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock'				
Carting away of excavated material:				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
Filling:				
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material				
Testing:				
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)				
Carried to Collection			R	
Section No. 2				
Bill No. 5				
V – Drains				
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		Unit	Quantity	Rate	Amount	
	EVCAVATION FTC					
	EXCAVATION ETC Excavation in earth not exceeding 2m deep					
1	Reduced levels under pavings	m³	6			
	Extra over all excavations for carting away					
2	Surplus material from excavations and/or stock piles on					
	site, to a dumping site to be located by the contractor	m³	6			
	FILLING ETC OTHER THAN BULK					
	Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density					
3	Under floors, steps, pavings, etc.	m³	4			
	Coarse river sand filling supplied by the contractor					
4	Under pavings etc.	m³	1			
	Compaction of surfaces					
5	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize					
	material, adding suitable material where necessary and					
	compacting to 98% Mod AASHTO density	m²	27			
	Prescribed density tests on filling					
6	Modified AASHTO Density test	No	3			
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape					
7	Under surface pavings etc.	m²	27			
	<u>CULVERTS</u>					
	Culverts formed of uPVC pipes					
8	1600mm Diameter concrete pipes in culverts laid in					
	trenches not exceeding 1m deep including excavation, beddingen, backfilling, compaction and carting away	m	6			
	Carried to Collection			R		
	Section No. 2 Bill No. 5					
	V – Drains					
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		Unit	Quantity	Rate	Amount
	STORMWATER DRAINAGE (PROVISIONAL)				
	Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar:				
9	Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway.	m	38		
10	Extra for angle.	No	5		
11	Extra for fair end.	No	2		
12	Extra for dressing around culverts (culverts measured elsewhere.	No	1		
13	Extra for 1000mm long x 2700mm wide outlet with 300mm deep x 300mm wide thickened edge and thirteen number 150 x 150 x 150mm concrete block energy dissipaters set into in-situ concrete draining off to and including a 2700 x 600 x 100mm thick bed formed of 19mm diameter stones	No	2		
14	Stormwater dish drain size 900 x 600 x 900mm wide (2400 wide overall) x 300mm deep with 2400 x 150mm deep waterway.	m	1		
	TEST CUBES				
	<u>Test Cubes</u>				
15	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3		
	REINFORCEMENT (CPAP WORK GROUP NO. 114) Fabric reinforcement				
16	Type 617 fabric reinforcement in concrete dish drains etc	m²	27		
	Corried to Collection			.	
	Carried to Collection Section No. 2			R	
	Bill No. 5				
	V – Drains				
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SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL BILL NO. 5 V – DRAINS COLLECTION Brought Forward from Page	Page No 74 75	
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL					
	BILL NO. 6 CONCRETE APRONS, WALKWAYS & RAMPS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	EARTHWORKS (PROVISIONAL)					
	Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:					
1	Reduce levels under pavings.	m³	6			
	Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:					
2	Soft rock.	m³	1			
3	Hard rock.	m³	1			
4	Unreinforced concrete	m³	1			
	Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for breaking up:					
5	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m²	6			
6	Allow for keeping excavations entirely free from water or mud.	Item				
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density					
7	Scarify in-situ material for a depth of 150mm and compact to obtain 95% modified AASHTO dry density.	m²	45			
	Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density					
8	Under floors, steps, pavings, etc.	m³	7			
	Carried to Collection			.		
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	Bill No. 6					
	Concrete Aprons, Walkways & Ramps					
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		Unit	Quantity	Rate	Amount	
	CONCRETE, FORMWORK & REINFORCEMENT					
	25MPa Mass concrete in:	_				
9	Ramps	m³	2			
10	Pavings.	m³	4			
	Sundries:					
11	Strike off and cure tops of surface beds laid in panels approximately 1000mm long x 1000mm wide to uniform levels including all necessary formwork to form toggle joints to temporary construction joints to falls.	m²	45			
12	Extra for floating off smooth tops of surface beds laid in panels ta brush finish including slightly rounded edges to panels.	m²	45			
	Expansion Joints:					
13	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	30			
	TEST CUBES					
	<u>Test Cubes</u>					
14	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	5			
	SMOOTH FORMWORK (DEGREE OF ACCURACY II) (CPAP WORK GROUP NO. 111)					
	Smooth formwork to sides					
15	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	12			
	REINFORCEMENT (CPAP WORK GROUP NO. 114)					
	Fabric reinforcement					
16	Type 617 fabric reinforcement in concrete surface beds etc	m²	45			
	DAMPPROOFING OF WALLS AND FLOORS					
	One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape					
17	Under surface pavings etc.	m²	45			
	Carried to Collection			R		
	Section No. 2					_
	Bill No. 6					
	Concrete Aprons, Walkways & Ramps 79					
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SECTION NO. 2 BAMBOESPRUIT JUNIOR SECONDARY SCHOOL BILL NO. 6 CONCRETE APRONS, WALKWAYS & RAMPS COLLECTION Brought Forward from Page	Page No 78 79	
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Bill No. 6 Concrete Aprons, Walkways & Ramps 80		

		Unit	Quantity	Rate	Amount	
	SECTION NO. 2					
	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL					
	BILL NO. 7					
	SUBSOIL DRAINAGE					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	SUPPLEMENTARY PREAMBLES					
	Laying, backfilling, bedding, etc. of pipes					
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled					
	As-built drawings:					
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)					
	SUBSOIL DRAINAGE (CPAP WORK GROUP NO. 146)					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m²	108			
	Subsoil drainage					
2	Excavation in earth not exceeding 2m deep for pipe trenches	m³	73			
3	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	6			
4	Risk of collapse to sides of trench and hole excavation exceeding 1.5m but not exceeding 3.0m deep	m²	324			
5	Keeping excavations free of water	Item				
	Carried to Collection			R		
	Section No. 2			ĸ		
	Bill No. 7					
	Subsoil Drainage					
	81					

		Unit	Quantity	Rate	Amount
6	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m³	55		
7	19mm Crushed stone encasing to pipes	m³	18		
	Slotted uPVC flexible drainage pipes				
8	160mm Pipes laid in stone encasing (encasing elsewhere)	m	180		
	Extra over slotted uPVC flexible drainage pipes for fittings				
9	110mm Bend	No	5		
10	110mm Junction	No	2		
	Geotextle filter fabric blanket with stiched 300mm				
	laps				
11	Around stone filling in sub-soil drain trenches	m²	162		
	THE FOLLOWING IN STORMWATER SOAKAWAYS				
	Site clearance				
12	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m²	9		
	Subsoil drainage				
13	Excavation in earth not exceeding 2m deep for pipe trenches and holes	m³	8		
14	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	2		
15	Backfilling to trenches and holes with selected material compacted to 95% Mod AASHTO density	m³	5		
16	Risk of collapse to sides of trench and hole excavation not exceeding 1.5m deep	m²	5		
17	Risk of collapse to sides of trench and hole excavation exceeding 1.5m but not exceeding 3.0m deep	m²	29		
18	Keeping excavations free of water	Item			
19	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m³	6		
20	19mm Crushed stone beds	m³	2		
	Carried to Collection Section No. 2			R	
	Bill No. 7				
	Subsoil Drainage				
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		Unit	Quantity	Rate	Amount	
21	63mm Stone beds Geotextle filter fabric blanket with stiched 300mm	m³	7			
22	laps Around stone filling in sub-soil drain trenches	m²	7			
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	Subsoil Drainage 83					

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		Unit	Quantity	Rate	Amount
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	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL				
	BILL NO. 8				
	GRADE R FENCING				
	PREAMBLES				
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
	THE FOLLOWING IN SECURITY FENCING				
	Site clearance				
1	Allow for clearing site for a width of 1m where fencing runs are to be erected including removing trees, shrubs, etc not exceeding 200mm girth, grubbing up roots and roughly levelling	m	70		
	Straining wires, fencing and razor wire				
2	Four strands of 4mm Class'A' galvanised straining wires secured to fencing posts with doubled 2 mm galvanised wire inserted through hole in post and turned a minimum of four turns around straining wire and attached to straining frame at one end with not less than four turns at the other end to straining bolts (elsewhere measured).	m	70		
3	Fencing formed of 50 x 50 x 2.0mm diameter galvanised fencing 1 800mm high and fixed to each straining wire with 8 guage binding wire at 500mm centres including staking to ground with and including Y10 pegs at 900mm c/c between posts (straining wires elsewhere measured).	m	70		
	Posts				
4	75mm Diameter galvanised steel intermediate fencing post, 2700mm fitted with a pressed steel mushroom cap, post fitted with 150 x 150 x 5mm base plate at bottom and set into the ground.	No	9		
5	150mm Ditto as standard post but embedded in 600 x				
	600 x 700mm high mass concrete (15MPa) base	No	3		
	Carried to Collection			R	
	Section No. 2				
	Bill No. 8 Grade R Fencing				
	85				
			'		

		Unit	Quantity	Rate	Amount	
6	150mm Ditto as straining or corner posts, but fitted with two 75mm diameter galvanised steel raking stays and with top ends flattened and bolted through post with post embedded in 600 x 600 x 700mm high mass concrete					
	(15MPa) base and stays embedded in 700 x 700 x 450mm high mass concrete (15MPa) base	No	5			
7	150mm Ditto as end/ gate post, but fitted with one 75mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post embedded in 600 x 600 x 700mm mass concrete (15MPa) base and stay embedded in 700 x 700 x 450mm high mass concrete (15MPa) base with all base tops set raking (sloping)	No	6			
	Gates					
8	Security fence single gate, size 900 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, with 20mm diameter x 300mm long locking bolt welded on and a pair of heavy duty gate hooks for a 16mm band hinge pin welded on to gate and including a pair of 16mm band hinge pins bolted to gate posts	No	1			
9	Security fence single gate, size 1500 mm wide x 1800 mm high, formed of 50 mm diameter nominal bore x 2,2 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and middle rail, hung on pair of socketted and pinned hinges with pin 18mm in diameter and bolted to brick wall and with 20mm diameter x 300mm long locking bolt welded on.	No	1			
10	Double gate, size 6 000 mm wide x 1 800 mm high overall in two leaves, formed of 50 mm diameter nominal bore x 2.5 mm wall thickness hot dip galvanised mild steel pipe framing all round with 25 mm diameter nominal bore x 2.0 mm wall thickness diagonal and centre braces, scribed and welded into angles and at cross intersections, gate filled with 50 x 50 x 2,0mm galvanised wire diamond mesh, with two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, each leaf fitted with two 25 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to gate	No	1			
	Carried to Collection Section No. 2			R		
	Section No. 2 Bill No. 8					
	Grade R Fencing					
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		Unit	Quantity	Rate	Amount	
11	Locks 50mm "Viro" or other equally approved padlocks for external use.	No	3			
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SECTION NO. 2 BAMBOESPRUIT JUNIOF BILL NO. 8 GRADE R FENCING COLLECTION	R SECONDARY SCHOOL Brought Forward from Page	Page No 85 86 87	
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	SECTION NO. 2			
	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL			
	BILL NO. 9			
	PROVISIONAL SUMS			
	PROVISIONAL SUMS			
	Supplementary Preambles			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related therto.			
	BUDGETARY ALLOWANCES			
	Sundry building work			
1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)	Item	22 500	00
2	Profit	Item		
3	Attendance	Item		
4	Provide the sum of R105 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period	Item	105 000	00
5	Profit	Item		
6	Attendance	Item		
7	Provide the sum of R120 000. 00 for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out			
		Item	120 000	00
8	Profit	Item		
9	Attendance	Item		
	Contingencies			
10	Allow the Amount of R30 000.00 (Thirty Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.	Item	30 000	00
		_		
	Carried To Section Summary Section No. 2	R		
	Bill No. 9			
	Provisional Sums			
	89			

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	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL		
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2	HEALTH AND SAFETY	66	
3	RENOVATIONS	70	
4	GARDEN AND BALUSTRADE WALLS	73	
5	V – DRAINS	77	
6	CONCRETE APRONS, WALKWAYS & RAMPS	80	
7	SUBSOIL DRAINAGE	84	
8	GRADE R FENCING	88	
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SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL

SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 1 PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

- 1. The Principal Building Agreement shall be the JBCC Series Edition 4.1, March 2005 as recommended by the Joint Building Contracts 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. The tenderor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause. The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only.
- 4. Where standard clauses or alternatives are not entirely applicable to this contract, such modifications, corrections or additions as are necessary, are given as far as possible under each relevant clause heading. Additional Preliminary clauses are contained in Section C hereof.
- 5. No claim whatsoever shall be entertained in respect of errors or omissions in pricing due to brevity of descriptions of items which are fully described when read in conjunction with the relevant clauses of the said Principal Building Agreement, Preliminaries and Preambles.
- 6. The Tenderers shall allow opposite each of the clauses whatever costs and charges he may consider necessary forthe carrying out, complying with and due observance of the provisions, conditions and requirements set out herein. Only priced items will be considered in respect of any adjustment of this Section. Any items left unpriced will be understood to be provided free of charge and no claim for any extras arising out of the Tenderer's omission to price any item will be entertained.
- 7. Where modifications or amendments as described are made, such modifications and/or amendments shall supercede any conflicting provisions in the relevant clauses of the Standard Preliminaries or the Principal Building Agreement and the Tenderer shall make due allowance for whatever costs and charges he may consider necessary for the carrying out and observance of the provisions of the clauses as modified and/or amended.
- 8. Where any item is not relevant to this specific contract, such item is marked N/A.
- 9. If Alternative A as set out in clause B10.3 hereinafter is to be used for the adjustment of the preliminaries, each item priced is to be allocated to one or more of the three categories by insertion of "F","V","T" as the case may be against the price in the "rate" column immediately preceding the "amount" column, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value, and "T" denotes an amount proportionate to time.

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Section No. 3 Bill No. 1 Preliminaries

	SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT		
	DEFINITIONS		
	A1 DEFINITIONS AND INTERPRETATION		
	Clause 1.0:		
1	Fixed: Value related: Time related:0	Item	
	OBJECTIVE AND PREPARATION		
	A2 OFFER, ACCEPTANCE AND PERFORMANCE		
	Clause 2.0		
2	Fixed: Value related: Time related:	Item	
	A3 DOCUMENTS		
	Clause 3.0		
	Clause 3.1 is deleted and substituted with: 'This tender is for a Government Contract. No Payment Guarantee will be provided.'		
	Clause 3.3 is deleted and substituted with:		
	The principal agent shall complete the schedule and arrange for formal signing of the agreement once the priced bill of quantities/lump sum document, security, insurances and waiver of lien, where acceptable, have been provided and effected'		
3	Fixed: Value related: Time related:	Item	
	A4 DESIGN RESPONSIBILITY		
	Clause 4.0		
4	Fixed: Value related: Time related:	Item	
	A5 EMPLOYERS AGENTS		
	Clause 5.0		
5	Fixed: Value related: Time related:	Item	
	A6 SITE REPRESENTATIVE		
	Clause 6.0		
6	Fixed: Value related: Time related:	Item	
	A7 COMPLIANCE WITH REGULATIONS		
7	Fixed: Value related: Time related:	Item	
	Clause 7.0		
8	Fixed: Value related: Time related:	Item	
	A8 WORKS RISK		
	Clause 8.0		
9	Fixed: Value related: Time related:	Item	
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	A9 INDEMNITIES		
	Clause 9.0		
	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'.		
10	Fixed: Value related: Time related:	Item	
	A10 WORKS INSURANCES		
	Clause 10.0		
11	Fixed: Value related: Time related:	Item	
	A11 LIABILITY INSURANCES		
	Clause 11.0		
12	Fixed: Value related: Time related:	Item	
	A12 EFFECTING INSURANCES		
	Clause 12.0		
13	Fixed: Value related: Time related:	Item	
	A13. No clause		
14	Fixed: Value related: Time related:	Item	
	A14 SECURITY		
	<u>Clause 14.0</u>		
15	Fixed: Value related: Time related:	Item	
	EXECUTION		
	A15 PREPERATION FOR AND EXECUTION OF THE WORKS		
	<u>Clause 15.0</u>		
16	Fixed: Value related: Time related:	Item	
	A16 ACCESS TO THE WORKS		
	<u>Clause 16.0</u>		
17	Fixed: Value related: Time related:	Item	
	A17 CONTRACT INSTRUCTIONS		
	<u>Clause 17.0</u>		
18	Fixed: Value related: Time related:	Item	
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	A18 SETTING OUT OF THE WORKS		
	<u>Clause 18.0</u>		
	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		
19	Fixed: Value related: Time related:	Item	
	A19 ASSIGNMENT		
	Clause 19.0		
20	Fixed: Value related: Time related:	Item	
	A20 NOMINATED SUB-CONTRACTORS		
	Clause 20.0		
21	Fixed: Value related: Time related:	Item	
	A21 SELECTED SUBCONTRACTORS		
	Clause 21.0		
22	Fixed: Value related: Time related:	Item	
	A22 EMPLOYER'S DIRECT CONTRACTORS		
	Clause 22.0		
23	Fixed: Value related: Time related:	Item	
	A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS		
	<u>Clause 23.0</u>		
24	Fixed: Value related: Time related:	Item	
	COMPLETION		
	A24 PRACTICAL COMPLETION		
	<u>Clause 24.0</u>		
25	Fixed: Value related: Time related:	Item	
	A25 WORK'S COMPLETION		
	<u>Clause 25.0</u>		
26	Fixed: Value related: Time related:	Item	
	A26 FINAL COMPLETION		
	<u>Clause 26.0</u>		
27	Fixed: Value related: Time related:	Item	
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	A27 LATENT DEFECTS LIABILITY PERIOD			
	<u>Clause 27.0</u>			
	Clause 27.0 is amended by the addition of the following clauses:			
	"27.3 Any water leakage into the building, whether in the roof, external wall or other element of the building susceptible to water leakage shall, unless proven to be a design defect, or as a result of obvious storm damage, be classified as a latent defect in terms of clause 1.0 Definitions and Interpretations".			
	"27.4 The Contractor shall attend to defects during the Defects Liability Period on a progressive basis, to the satisfaction of the Principal Agent and will not be permitted to wait until the end of the Defect Liability Period or until the amount of defects accummulates in order to attend to a comprehensive list of defects"			
28	Fixed: Value related: Time related:	Item		
	A28 SECTIONAL COMPLETION			
	<u>Clause 28.0</u>			
29	Fixed: Value related: Time related:	Item		
	A29 REVISION OF DATE FOR PRACTICAL COMPLETION			
	<u>Clause 29.0</u>			
30	Fixed: Value related: Time related:	Item		
	A30 PENALTY FOR NON-COMPLETION			
	<u>Clause 30.0</u>			
31	Fixed: Value related: Time related:	Item		
	PAYMENT			
	A31 INTERIM PAYMENT TO THE CONTRACTOR			
	<u>Clause 31.0</u>			
	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.			
32	Fixed: Value related: Time related:	Item		
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	Carried to Collection Section No. 3	R		
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A22 AD HISTMENT TO THE CONTRACT VALUE		
A32 ADJUSTMENT TO THE CONTRACT VALUE Clause 32.0		
3 Fixed: Value related: Time related:	Item	
A33 RECOVERY OF EXPENSE AND LOSS		
Clause 33.0		
4 Fixed: Value related: Time related:	Item	
A34 FINAL ACCOUNT AND FINAL PAYMENT		
Clause 34.0		
Fixed: Value related: Time related:	Item	
A35 PAYMENT TO OTHER PARTIES		
<u>Clause 35.0</u>		
Fixed: Value related: Time related:	Item	
CANCELLATION		
A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT		
<u>Clause 36.0</u>		
Fixed: Value related: Time related:	Item	
A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE		
<u>Clause 37.0</u>		
Fixed: Value related: Time related:	Item	
A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT		
<u>Clause 38.0</u>		
Fixed: Value related: Time related:	Item	
A39 CANCELLATION - CESSATION OF THE WORKS		
<u>Clause 39.0</u>		
Fixed: Value related: Time related:	Item	
DISPUTE		
A40 DISPUTE SETTLEMENT		
Clause 40.0		
Fixed: Value related: Time related:	Item	
SUBSTITUTE PROVISIONS		
A41 STATE CLAUSES		
Clause 41.0	lt a ma	
Fixed: Value related: Time related:	Item	
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	CONTRACT VARIABLES			
	THE SCHEDULE (C1.2 CONTRACT DATA)			
	A42 PRE-TENDER INFORMATION			
	Clause 42.0			
	Tenderers are referred to the document C1.2 Contract Data for variables pertaining to this contract.			
43	Fixed: Value related: Time related:	Item		
	SECTION B: JBCC PRELIMINARIES			
	B1.0 DEFINITIONS AND INTERPRETATION			
	B1.1 Definitions and interpretation			
44	Fixed: Value related: Time related:	Item		
	B2.0 DOCUMENTS			
	B2.1 Checking of documents			
	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.			
45	Fixed: Value related: Time related:	Item		
	B2.2 Provisional bills of quantities			
	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.			
46	Fixed: Value related: Time related:	Item		
	B2.3 Availability of construction documentation			
47	Fixed: Value related: Time related:	Item		
	B2.4 Interests of agents			
48	Fixed: Value related: Time related:	Item		
	B2.5 Priced documents			
49	Fixed: Value related: Time related:	Item		
	B2.6 Tender submission			
	Notwithstanding anything contained in this clause, Tenders shall be valid for a period of 20 (Twenty) weeks from the closing date of tenders.			
50	Fixed: Value related: Time related:	Item		
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	B3.0 THE SITE		
	B3.1 Defined works area		
	The area of the works to be occupied by the contractor, any restriction area and the limit of access or exit will be pointed out to the contractor principal agent on handing over of the site.		
	Workmen employed on the site are to be restricted to the immediate at the site and access thereto.	area of	
	The Tenderer shall make all necessary provision in all rates to take in account these requirements as no claims for extras arising from these matters will be subsequently entertained or admitted.		
51	Fixed: Value related: Time related:	Item	
	B3.2 Geotechnical investigation		
52	Fixed: Value related: Time related:	Item	
	B3.3 Inspection of the site		
53	Fixed: Value related: Time related:	Item	
	B3.4 Existing premises occupied		
54	Fixed: Value related: Time related:	Item	
	B3.5 Previous work - dimensional accuracy		
55	Fixed: Value related: Time related:	Item	
		non	
	B3.6 Previous work - defects		
56	Fixed: Value related: Time related:	Item	
	B3.7 Services - known		
57	Fixed: Value related: Time related:	Item	
	B3.8 Services - unknown		
58	Fixed: Value related: Time related:	Item	
	B3.9 Protection of trees		
59	Fixed: Value related: Time related:	Item	
	B3.10 Articles of value		
60	Fixed: Value related: Time related:	Item	
	B3.11 Inspection of adjoining properties		
61	Fixed: Value related: Time related:	Item	
	B4.0 MANAGEMENT OF CONTRACT		
	B4.1 Management of the works		
62	Fixed: Value related: Time related:	Item	
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	B4.2 Programme for the works		
63	Fixed: Value related: Time related:	Item	
	B4.3 Progress meetings		
64	Fixed: Value related: Time related:	Item	
	B4.4 Technical meetings		
65	Fixed: Value related: Time related:	Item	
	B4.5 Labour and plant records		
66	Fixed: Value related: Time related:	Item	
	B5.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURERS'		
	INSTRUCTIONS		
	B5.1 Samples of materials		
67	Fixed: Value related: Time related:	Item	
	B5.2 Workmanship samples		
68	Fixed: Value related: Time related:	Item	
	B5.3 Shop drawings		
69	Fixed: Value related: Time related:	Item	
	B5.4 Compliance with manufacturers instructions		
70	Fixed: Value related: Time related:	Item	
	B6.0 TEMPORARY WORKS AND PLANT		
	B6.1 Deposits and fees		
71	Fixed: Value related: Time related:	Item	
	B6.2 Enclosure of the works		
	The contractor shall erect, maintain and remove at completion, hoardings, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof all for the protection of the public and others.		
72	Fixed: Value related: Time related:	Item	
	B6.3 Advertising		
73	Fixed: Value related: Time related:	Item	
	B6.4 Plant, equipment, sheds and offices		
74	Fixed: Value related: Time related:	Item	
	B6.5 Main notice board		
75	Fixed: Value related: Time related:	Item	
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B6.6 Subcontractors\rquote notice board	
76 Fixed: Value related: Time related:	Item
B7.0 TEMPORARY SERVICES	
B7.1 Location	
77 Fixed: Value related: Time related:	Item
B7.2 Water	
The contractor shall provide water for the works in accordance with:	
Alternative A (i.e. to be provided for by the Contractor).	
78 Fixed: Value related: Time related:	ltem
B7.3 Electricity	
The contractor shall provide electricity for the works in accordance with:	
Alternative A (i.e. to be provided for by the Contractor).	
79 Fixed: Value related: Time related:	Item
B7.4 Telecommunication facilities	
The contractor shall provide telephones on site for the works in accordance with:	ce
Alternative A (i.e. to be provided for by the Contractor).	
30 Fixed: Value related: Time related:	Item
B7.5 Ablution facilities	
The contractor shall provide toilet facilities on site for the works in accordance with:	
Alternative A (i.e. to be provided for by the Contractor).	
81 Fixed: Value related: Time related:	Item
B8.0 PRIME COST AMOUNTS	
B8.1 Responsibility for prime cost amounts	
32 Fixed: Value related: Time related:	ltem
9.0 ATTENDANCE ON N/S SUBCONTRACTORS	
B9.1 General attendance	
33 Fixed: Value related: Time related:	ltem
B9.2 Special attendance	
84 Fixed: Value related: Time related:	Item
B9.3 Commissioning - fuel, water and electricity	
85 Fixed: Value related: Time related:	Item
7 Tixed Value related Time related	Item
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	D40.0 FINANCIAL ACRECTS		
	B10.0 FINANCIAL ASPECTS B10.1 Statutory taxes, duties and levies		
86	Fixed: Value related: Time related:	Item	
	B10.2 Payment for preliminaries		
87	Fixed: Value related: Time related:	Item	
•	B10.3 Adjustment of preliminaries		
88	Fixed: Value related: Time related:	Item	
		no	
89	B10.4 Payment certificate cash flow Fixed: Value related: Time related:	Item	
03		item	
	B11. GENERAL B11.1 Protection of the works		
90	Fixed: Value related: Time related:	Item	
		Rom	
91	B11.2 Protection / isolation of existing / sectionally occupied works Fixed: Value related: Time related:	Item	
91		item	
02	B11.3 Security of the works Fixed: Value related: Time related:	Itom	
92		Item	
02	B11.4 Notice before covering work Fixed: Value related: Time related:	Itom	
93		Item	
	11.5 Disturbance		
94	Fixed: Value related: Time related:	Item	
	B11.6 Environmental disturbance		
95	Fixed: Value related: Time related:	Item	
	B11.7 Works cleaning and clearing		
96	Fixed: Value related: Time related:	Item	
	B11.8 Vermin		
97	Fixed: Value related: Time related:	Item	
	B11.9 Overhand work		
98	Fixed: Value related: Time related:	Item	
	B11.10 Instruction manuals and guarantees		
99	Fixed: Value related: Time related:	Item	
	B11.11 As built information		
00	Fixed: Value related: Time related:	Item	
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	B11.12 Tenant installations			
101	Fixed: Value related: Time related:	Item		
	SECTION C: SPECIFIC PRELIMINARIES			
	Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item.			
	C1 CONTRACT DRAWINGS			
	The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the works and the manner in which they are to be executed. Should any part of the drawings not be clearly intelligible to the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent.			
102	Fixed: Value related: Time related:	Item		
	C2 GENERAL PREAMBLES			
	The document "Specification of Materials and Methods to be used (PW371)" is obtainable on request from the head office and all regional offices of the Departtment, and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used.			
103	Fixed: Value related: Time related:	Item		
	C3 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.			
	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.			
104	Fixed: Value related: Time related:	Item		
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	C4 CONTRACTOR'S 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			
105	Fixed: Value related: Time related:	Item		
	C5 OVERTIME			
	Should overtime be required to be worked for any reason whatsoever, the costs of such overtime are to be borne by the contractor unless the principal agent has specifically authorised in writing, prior to the execution thereof, that costs for such overtime are to be borne by the employer.			
106	Fixed: Value related: Time related:	Item		
	C6 AS BUILT DRAWINGS			
	The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer's drawings and are to be submitted to the principal agent and the structural engineer for their records.			
	Three full sets of as-built drawings shall be submitted to the Principal Agent no later than fourteen days after practical completion			
107	Fixed: Value related: Time related:	Item		
	C7 CONTRACT INSTRUCTIONS			
	Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the Contractor. The Contractor shall supply and have available at the site of the works at all times, the following site books:			
	a) Contract Instruction Book			
	Receiving and recording instructions in a suitable A4 size triplicate book kept on site. Instructions issued shall be recorded by the Architect or other Employer's Agents to whom the Architect has delegated authority to in the book.			
	Only instructions issued in such book shall be recognised.			
	b) Daily Record Book			
	The Contractor shall record in triplicate in a suitable A4 size triplicate book kept at the site, a daily record of work done, all site visits by the Principal Agent and other professional personnel and all events affecting the Works, such as progress, issue of plans, breakdown of machinery, etc. The labour, plant and material on site shall be recorded as well as work performed. Entries must be made by the Contractor and must be signed and forwarded to the Principal Agent for his counter-signature on a daily basis. Copies of these records shall be for the Architect, Quantity Surveyor and Contractor.			
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108	Fixed: Value related: Time related:	Item	
	C8 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		
109	F: V: T:	Item	
	C9 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.		
110	F: V: T:	Item	
	C10 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		
111	F: V: T:	Item	
	C11 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.		
112	F: V: T:	Item	
	C12 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.		
113	F: V: T:	Item	
	C13 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.		
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114	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:	ltem	
445	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:	1 1	
115	C15 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]	Item	
116	F: V:	Item	
117	F:	Item	
118	F: V: T:	Item	
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	KHIBA JUNIOR SECONDARY SCHOOL					
	BILL NO. 2					
	HEALTH AND SAFETY					
	MODEL PREAMBLES					
	The tenderer is referred to the "Model Preambles for Trades 2008" for supplementary and comprehensive expansion of descriptions, appropriate provision for which shall be deemed to have been included in all relevant rates.					
	SUPPLEMENTARY PREAMBLES					
	Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the General Preambles.					
	The contractor's prices for all items throughout these bills of quantities shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications.					
	Prior to pricing the principal contractor must familiarize him/herself with the Occupational Health and Safety Act No. 85 Of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety specifications.					
	OCCUPATIONAL HEALTH AND SAFETY					
	General					
1	Preparation of Contractor's site specific Health and Safety Plan	Item				
2	Submission of the Health and Safety File	Item				
3	Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations	Item				
4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period	Item				
5	Provision of full time Health and Safety Officer for the entire construction period	Item				
6	Induction training of all personnel	Item				
7	Provision of first aid boxes	Item				
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	Health And Safety					
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TMT-DBE-23/24-SAFEOS-ECCL49 THE MVULA TRUST SAFE PROGRAMME – OMITTED SCOPE

		Unit	Quantity	Rate	Amount
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and				
	including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	150		
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high	No	1		
	Provision for Personal Protective Equipment and				
10	Reflective vests.	Item			
11	Hard hats	Item			
12	Protective footwear	Item			
13	Ear plugs	Item			
14	Dust masks	Item			
	Medical certificates and medical surveillance				
15	Initial (baseline) medical examinations for all personnel	Item			
16	Exit Examinations for all personnel	Item			
	Noise Monitoring				
17	Establishment of noise zones	Item			
18	Audiograms	Item			
	Covid-19 Compliance Measures				
19	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements	Item			
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	KHIBA JUNIOR SECONDARY SCHOOL					
	BILL NO. 3					
	RENOVATIONS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	SUPPLEMENTARY PREAMBLES					
	<u>View site</u>					
	Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained					
	<u>General</u>					
	Water supply pipes and other piping in ground that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings to the satisfaction of the principal agent					
	MAKING GOOD OF EXISTING WORK					
	Making good VIP pedestals					
1	Secure loosely fitted pit pedestals by bolting down securely or applying an cement/ epoxy based industrial adhesive	No	9			
	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	Damaged 110mm vent pipes	m	4			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 3					
	Renovations 111					
	111				II	

TMT-DBE-23/24-SAFEOS-ECCL49 THE MVULA TRUST SAFE PROGRAMME – OMITTED SCOPE

		Unit	Quantity	Rate	Amount
	Making good leaking water pipe fittings by disassembling, cleanning, applying appropriate seal and reassembling				
3	Leaking 25mm raiwater tank outlets	No	1		
	BATHROOM FITTINGS				
	Stainless steel bathroom fittings				
4	Free standing She Bin: manufactured from Grade 304 1,2mm Stainless Steel, satin finished with surface treatment. The container to have an approximately 20 litre capacity	No	7		
	SANITARY PLUMBING				
	PVC-U soil and vent pipes				
5	110mm Pipes	m	4		
	Extra over PVC-U soil and vent pipes for fittings				
6	Install new brackets/ holder bats anchored to brick walls around existing 110mm diameter vent pipes	No	12		
7	110mm Air vent whirlybird	No	1		
	Carried to Collection Section No. 3			R	
	Bill No. 3				
	Renovations 112				

SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 3 RENOVATIONS COLLECTION	Brought Forward from Page	Page No 111 112	
Carried To Section No. 3 Bill No. 3 Renovations	ion Summary 113	R	

		Unit	Quantity	Rate	Amount	
	OFOTION NO. 0					
	SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL					
	BILL NO. 4					
	GARDEN AND BALUSTRADE WALLS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the					
	separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	EARTHWORKS (PROVISIONAL)					
	Excavate in pickable material not exceeding 2m deep below natural or reduced ground level:					
1	Surface trenches.	m³	24			
	Extra over excavation in pickable material for column bases, trenches, lift pits, sumps, etc for excavation:					
2	Soft rock.	m³	3			
3	Hard rock.	m³	1			
4	Allow for risk of collapse to sides of excavations to column bases, trenches, etc. from ground level to not exceeding 1,5m deep.	m²	96			
5	Allow for keeping excavations entirely free from water or mud.	Item				
	Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 98% Mod AASHTO density					
6	Backfilling to trenches, holes, etc.	m³	4			
7	Scarify in-situ material for a depth of 150mm and compact to obtain 98% modified AASHTO dry density.	m²	40			
	Earth filling supplied by the contractor, compacted to 98% Mod AASHTO density					
8	Under floors, steps, pavings, etc.	m³	4			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 4					
	Garden And Balustrade Walls					
	114					

		Unit	Quantity	Rate	Amount	
	CONCRETE, FORMWORK & REINFORCEMENT					
	25MPa Mass concrete in:	•				
9	Wall footings cast against excavated surfaces.	m³	8			
	Expansion Joints:					
10	12mm "Flexcell" or other approved cane fibre filler board in expansion joint between edge of concrete paving and walls in narrow widths not exceeding 150mm wide including tacking to face of wall.	m	80			
	TEST CUBES					
	Test Cubes					
11	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3			
	MASONRY					
	Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar					
12	One brick wall.	m²	72			
13	Leave or form 115 x 75mm high weep hole through one brick wall.	No	8			
	2,5mm Galvanised brick reinforcement					
14	150mm Wide reinforcement built in horizontally	m	240			
	Facings Externally:					
	"Rustgold FBS/Qunu Travertine" clay face brick or equal approved, size 222 x 106 x 73mm, bedded and jointed in Class II mortar and pointed with recessed vertical and recessed horizontal joints, suitable for exposure zones 1-2 (Cement to be 42.5N all-purpose cement):					
15	Extra over ordinary brickwork for facing in stretcher bond and pointing as described.	m²	64			
16	Brick on edge coping in header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	80			
		m	00			
	PAINTING Clean down with Spirits of Salts solution and apply two coats silicone-based brick dressing on:					
17	Clinker brick facings (Externally).	m²	64			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 4					
	Garden And Balustrade Walls					
	115				.1	

SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 4 GARDEN AND BALUSTRADE WALLS COLLECTION	Brought Forward from Page	Page No 114 115	
Carried To Sect Section No. 3 Bill No. 4 Garden And Balustrade Walls	ion Summary	R	

	Unit	Quantity	Rate	Amount
SECTION NO. 3				
KHIBA JUNIOR SECONDARY SCHOOL				
BILL NO. 5 V – DRAINS				
<u>v – bivalito</u>				
PREAMBLES				
The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities				
SUPPLEMENTARY PREAMBLES				
Nature of ground:				
The nature of the ground is assumed to be loose sandy material, therefore 'earth', but possibly interspersed with 'soft rock' or 'hard rock'				
Carting away of excavated material:				
Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site				
Filling:				
Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material				
Testing:				
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D				
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 principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the principal agent. (Test cubes are measured separately)				
Carried to Collection			R	
Section No. 3				
Bill No. 5				
V – Drains				
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EXCAVATION ETC Excavation in earth not exceeding 2m deep 1 Reduced levels under pavings Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor FILLING ETC CTHER THAN BULK Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density Junder floors, steps, pavings, etc. Coarse river sand filling supplied by the contractor Under pavings etc. Compaction of ground surface under floors etc. including scartiying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Trescribed density tests on filling Modified AASHTO Density test DAMPPROFING OF WALLS AND FLOORS One laver 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape Under surface pavings etc. **STORMWATER DRAINAGE (PROVISIONAL)** Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3-1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laving to falls, bedding and pointing in (3-1) cement mortar: Channels size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. Faxtra for angle. No 3 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V - Drains			Unit	Quantity	Rate	Amount	
Excavation in earth not exceeding 2m deep Reduced levels under pavings							
Excavation in earth not exceeding 2m deep Reduced levels under pavings							
Reduced levels under pavings Extra over all excavations for carting away Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor FILLING ETC OTHER THAN BULK Earth filling (G7 material) supplied by the contractor. compacted to 95% Mod AASHTO density Under floors, steps, pavings, etc. Coarse river sand filling supplied by the contractor Under pavings etc. Compaction of surfaces Compaction of surfaces Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS) 952-1985 type C) sealed at laps with PVC self-adnessive tape Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth and with angles rounded, cast in maximum 3000mm lenaths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep V-channel waterway. Extra for angle. Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V - Drains							
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Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor FILLING ETC OTHER THAN BULK Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density Under floors, steps, pavings, etc. Coarse river sand filling supplied by the contractor Under pavings etc. Compaction of surfaces Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1935 type C) sealed at laps with PVC self-adhesive tabe 7 Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top. finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 300mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement moriar: Channel size 700 x 250mm overall with 700 x 150mm deep v-channel waterway. Extra for angle. Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains	1		IIIa	9			
site, to a dumping site to be located by the contractor FILING ETC OTHER THAN BULK Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density 3 Under floors, steps, pavings, etc. Coarse river sand filling supplied by the contractor Under pavings etc. Compaction of surfaces Compaction of surfaces Compaction of surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One laver 250 micron green polyethylene waterproof sheeting (SAM) 592-1985 type C) sealed at laps with PVC self-adhesive tape Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) unitned cement plaster trowelled smooth and with angles rounded, cast in maximum 300mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. Extra for angle. Carried to Collection Section No. 3 Bill No. 5 V – Drains							
Earth filling (G7 material) supplied by the contractor, compacted to 95% Mod AASHTO density 3 Under floors, steps, pavings, etc. Coarse river sand filling supplied by the contractor Under pavings etc. Compaction of surfaces 5 Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 300mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep V-channel waterway. Extra for angle. Carried to Collection Section No. 3 Bill No. 5 V – Drains	2		m³	9			
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Compaction of surfaces Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. Extra for angle. No 3 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains		Coarse river sand filling supplied by the contractor					
Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. Extra for angle. No Carried to Collection Section No. 3 Bill No. 5 V – Drains	4	Under pavings etc.	m³	2			
scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density Prescribed density tests on filling Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. Extra for angle. No 3 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains		Compaction of surfaces					
Modified AASHTO Density test DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape 7 Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: 8 Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. 9 Extra for angle. No 3 10 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains	5	scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and	m²	37			
DAMPPROOFING OF WALLS AND FLOORS One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape 7 Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: 8 Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. 9 Extra for angle. No 3 10 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains		Prescribed density tests on filling					
One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape 7 Under surface pavings etc. m² 37 STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: 8 Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. m 53 9 Extra for angle. No 3 10 Extra for fair end. No 1	6	Modified AASHTO Density test	No	3			
sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape 7 Under surface pavings etc. STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: 8 Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. 9 Extra for angle. No 3 10 Extra for fair end. No 1		DAMPPROOFING OF WALLS AND FLOORS					
STORMWATER DRAINAGE (PROVISIONAL) Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. m 53 Extra for angle. No 3 Extra for fair end. No 1 Carried to Collection Section No. 3 Bill No. 5 V – Drains		sheeting (SANS 952-1985 type C) sealed at laps with					
Precast or in-situ concrete (25 MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: 8 Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. 9 Extra for angle. No 3 10 Extra for fair end. No 1 Carried to Collection Section No. 3 Bill No. 5 V – Drains	7	Under surface pavings etc.	m²	37			
stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding and pointing in (3:1) cement mortar: 8 Channel size 700 x 230mm overall with 700 x 150mm deep v-channel waterway. 9 Extra for angle. No 3 10 Extra for fair end. No 1 Carried to Collection Section No. 3 Bill No. 5 V – Drains		STORMWATER DRAINAGE (PROVISIONAL)					
deep v-channel waterway. 9 Extra for angle. No 3 10 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains		stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in (3:1) untinted cement plaster trowelled smooth and with angles rounded, cast in maximum 3000mm lengths, and reinforced as necessary for handling if precast, including laying to falls, bedding					
10 Extra for fair end. Carried to Collection Section No. 3 Bill No. 5 V – Drains	8		m	53			
Carried to Collection Section No. 3 Bill No. 5 V – Drains	9	Extra for angle.	No	3			
Section No. 3 Bill No. 5 V – Drains	10	Extra for fair end.	No	1			
Section No. 3 Bill No. 5 V – Drains							
Bill No. 5 V – Drains		Carried to Collection			R		
V – Drains							

TMT-DBE-23/24-SAFEOS-ECCL49 THE MVULA TRUST SAFE PROGRAMME – OMITTED SCOPE

		Unit	Quantity	Rate	Amount	
11	Extra for 1000mm long x 2700mm wide outlet with 300mm deep x 300mm wide thickened edge and thirteen number 150 x 150 x 150mm concrete block energy dissipators set into in-situ concrete draining off to					
	energy dissipaters set into in-situ concrete draining off to and including a 2700 x 600 x 100mm thick bed formed of 19mm diameter stones	No	1			
12	Stormwater dish drain size 900 x 600 x 900mm wide (2400 wide overall) x 300mm deep with 2400 x 150mm deep waterway.	m	3			
	TEST CUBES					
13	Test Cubes Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	3			
	REINFORCEMENT (CPAP WORK GROUP NO. 114)					
	Fabric reinforcement	2	0.7			
14	Type 617 fabric reinforcement in concrete dish drains etc	m²	37			
				_		
	Carried to Collection Section No. 3			R		
	Bill No. 5					
	V – Drains					
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SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 5 V – DRAINS COLLECTION	Brought Forward from Page	Page No 117 118 119		
Carried To S Section No. 3 Bill No. 5 V – Drains	Section Summary	R		
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		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	KHIBA JUNIOR SECONDARY SCHOOL					
	BILL NO. 6					
	SUBSOIL DRAINAGE					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	SUPPLEMENTARY PREAMBLES					
	Laying, backfilling, bedding, etc. of pipes					
	Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled					
	As-built drawings:					
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as-built drawings elsewhere)					
	SUBSOIL DRAINAGE (CPAP WORK GROUP NO. 146)					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m²	40			
	Subsoil drainage					
2	Excavation in earth not exceeding 2m deep for pipe trenches	m³	80			
3	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m³	14			
4	Risk of collapse to sides of trench and hole excavation not exceeding 1.5m deep	m²	150			
5	Keeping excavations free of water	Item				
	Comical to Collection			-		
	Carried to Collection Section No. 3			R		
	Bill No. 6					
	Subsoil Drainage					
	121					

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		Unit	Quantity	Rate	Amount
6	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m³	126		
7	19mm Crushed stone encasing to pipes	m³	54		
	Slotted uPVC flexible drainage pipes				
8	110mm Pipes laid in stone encasing (encasing elsewhere)	m	150		
	Extra over slotted uPVC flexible drainage pipes for fittings				
9	110mm Bend	No	15		
10	110mm Junction	No	3		
	Geotextle filter fabric blanket with stiched 300mm				
	<u>laps</u>				
11	Around stone filling in sub-soil drain trenches	m²	360		
	Carried to Collection			R	
	Section No. 3			K	
	Bill No. 6				
	Subsoil Drainage				
	122				

SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 6 SUBSOIL DRAINAGE COLLECTION	Brought Forward from Page	Page No 121 122	
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Section No. 3 Bill No. 6 Subsoil Drainage	123	K	

		Unit	Quantity	Rate	Amount	
	SECTION NO. 3					
	KHIBA JUNIOR SECONDARY SCHOOL					
	BILL NO. 7					
	SOAKAWAYS & CULVERTS					
	PREAMBLES					
	The Tenderer is referred to the relevant Clause in the separate document Model Preambles for Trades (1999 Edition) published by the Association of South African Quantity Surveyors, the document "PW 371 - A Edition 2.1 - Construction Works: Specifications, General Specification" as published by the Department of Public Works (Edition July 2014) and the Supplementary Preambles which are incorporated in these Bills of Quantities					
	SUPPLEMENTARY PREAMBLES					
	Filling:					
	Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material					
	Testing:					
	Prices for filling are to include for all necessary density tests in accordance with SABS 1200D					
	THE FOLLOWING IN STORMWATER SOAKAWAYS					
	Site clearance					
1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc. and trees not exceeding 200mm girth	m²	2			
	Subsoil drainage					
2	Excavation in earth not exceeding 2m deep for pipe trenches	m³	1			
3	Extra over all excavations for carting away surplus material from excavations and/or stock piles on site, to a					
	dumping site to be located by the contractor	m³	1			
4	Risk of collapse to sides of trench and hole excavation not exceeding 1.5m deep	m²	5			
5	Keeping excavations free of water	Item				
6	Filling in bedding under and filling around pipes with granular material supplied by the contractor and compacted to 98% Mod AASHTO density	m³	1			
	Carried to Collection			R		
	Section No. 3					
	Bill No. 7					
	Soakaways & Culverts					
	124					

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		Unit	Quantity	Rate	Amount	
7	63mm Stone beds	m³	2			
	Geotextle filter fabric blanket with stiched 300mm					
	Around stone filling in out poil drain transhes	m2	4			
8	Around stone filling in sub-soil drain trenches	m²	4			
	Carried to Collection			R		
	Section No. 3			K		
	Bill No. 7					
	Soakaways & Culverts 125					
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SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 7 SOAKAWAYS & CULVERTS COLLECTION Brought Forward from Page	Page No 124 125	
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	SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 8 PROVISIONAL SUMS			
	BUDGETARY ALLOWANCES			
	PROVISIONAL SUMS			
	Supplementary Preambles			
	Tenderers are advised that no claim in respect of loss of profit or Preliminary charges based on the omission of these amounts will be considered and the said amounts will be omitted strictly without any financial compensation payable to the Contractor.			
	Provisional sums and Budgetary allowances contained herein may be omitted or reduced at the Employer's discretion and the Contractor shall not be entitled to claim for any loss by way of reductions or omission of any discount, or percentage relating to Provisional amounts and Budgetary sums or any loss of profit related therto.			
	Sundry building work			
1	Provide the sum of R22 500.00 for the employment of a Community Liaison Officer to be employed by the Main Contractor and be paid an allowance of R7 500.00 a month for the duration (3 months)	Item	22 500	00
2	Profit	Item		
3	Attendance	Item		
4	Provide the sum of R55 000. 00 for the hire, maintenance and servicing of temporary toilets for educators and learners during the entire constructions period	Item	55 000	00
5	Profit	Item	33 333	
6	Attendance	Item		
7	Provide the sum of R10 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required	Item	10 000	00
8	Profit	Item		
9	Attendance	Item		
10	Provide the sum of R120 000. 00 for de-sludging of existing "long drop" pit latrines by means of "honey sucker". The pit latrines are to be completely empty before any other work is carried out	Item	120 000	00
11	Profit	Item		
12	Attendance	Item		
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	Carried to Collection	R		
	Section No. 3			
	Bill No. 8 Provisional Sums			
	Provisional Sums			
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13	Contingencies Allow the Amount of R24 000.00 (Twenty Four Thousand Rands) for contingencies, to be used by the Architect in terms of Clause 17 of the Principal Building Agreement.	ltem	24 000	00
	Carried to Collection Section No. 3	R		
	Bill No. 8 Provisional Sums			

SECTION NO. 3 KHIBA JUNIOR SECONDARY SCHOOL BILL NO. 8 PROVISIONAL SUMS COLLECTION	Brought Forward from Page	Page No 127 128	
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				Amount	
	SECTION NO. 3				
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3	RENOVATIONS		113		
4	GARDEN AND BALUSTRADE WALLS		116		
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1	1 ST MICHAEL'S JUNIOR SECONDARY SCHOOL		
2	BAMBOESPRUIT JUNIOR SECONDARY SCHOOL		
3	KHIBA JUNIOR SECONDARY SCHOOL		
	SubTotal excluding Value Added Tax ADD VAT @ 15%:		
	Carried to Tender	R	<u> </u>
	FINAL SUMMARY		
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