

Item	Description	FORT MALAN JUNIOR SECONDARY SCHOOL Omitted scope in Eastern Cape Province - Cluster 3			
		Unit	Quantity	Rate	Amount
No	<p><u>BILL NO. 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>Disclaimer</u></p> <p><i>While the ASAQS aims to ensure that its publications represent best practice, the ASAQS does not accept or assume any liability or responsibility for any events or consequences thereof that derive from the use of the Preliminaries Master Bill. Such Master Bill is not exhaustive and is therefore only intended to provide general guidance to those who wish to make use of it. This publication is provided "as is" without warranty of any kind, either expressed or implied including but without limitation to warranties of merchantability, fitness for a particular purpose and non-infringement</i></p> <p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p> <p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition 5.0 - reprint 1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described</p> <p>The JBCC Principal Building Agreement Contract Data EC and the JBCC Principal Building Agreement Contract Data CE form an integral part of this agreement</p> <p>The ASAQS Preliminaries (November 2007 edition) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement shall be deemed to be incorporated in these bills of quantities</p> <p>Contractors are referred to the abovementioned documents for the intent and meaning of each clause thereof</p> <p>These clauses are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this agreement such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything contrary contained in the abovementioned documents</p> <p>Where any item is not relevant to this specific agreement such item is marked N/A (signifying "not applicable")</p> <p>Bill No. 1 Preliminaries</p> <p style="text-align: center;">Carried to Collection</p>				R

	<p><u>PREAMBLES FOR TRADES</u></p> <p>Contractor are to refer to The Standard Preambles to All Trades (WB 20) attached to these these Bills of Quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles are incorporated in these Bills of Quantities to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the said Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities must take account of and include for all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles</p>		
1	<p><u>PRICING OF PRELIMINARIES</u></p> <p>Should the contractor select Option A in terms of sub-clause 3.2.1 in the Contract Data - Contractor to Employer (CE) for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value Related (V) and Time Related (T)</p> <p><u>SECTION A: PRINCIPAL BUILDING AGREEMENT</u></p> <p><u>Definitions (A1)</u></p> <p>Clause 1.0 - Definitions and interpretation</p> <p>The measuring system used for the preparation of the bills of quantities is the Standard System of Measuring Building Work (sixth edition, revised 1999) published by the Association of South African Quantity Surveyors [1.1]</p> <p>F:..... V:..... T:.....</p>	Item	
2	<p><u>Objective and preparation (A2 - A14)</u></p> <p>Clause 2.0 - Offer acceptance and performance obligations</p> <p>F:..... V:..... T:.....</p>	Item	R

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7	Clause 7.0 - Compliance with laws and regulations Without limiting the generality of the provisions of clause 7.0, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003 issued in terms of the Occupational Health and Safety Act, 1993. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works . The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification.			
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item		
9	Clause 9.0 - Indemnities F:..... V:..... T:.....	Item		
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item		
11	Clause 11.0 - Special insurances F:..... V:..... T:.....	Item		
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
14	Clause 14.0 - Security Execution (A15 - A23)	Item		
15	Clause 15.0 - Preparation for and execution of the works			
16	Clause 16.0 - Site and access <i>Clause 16.7 - Known services</i> <i>Clause 16.8 - Protection of trees</i> F:..... V:..... T:.....	Item		
17	Clause 17.0 - Contract instructions F:..... V:..... T:.....	Item		
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18	Clause 18.0 -Setting out of the works The contractor shall notify the principal agent if any encroachment 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 [18.1] F:..... V:..... T:.....	Item	
19	Clause 19.0 - Temporary works and plant <i>Clause 19.1.1 - Enclosure of the works</i> <i>Clause 19.1.2 - Office accommodation</i> <i>Clause 19.2 - Advertising rights and notice boards</i> F:..... V:..... T:.....	Item	
20	Clause 20.0 - Nominated subcontractors F:..... V:..... T:.....	Item	
21	Clause 21.0 - Selected subcontractors F:..... V:..... T:.....	Item	
22	Clause 22.0 - Employer's direct contractors F:..... V:..... T:.....	Item	
23	Clause 23.0 - Contractor's domestic subcontractors F:..... V:..... T:.....	Item	

	<u>Completion (A24 - A30)</u>			
24	Clause 24.0 - Practical completion F:..... V:..... T:.....	Item		
25	Clause 25.0 - Works completion F:..... V:..... T:.....	Item		
26	Clause 26.0 - Final completion F:..... V:..... T:.....	Item		
27	Clause 27.0 - Latent defects liability period F:..... V:..... T:.....	Item		
28	Clause 28.0 - Sectional completion N/A F:..... V:..... T:.....	Item		
29	Clause 29.0 - Revision of date for practical completion The removal and replacement of materials and/or workmanship which do not conform to the specification or the contract drawings shall not constitute grounds for the extension of the construction period nor for the adjustment of the contract value (Clause 29.3) F:..... V:..... T:.....	Item		
30	Clause 30.0 - Penalty for late or non-completion F:..... V:..... T:.....	Item		
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	Payment (A31 - A35)		
31	<p>Clause 31.0 - Interim payment</p> <p>The inclusion of materials and goods stored off site in the amount authorised for payment in terms of clause 31.4 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. Clause 31.6.5 is therefore not applicable.</p> <p>Materials and goods stored off site shall not be included in the amount authorised for payment [31.6.5]?</p> <p>F:..... V:..... T:.....</p>	Item	
32	<p>Clause 32.0 - Adjustment to the contract value</p> <p>All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor.</p> <p>Where prices are submitted by the contractor or n/s subcontractor during the progress of the works in respect of contract instructions or in regard to a claim under the terms of the agreement 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 certificate of final completion, it shall be in writing.</p> <p>The contractor shall not receive any mark-up for overheads and profit on any omission of tenant installation work or tenant installation work by others. Claims for loss of profit shall not be entertained.</p> <p>F:..... V:..... T:.....</p>	Item	
33	Clause 33.0 - Recovery of expense and loss	Item	
34	Clause 34.0 - Final account and final payment	Item	
35	Clause 35.0 - Payment to other parties	Item	
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	<u>Termination (A36 - A39)</u>		
36	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item	
37	Clause 37.0 - Termination by employer - loss and damage F:..... V:..... T:.....	Item	
38	Clause 38.0 - Termination by contractor - employer's default F:..... V:..... T:.....	Item	
39	Clause 39.0 - Termination - cessation of the works F:..... V:..... T:.....	Item	
	<u>Dispute (A40)</u>		
40	Clause 40.0 - Settlement of disputes F:..... V:..... T:.....	Item	
	<u>Contract variables (A41 - A42)</u>		
41	Clause 41.0 - Post tender provisions The contractor is to complete before submission of his tender the JBCC Principal Building Agreement Contract Data CE F:..... V:..... T:.....	Item	
42	Clause 42.0 - Contractual agreement The required information of the parties and the amount of the contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item	
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	<u>SECTION B: PRELIMINARIES</u>			
43	<u>Definitions and interpretation (B1)</u> Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item		
44	<u>Documents (B2)</u> Clause 2.1 - Checking of documents F:..... V:..... T:.....	Item		
45	Clause 2.2 - Provisional bills of quantities These bills of quantities are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are budgetary allowances and/or Selected/nominated subcontract amounts? F:..... V:..... T:.....	Item		
46	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected/nominated subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected/nominated subcontractors during the construction period . <u>Previous work and adjoining properties (B3)</u>			
47	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item		
48	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item		
49	Clause 3.3 - Inspection of adjoining properties F:..... V:..... T:.....	Item		
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	<u>Samples, shop drawings and manufacturer's instructions (B4)</u>			
50	Clause 4.1 - Samples of materials F:..... V:..... T:.....	Item		
51	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item		
52	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item		
53	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item		
	<u>Deposits and fees (B5)</u>			
54	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item		
	<u>Temporary services (B6)</u>			
55	Clause 6.1 - Water F:..... V:..... T:.....	Item		
56	Clause 6.2 - Electricity F:..... V:..... T:.....	Item		
57	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item		
58	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item		
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	<u>Prime cost amounts (B7)</u>			
59	Clause 7.1 - Responsibility for prime cost amounts			
	<u>Special attendance on n/s subcontractors (B8)</u>			
60	Clause 8.1 - Special attendance			
	F:..... V:..... T:.....	Item		
	<u>General (B9)</u>			
61	Clause 9.1 - Protection of the works			
	F:..... V:..... T:.....	Item		
62	Clause 9.2 - Protection/isolation of existing/sectionally occupied works			
	F:..... V:..... T:.....	Item		
63	Clause 9.3 - Security of the works			
	F:..... V:..... T:.....	Item		
64	Clause 9.4 - Notice before covering work			
	F:..... V:..... T:.....	Item		
65	Clause 9.5 - Disturbance			
	F:..... V:..... T:.....	Item		
66	Clause 9.6 - Environmental disturbance			
	The contractor shall comply with good practice in terms of environmental management.			
	F:..... V:..... T:.....	Item		
67	Clause 9.7 - Works cleaning and clearing			
	F:..... V:..... T:.....	Item		
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68	Clause 9.8 - Vermin F:..... V:..... T:.....	Item			
69	Clause 9.9 - Overhand work F:..... V:..... T:.....	Item			
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<p>Schedule of variables (B10)</p> <p>Information necessary for elections and completion of those clauses contained in the schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract</p> <p>10.1 - Provisional bills of quantities The quantities are provisional - No</p> <p>10.2 - Availability of construction documentation Construction documentation is complete - Yes</p> <p>10.3 - Previous work - dimensional accuracy</p> <p>10.4 - Previous work - defects</p> <p>10.5 - Inspection of adjoining properties</p> <p>10.6 - Water Option A (by contractor) - Yes Option B (by employer - free of charge) - No Option C (by employer - metered) - No</p> <p>10.7 - Electricity [7.3] Option A (by contractor) - Yes Option B (by employer - free of charge) - No Option C (by employer - metered) - No</p> <p>10.8 - Telecommunications [7.4] Telephone - Yes Facsimile - No E-mail - No</p> <p>10.9 - Ablution facilities [7.5] Option A (by contractor) - Yes Option B (by employer) - No</p> <p>10.10 - Protection of the works [9.1]</p> <p>10.11 - Protection/isolation of existing/sectionally occupied works [9.2] Protection/isolation is required - Yes</p> <p>10.12 - Disturbance [9.5]</p> <p>10.13 - Environmental disturbance [9.6]</p>			
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	SECTION C: SPECIFIC PRELIMINARIES			
70	Site instructions Contract instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor			
71	F:..... V:..... T:..... Warranties for materials and workmanship Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer , from the firm supplying the materials and/or doing the work and shall deliver same to the on the final completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor	Item		
72	F:..... V:..... T:..... Co-operation of the contractor for cost management It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors	Item		
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73	Propping of floors below The contractor is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of materials and goods and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the principal agent and the cost thereof shall be borne by the contractor F:..... V:..... T:.....	Item	
74	Testing of windows for water tightness Each window shall be tested for water tightness with water sprayed on using adequate pressure. If in the opinion of the principal agent the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means F:..... V:..... T:.....	Item	
75	Testing of flat roof waterproofing for water tightness Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent , flooded with water and kept "ponded" for at least 36 hours as a test to ensure the water tightness of the waterproofing and before any further construction work is carried out above the waterproofing F:..... V:..... T:.....	Item	
	<u>SUMMARY OF CATEGORIES</u> Category : Fixed R Category : Value R Category : Time R		

		FORT MALAN JUNIOR SECONDARY SCHOOL			
		Omitted scope in Eastern Cape Province - Cluster 3			
Item	No	Unit	Quantity	Rate	Amount
	<p><u>BILL NO. 2</u></p> <p><u>HEALTH AND SAFETY</u></p> <p><u>MODEL PREAMLES</u></p> <p>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</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>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.</p> <p>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.</p> <p>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.</p> <p>The items in this Bill do not contain quantities hence the Contractor must insert his own quantities based on his individual requirements to comply with the Health and Safety obligations and demands of the Occupational Health and Safety Act No. 85 of 1993, Construction Regulations 2014, other relevant Regulations and Standards as well as project specific Health & Safety Specifications.</p> <p>The costs included herein must incorporate Community Liaison Officer (CLO).</p> <p><u>OCCUPATIONAL HEALTH AND SAFETY</u></p> <p><u>General:</u></p> <p>1 Preparation of Contractor's site specific Health and Safety Plan.</p> <p>2 Submission of the Health and Safety File.</p> <p>3 Principal Contractor's initial obligations in respect of the OHS Act and Construction Regulations.</p>				
		Carried to Collection			
	Bill No. 2 Health and Safety				

4	Principal Contractor's time related obligations in respect of the OHS Act and Construction Regulations for the entire construction period.	Item	1	
5	Provision of full time Health and Safety Officer for the entire construction period.	Item	1	
6	Induction training of all personnel.	No	1	
7	Provision of first aid boxes.	No	1	
8	SANS approved weld mesh type temporary barrier fencing 1,8m high covered with a net fixed to and including 100mm diameter gum poles set securely min 300mm deep in ground at max 3m spacing including excavation, backfilling, etc	m	200	
9	Extra over mesh fence for pedestrian gate size 1.8 x 1,8m high.	No	1	
	<u>Provision for Personal Protective Equipment and Protective Clothing:</u>			
11	Provision of Protective Equipment and clothing	Item	1	
	<u>C16. Covid-19 Compliance Measures</u>			
12	The Contractor is required to price for Covid 19 compliance and the pricing thereof shall be deemed to include all the mandatory requirements.	Item	1	

Bill No. 2
Health and Safety

Carried to Collection

Bill No. 2	Page No	AMOUNT
Health and Safety	-17-	
<u>COLLECTION</u>		
Total Brought Forward From page	-18-	

Item No		FORT MALAN JUNIOR SECONDARY SCHOOL Omitted scope in Eastern Cape Province - Cluster 3			
		Unit	Quantity	Rate	Amount
1	<p><u>BILL No. 3</u></p> <p><u>SUNDRY BUILDERS WORK</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p><u>DOORS ETC</u></p> <p><u>Wrought meranti doors hung to steel frames / wooden frame</u></p> <p>44mm Framed batten door 813 x 2032mm high of 44 x 150mm top rail and stiles, 22 x 150mm middle ledge and braces and 22 x 220mm bottom rail filled in with 22mm V-jointed one side boarding and covered on other side and including rebates all round</p> <p><u>IRONMONGERY</u></p> <p><u>LOCKS</u></p> <p>Note: Locks to be suitable for and master and sub master keysystems</p> <p><u>Union or similar approved</u></p> <p>2 50mm Padlock</p> <p>3 Three lever lockset</p> <p><u>LETTERS, NAMEPLATES, PUSHPLATES, ETC</u></p> <p><u>Assa Abloy' or other similar approved</u></p> <p>4 150 x 150mm engraved aluminium "male" indicator plate</p> <p>5 150 x 150mm engraved aluminium "female" indicator plate</p> <p>6 150 x 150mm engraved aluminium "Disabled" indicator plate</p> <p><u>BATHROOM FITTINGS</u></p> <p><u>"Vaal Paragon"</u></p> <p>7 32mm Type 9 back grab rail 800mm long plugged</p> <p>8 32mm Type 8 side grab rail 900mm girth plugged</p>	No	2.00		
	Bill No. 3 Sundry Builders Work	Carried to Collection			

	<u>TRAPS ETC</u>			
	<u>uPVC</u>			
14	38 x 50mm Deep seal trap	No	1.00	
	<u>Chromium plated</u>			
15	38 x 50mm Bottle trap	No	1.00	
	<u>TAPS, VALVES, ETC</u>			
	<u>"Cobra watertech" or equal approved</u>			
16	15mm Code KM 2.100 self closing pillar tap	No	1.00	
17	Flushmaster FJ6.000 urinal flush valve	No	1.00	
	<u>SANITARY PLUMBING</u>			
	<u>PVC waste or vent pipes and fittings:</u>			
18	50mm Waste pipe.	m	2.00	
	<u>Extra for:</u>			
19	50mm BSP adaptor	No	2.00	
20	50mm Bend.	No	2.00	
21	50mm Access bend.	No	2.00	
Carried to Collection				
Bill No. 3				
Sundry Builders Work				

Item	Description	FORT MALAN JUNIOR SECONDARY SCHOOL			
		Omitted scope in Eastern Cape Province - Cluster 3			
No		Unit	Quantity	Rate	Amount
	<u>BILL No. 4</u>				
	<u>EXTERNAL WORKS (PROVISIONAL)</u>				
	<u>MODEL PREAMBLES</u>				
	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				
	<u>THE FOLLOWING IN ONE BRICK WALL</u> <u>(GARDEN WALL)</u>				
	<u>Excavation in earth not exceeding 2m deep:</u>				
1	Trenches.	m3	58		
	<u>Extra over trench and hole excavations in earth for excavation in</u>				
2	Soft rock	m3	3		
3	Hard rock	m3	3		
	<u>Extra over all excavations for carting away:</u>				
	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3	36		
	<u>Risk of collapse of excavations:</u>				
4	Sides of trench and hole excavations not exceeding 1,5m deep.	m2	193		
	<u>Keeping excavations free of water</u>				
5	Keeping excavations free of water	Item	1		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% MOD AASHTO density:</u>				
6	Backfilling to trenches, holes, etc.	m3	22		
	<u>Compaction of surfaces</u>				
7	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	96		
	<u>Carried to Collection</u>				
	Bill No. 4 External Works				

SOIL POISONING			
<u>Soil insecticide to be executed with SABS compliance by a firm of specialists under a 5 year guarantee</u>			
8	To bottoms and sides of trenches, etc.	m2	289
REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES			
<u>25 Mpa/19mm Concrete</u>			
9	Strip footings.	m3	24
<u>Test blocks:</u>			
10	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4
<u>Reinforcement (Provisional)</u>			
11	High tensile steel reinforcement bars to structural concrete work.	t	2
<u>BRICKWORK IN FOUNDATIONS.</u>			
<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in Class I mortar (Cement to be 42.5N all-purpose cement):</u>			
12	One brick walls.	m2	52
<u>BRICKWORK IN SUPERSTRUCTURE</u>			
<u>Brickwork of NFP bricks (14 MPa nominal compressive strength) in Class II mortar (Cement to be 42.5N all-purpose cement):</u>			
13	One brick walls.	m2	
<u>Brickwork reinforcement:</u>			
14	230mm Wide reinforcement built in horizontally.	m	759
15	Ditto but in foundations.	m	253
Carried to Collection			

FACE BRICK			
<u>"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):</u>			
16	One brickwall faced on both sides.	m2	84
<u>Brick-on-edge header course copings, sills, etc, of "Rustgold FBS/Qunu Travertine" or equal approved face bricks pointed with recessed joints on all exposed faces, 220mm wide sill set sloping and slightly projecting:</u>			
17	230mm wide header course to top of one brick wall bedded and jointed in cement mortar and pointed on top and both sides as described.	m	161
<u>Cast in-situ Ref 395 mesh reinforced concrete (25MPa) open stormwater channels having V-shaped waterway formed in top, finished smooth on all exposed surfaces in 3:1 cement plaster trowelled smooth and with angles rounded, cast in suitable lengths not exceeding 2m, including all formwork, moulds, shallow excavation, filling and ramming, laying to falls, bedding and pointing in 3:1 cement mortar. Concrete apron to be tinted, colour to be specified by the Engineer.</u>			
18	700 x 80mm thick V' channel 150mm deep in centre laid in position in ground in 2000mm sections including all formwork, reinforcement, expansion joints, smooth finishing to top of concrete surface etc.	m	161
Extra for 700mm angle.			
19	Extra for forming 200mm thick 700mm wide spreader with 200mm high edges fanning out to 1 960mm width at furthest end with hard burnt bricks pitching cast in as diffusers including working off concrete to a smooth finish and draining onto natural ground with 150 - 200mm diameter loose stones.	No	2
<u>THE FOLLOWING IN WALKWAYS</u>			
<u>Demolish and remove</u>			
20	80mm thick ramps and walkways	m2	12
Carried to Collection			
Bill No. 4			
External Works			

	<u>Two-part grey polysulphide sealing compound</u> backing cord, bond breaker, primer, etc		
30	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	15
31	<u>Fabric reinforcement:</u> REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	12
32	<u>Waterproofing under Surface beds</u> 350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	12
	<u>THE FOLLOWING IN DISABLED ACCESS RAMPS</u>		
	<u>Demolish and remove</u>		
33	80mm thick ramps and walkways	m2	9
	<u>Extra over all excavations for loading, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>		
34	Off site to a dumping site to be found by the Contractor.	m3	1
	<u>Filling supplied by the contractor under floors, aprons, etc</u>		
35	G7 Base course material compacted to 98% Mod AASHTO density	m3	4
	<u>Reinforced 25Mpa/19mm Concrete:</u>		
36	Ramps, Landings, etc.	m3	12
	<u>Test blocks:</u>		
37	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4
	<u>Expansion joints with bitumen impregnated softboard</u> <u>between vertical concrete or brick surfaces:</u>		
38	12mm Joints not exceeding 300mm high.	m	9
	<u>Carried to Collection</u>		

	<u>Fabric reinforcement:</u>				
39	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	9		
	<u>Waterproofing under Surface beds</u>				
40	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	9		
	<u>THE FOLLOWING IN STORMWATER DRAINAGE, APRONS ETC.</u>				
	<u>STORMWATER APRONS</u>				
	<u>Excavation not exceeding 2m deep</u>				
41	Reducing levels and depositing excavated material inprescribed stock piles on site.	m3	4		
	<u>Extra over all excavations for loadina, carting and dumping surplus excavated material (no allowance made for increase in bulk):</u>				
42	Off site to a dumping site to be found by the Contractor.	m3	19		
	<u>Filling supplied by the contractor under floors, aprons, ect</u>				
43	G7 Base course material compacted to 98% ModAASHTO density	m3	8		
44	Over site of Selected Subgrade G5 material in accordance with SABS 1 200 DM in layers not exceeding 150mm thick and compacted to 95% Mod AASHTO density.	m3			
	<u>Coarse river sand filling supplied by the contractor:</u>				
45	Under floors etc.	m3			
	<u>Compaction of surfaces:</u>				
46	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2	150		
	<u>Prescribed density tests on filling.</u>				
47	In-situ dry density test.	No	2		
		Carried to Collection			
	Bill No. 4 External Works				

	Reinforced 25Mpa/19mm Concrete:				
48	Surface beds cast in panels on waterproofing.	m3	13		
49	Edge thickening	m3	3		
	Finishing top surfaces of concrete smooth with a wood float:				
50	Surface beds, slabs, etc to falls and currents.	m2	150		
	Test blocks:				
51	Making and testing of 150x150x150mm concrete strength test cubes (Provisional).	No	4		
	Expansion joints with bitumen impregnated softboard between vertical concrete or brick surfaces:				
52	12mm Joints not exceeding 300mm high.	m	38		
	Two-part grey polysulphide sealing compound including backing cord, bond breaker. primer. Etc				
53	10 x 12mm In movement joints in floors or walls including raking out expansion joint filler as necessary.	m	15		
	Fabric reinforcement:				
54	REF. 395 fabric reinforcement in concrete surface beds, slabs, etc.	m2	150		
	Waterproofing under Surface beds				
55	350 Micron USB orange polyethylene dampproof membrane in accordance with SABS 952 Type C laid on sand bed (elsewhere measured).	m2	150		
	THE FOLLOWING IN SUB-SOIL DRAINAGE ETC.				
	Site Clearance. ETC				
56	Digging up and removing rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bush, etc	m2			
	Excavation in earth not exceeding 2m deep:				
57	Trenches.	m3			
		Carried to Collection			
	Bill No. 4 External Works				

	<u>Extra over all excavations for carting away:</u>				
58	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the Contractor.	m3			
	<u>Risk of collapse of excavations:</u>				
59	Sides of trench and hole excavations not exceeding 1,5m deep.	m2			
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site opmpacted to 93% MOO AASHTO density:</u>				
60	Backfilling to trenches, holes, etc.	m3			
	<u>Earth filling 300 x 300mm section of 19mm thick stone material surrounding 110mm uPVC pipe. supplied by the contractor compacted to 98% Mod AASHTO density:</u>				
61	19mm Stone.	m3			
	<u>Membrane</u>				
62	""Geofabric filter blanket wrapped around stone with 150mm side and 300mm end laps, including stitching.	m2			
	<u>Keeping excavations free of water:</u>				
63	Keeping excavations free from mud and all water including subterranean sources.	Item			
	<u>Compaction of surfaces</u>				
64	Compaction of ground surface under floors, etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 90% Mod AASHTO density.	m2			
	<u>SOIL DRAINAGE</u>				
	<u>160mm Diameter perforated uPVC pipe surrounded with 300 x 300mm section of 20mm stone wrapped in A3 geotextile material.</u>				
65	160mm uPVC pipe.	m			
	<u>Extra for:</u>				
66	160mm Tee.	No			
67	160mm Bend.	No			
		Carried to Collection			
	Bill No. 4 External Works				

	THE FOLLOWING IN HEADWALLS			
68	Excavation not exceeding 2m deep.	m3		
69	Risk of collapse not exceeding 1,5m deep	m2		
70	Keeping excavations free from water	Item		
71	Carting away surplus excavated material	m3		
72	150mm layer of G7 material compacted to 95% MOD PASHTO under concrete slab.	m3		
73	150mm layer of G5 material compacted to 95% MOD AASHTO under concrete slab.	m3		
74	25Mpa/19mm Reinforced concrete in bottom slabs and footings.	m3		
75	Formwork to edges, risers, ends and reveals not exceeding 300mm wide or high.	m		
76	Weld Mesh Ref 193 in Concrete bottom slab.	m2		
77	One brick wall of 14 MPa NFX bricks.	m2		
78	230mm Wide reinforcement built in horizontally.	m		
	THE FOLLOWING IN SECURITY FENCING, ETC			
	Site clearance			
79	Allow for clearing site for the width of 1 000 mm where fencing is to be erected including removing trees, shrubs etc. not exceeding 200 mm girth, grubbing up roots and roughly levelling.	m2		
	Straining wires, fencing and razor wire:			
80	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		
81	3 Strands of galvanised barbed wire tied to standards, posts and eye bolts	m		
	Carried to Collection			
	Bill No. 4 External Works			

82	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 Y 12 pegs at 900mm c/c between posts (strainina wires elsewhere measured).	m		
Posts for 1 800mm high security fence:				
83	60mm Diameter galvanised steel intermediate fencing post 3,000mm long fitted with a pressed steel mushroom cap one end and 150 x 150 x 5 mm baseplate at bottom and embedded in and including 350 x 350 x 600 mm mass concrete (15 MPa) base.	No		
84	100mm Ditto as corner post, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No		
85	150mm Ditto as gate post 3,000mm long, fitted with two 50mm diameter galvanised steel stay set raking and with top end flattened and bolted through post, with post and stay both embedded in mass concrete (15 MPa) bases as last.	No		
86	12mm Diameter galvanised mild steel straining eye bolt with hook, threaded portion and two nuts and washers.	No		
87	Form 12mm diameter hole through fence post.	No		
Gates:				
88	Security fence single gate, size 1 000 mm wide x 2 400 mm high, formed of 50 mm diameter nominal bore x 3,25 mm wall thickness hot dip galvanised mild steel pipe framing all round with mitred and welded angles and cross braces mullion and transome, scribed and welded into angles and at cross intersections, With two 50 mm diameter nominal bore x 3,25 mm wall thickness security posts each 600 mm long with one end welded to top rail of gate and closure plate to other end, the gate covered with 100 x 50 x 2,5 mm weld mesh with four straining wires as before described and with four 2,37 mm four point core diameter single Okampeonwires with crimped droppers to security posts as before described; including three strands flat wrap razor barbed tape wire fixed as before described, leaf fitted with three 24 mm diameter x 300 mm long eyebolt hinges and stops including all holes, etc., welded or bolted to adjoining galvanised gatepost with and including 500 mm long approved chain spot welded to	No		

Bill No. 4	External Works	<u>COLLECTION</u>	Page No	AMOUNT
		Total Brought Forward From page	-24-	
			-25-	
			-26-	
			-27-	
			-28-	
			-29-	
			-30-	
			-31-	
			-32-	
			-33-	
Carried to Final Summary			R	
Bill No. 4				
External Works				

Item No		FORT MALAN JUNIOR SECONDARY SCHOOL Omitted scope in Eastern Cape Province - Cluster 3			
		Unit	Quantity	Rate	Amount
	<u>BILL No. 5</u> <u>PROVISIONAL SUMS</u> <u>SUPPLEMENTARY PREAMBLES</u> Lenderers 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 thereto. <u>BUDGETARY ALLOWANCES</u> <u>The following budgetary allowances are for work to be executed at rates in the bills of quantities or to be agreed by the Principal agent:</u> 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) Profit and attendance on the above item <u>LANDSCAPING</u> Provide the sum of R70 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required Profit and attendance on the above item <u>HIRING OF ABLUTION FOR LEARNERS WHILE REPAIRS TAKING PLACE</u> Provide the sum of R30 000. 00 for landscaping to be used as directed by the Principal Agent and deducted in whole or in part if not required Profit and attendance on the above item Carried to Final Summary				
		Item			22,500.00
		Item			70,000.00
		Item			30,000.00
				R	

		FORT MALAN JUNIOR SECONDARY SCHOOL		
		Omitted scope in Eastern Cape Province - Cluster 3		
Bill No		Page No	Amount	
1	PRELIMINARIES	-16-		
2	HEALTH AND SAFETY	-19-		
3	SUNDRY BUILDERS WORK	-23-		
4	EXTERNAL WORKS (PROVISIONAL)	-34-		
5	PROVISIONAL SUMS	-35-		
	Sub-total			
	<u>CONTINGENCY SUM</u>			
6	Allow for 5% Contingencies for works, to be used as directed by the Project Manager and deducted in whole or in part if not required			
	Sub-total of works Excluding VAT			
	Value Added Tax @ 15%			
	Sub Total (VAT INCL.) CARRIED TO TENDER FORM	R		