

Item No	Quantity	Rate	Amount
<p><u>SECTION 1</u></p>			
<p><u>BILL No. 1</u></p>			
<p><u>PRELIMINARIES</u></p>			
<p><u>BUILDING AGREEMENT AND PRELIMINARIES</u></p>			
<p>The JBCC Series 2000 Principal Building Agreement (July 2007 edition) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described</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 full 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 contract 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 contract such item is marked N/A, signifying "not applicable"</p>			
<p><u>PREAMBLES FOR TRADES</u></p>			
<p>The Model Preambles for Trades (1999 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p>			
<p>Carried to Collection</p>		R	
<p>Section 1 Preliminaries Bill No. 1 Preliminaries King Hintsha TVET College - Teko Campus Refurbishments</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

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

PRICING OF PRELIMINARIES

Should the contractor select Option A in terms of subclause 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)

SECTION A - PRINCIPAL BUILDING AGREEMENT

Definitions

1 Clause 1.0 - Definitions and interpretation

F:..... V:.....
T:.....

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Objective and preparations

2 Clause 2.0 - Offer acceptance and performance obligations

F:..... V:.....
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3 Clause 3.0 - Documents

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4 Clause 4.0 - Design responsibility

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Section 1
Preliminaries
Bill No. 1
Preliminaries

King Hintsha TVET College - Teko Campus Refurbishments

1	<p>Clause 5.0 - Employer's agents</p> <p>F:..... V:..... T:.....</p>	Item		
2	<p>Clause 6.0 - Contractor's site representative</p> <p>F:..... V:..... T:.....</p>	Item		
3	<p>Clause 7.0 - Compliance with laws and regulations</p> <p>F:..... V:..... T:.....</p>	Item		
	<p>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 specifications</p>			
4	<p>Clause 8.0 - Works risk</p> <p>F:..... V:..... T:.....</p>	Item		
5	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item		
6	<p>Clause 10.0 - General insurances</p> <p>F:..... V:..... T:.....</p>	Item		
7	<p>Clause 11.0 - Special insurances</p> <p>F:..... V:..... T:.....</p>	Item		
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1	<p>Clause 12.0 - Effecting insurances</p> <p>F:..... V:.....T:.....</p>	Item		
2	<p>Clause 13.0 - Assignment</p> <p>F:..... V:..... T:.....</p>	Item		
3	<p>Clause 14.0 - Security</p> <p>F:..... V:..... T:.....</p>	Item		
<u>Execution</u>				
4	<p>Clause 15.0 - Preparation for and execution of the works</p> <p>F:..... V:..... T:.....</p>	Item		
5	<p>Clause 16.0 - Site and access</p> <p> Clause 16.7 - <i>Known services</i></p> <p> Clause 16.8 - <i>Protection of trees</i></p> <p>F:..... V:..... T:.....</p>	Item		
6	<p>Clause 17.0 - Contract instructions</p> <p>F:..... V:..... T:.....</p>	Item		
7	<p>Clause 18.0 - Setting out of the works</p> <p>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.</p> <p>F:</p> <p>V:.....T:.....</p>	Item		
<p>Carried to Collection</p>				
<p>Section 1 Preliminaries Bill No. 1 Preliminaries King Hintsha TVET College - Teko Campus Refurbishments</p>			R	

1	<p>Clause 19.0 - Temporary works and plant</p> <p> Subclause 19.1.1 - <i>Enclosure of the works</i></p> <p> Subclause 19.1.2 - <i>Office accommodation</i></p> <p> Clause 19.2 - <i>Notice boards</i></p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
2	<p>Clause 20.0 - Nominated subcontractors</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
3	<p>Clause 21.0 - Selected subcontractors</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
4	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
5	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
	<u>Completion</u>	
6	<p>Clause 24.0 - Practical completion</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
7	<p>Clause 25.0 - Works completion</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item
8	<p>Clause 26.0 - Final completion</p> <p>F:..... V:.....</p> <p>T:.....</p>	Item

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1 Clause 27.0 - Latent defects liability period

F:..... V:.....
T:.....

Item

2 Clause 28.0 - Sectional completion

F:..... V:.....
T:.....

Item

3 Clause 29.0 - Revision of date for practical completion

The removal and replacement of materials and/or workmanship which do not conform to specification or drawing 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

4 Clause 30.0 - Penalty for late or non-completion

F:..... V:.....
T:.....

Item

Payment

5 Clause 31.0 - Interim payment

Materials and goods stored off site shall not be included in the amount authorised for payment

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T:.....

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Refurbishments**

1 Clause 32.0 - Adjustment to the contract value

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the contractor

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 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 payment certificate, it shall be in writing

F:..... V:.....
T:.....

Item

2 Clause 33.0 - Recovery of expense and loss

F:..... V:.....
T:.....

Item

3 Clause 34.0 - Final account and final payment

F:..... V:.....
T:.....

Item

4 Clause 35.0 - Payment to other parties

F:..... V:.....
T:.....

Item

Termination

5 Clause 36.0 - Termination by employer - contractor's default

F:..... V:.....
T:.....

Item

6 Clause 37.0 - Termination by employer - loss and damage

F:..... V:.....
T:.....

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1 Clause 38.0 - Termination by contractor - employer's default

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T:.....

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2 Clause 39.0 - Termination - cessation of the works

F:..... V:.....
T:.....

Item

Dispute

3 Clause 40.0 - Settlement of disputes

F:..... V:.....
T:.....

Item

Contract agreement

4 Clause 41.0 - Post tender provisions

The required post tender information shall be inserted in the post tender provisions after consultation with the contractor

Item

5 Clause 42.0 - Contractual agreement

The required information of the contracting parties and the amount of the accepted contract sum shall be inserted in the contractual agreement for signature of the agreement by the contracting parties

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SECTION B - PRELIMINARIES

Definitions and interpretation

1 Clause 1.0 - Definitions and interpretation

F:..... V:.....
T:.....

Item

Documents

2 Clause 2.1 - Checking of documents

F:..... V:.....
T:.....

Item

3 Clause 2.2 - Provisional bills of quantities

F:..... V:.....
T:.....

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4 Clause 2.3 - Availability of construction documentation

F:..... V:.....
T:.....

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Previous work and adjoining properties

5 Clause 3.1 - Previous work - dimensional accuracy

F:..... V:.....
T:.....

Item

6 Clause 3.2 - Previous work - defects

F:..... V:.....
T:.....

Item

7 Clause 3.3 - Inspection of adjoining properties

F:..... V:.....
T:.....

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Samples, shop drawings and manufacturer's instructions

8 Clause 4.1 - Samples of materials

F:..... V:.....
T:.....

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1	Clause 4.2 - Workmanship samples F:..... V:..... T:.....	Item	
2	Clause 4.3 - Shop drawings F:..... V:..... T:.....	Item	
3	Clause 4.4 - Compliance with manufacturer's instructions F:..... V:..... T:.....	Item	
	<u>Deposits and fees</u>		
4	Clause 5.1 - Deposits and fees F:..... V:..... T:.....	Item	
	<u>Temporary services</u>		
5	Clause 6.1 - Water F:..... V:..... T:.....	Item	
6	Clause 6.2 - Electricity F:..... V:..... T:.....	Item	
7	Clause 6.3 - Telecommunication facilities F:..... V:..... T:.....	Item	
8	Clause 6.4 - Ablution facilities F:..... V:..... T:.....	Item	
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Prime cost amounts

1 Clause 7.1 - Responsibility for prime cost amounts

F:..... V:.....
T:.....

Item

Special attendance on n/s subcontractors

2 Clause 8.1 - Special attendance

F:..... V:.....
T:.....

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General

3 Clause 9.1 - Protection of the works

F:..... V:.....
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4 Clause 9.2 - Protection/isolation of existing/sectionally occupied works

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T:.....

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5 Clause 9.3 - Security of the works

F:..... V:.....
T:.....

Item

6 Clause 9.4 - Notice before covering work

F:..... V:.....
T:.....

Item

7 Clause 9.5 - Disturbance

F:..... V:.....
T:.....

Item

8 Clause 9.6 - Environmental disturbance

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1 Clause 9.7 - Works cleaning and clearing

F:..... V:.....
T:.....

Item

2 Clause 9.8 - Vermin

F:..... V:.....
T:.....

Item

3 Clause 9.9 - Overhand work

F:..... V:.....
T:.....

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Schedule of variables

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

10.1 - Provisional bills of quantities [clause 2.2]

The quantities are provisional **Yes**

10.2 - Availability of construction documentation [clause 2.3]

Construction documentation is complete **Yes**

10.3 - Previous work - dimensional accuracy [clause 3.1]

The contractor is responsible for ensuring the dimensional accuracy and integrity of each building and must satisfy himself as to opening sizes, etc before ordering components

10.4 - Previous work - defects [clause 3.2] N/A

10.5 - Inspection of adjoining properties [clause 3.3] N/A

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- 10.6 - Water [clause 7.2]
- Option A (by contractor) No
- Option B (by employer - free of charge) Yes
- Option C (by employer - metered) No
- 10.7 - Electricity [clause 7.3]
- Option A (by contractor) No
- Option B (by employer - free of charge) Yes
- Option C (by employer - metered) No
- 10.8 - Telecommunications [clause 7.4]
- Telephone Yes
- Facsimile No
- E-mail No
- 10.9 - Ablution facilities [clause 7.5]
- Option A (by contractor) Yes
- Option B (by employer) No
- 10.10 - Protection of the works [clause 9.1]
- The contractor shall provide, erect, alter as necessary, maintain, remove and make good on completion of the works, suitable hoardings or temporary fencing as necessary for the enclosure of the works and protection of the public, to the satisfaction of the Principal Agent
- 10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]
- Protection/isolation is required Yes

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10.12 - Disturbance [clause 9.5]

The contractor shall execute the works with as little noise and disturbance as possible to adjoining premises and occupants thereof; he shall keep the site, structures, etc well watered during operations to prevent dust and shall provide, erect and remove on completion of the works, all necessary temporary dust screens, to the satisfaction of the Principal Agent

10.13 - Environmental disturbance [clause 9.6]

No specific requirements

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SECTION C - SPECIFIC PRELIMINARIES

1 Site instructions

Instructions issued on site are to be recorded in triplicate in a site instruction book which is to be maintained on site by the contractor

F:..... V:.....
T:.....

Item

2 Warranties for material 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 principal agent on the certified completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified 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

F:.....V:.....T:.....

Item

3 Co-operation of 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

F:.....V:.....T:.....

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1 **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

2 **Testing of windows for watertightness**
 Each window shall be tested for watertightness 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

3 **Testing of flat roof waterproofing for watertightness**
 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 watertightness of the waterproofing and before any further construction work is carried out above the waterproofing

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SUMMARY OF CATEGORIES

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

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<p><u>SECTION 2</u></p>			
<p><u>BILL No.1</u></p>			
<p><u>ALTERATIONS AND REFURBISHMENTS (PROVISIONAL)</u></p>			
<p><u>GENERAL PREAMBLES</u></p>			
<p>For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors</p>			
<p><u>GENERAL</u></p>			
<p>In taking down and removing existing work utmost care shall be observed to prevent structural or other damage to remaining portions of the building and the Contractor shall provide all shoring, needling, strutting, etc. to ensure the stability of all structures during alteration work</p>			
<p>Special care shall be exercised during the progress of the work to ensure that any electrical installations, water supply pipes, telephone and other services that may be encountered are not interfered with and notice shall be given to the Representative/Agent if any disconnection or alterations become necessary</p>			
<p><u>SIZE PERTAINING TO EXISTING WORK</u></p>			
<p>The Contractor is advised to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the correctness of sizes of all new work</p>			
<p>Carried to Collection</p>			
<p>Section 2 Building Work Bill No. 1 Alterations King Hintsha TVET College - Teko Campus Refurbishments</p>			
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OLD MATERIALS

Old materials from alterations except where described to be reused or handed over, become the property of the Contractor who may allow credit for same where provided for in these Bills of Quantities.

Old materials from the alterations except where described to be reused or handed over, as well as old rubbish, etc. must regularly be carted from the site and not be allowed to accumulate on or around the site.

None of the old materials are to be used for new work except where specifically described as set aside for re-use. Where certain materials or articles from alterations are described as to be "handed over" to the Representative/Agent, such material or articles shall be properly stored by the Contractor, until handing over thereof.

The Contractor shall obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so it shall be deemed that the materials or articles are still in his possession and he will be held liable to the University for the full replacement value thereof which amount will be deducted from any monies due to the Contractor.

EXISTING BUILDINGS

The existing buildings will be in use and occupied during the progress of the contract and the Contractor will be required to carry out the works in such a manner as will least interfere with the occupants and with the minimum disturbance.

Contractors are also to note that due to the buildings being occupied the repairs and renovations works will be required to be executed in a specific order as will be determined by the Representative/Agent in conjunction with the University Authorities

MAKING GOOD DAMAGED WORK

The Contractor shall make good in all existing trades to existing work where damaged or disturbed through the alterations with all necessary new materials to match existing

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Section 2
Building Work
Bill No. 1
Alterations
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PAINTWORK

Where plasterwork on walls, ceilings, etc. are required to be patched or made good, prices are to include for the appropriate priming coat and one undercoat to receive paint finishing coats which are measured elsewhere

REMOVAL OF EXISTING WORK

Breaking up and removing brickwork

1 220mm brickwork m2 16

Taking down and removing roofs, ceilings, etc

2 Corrugated iron roof covering and timber purlins m2 260

3 Tongued and grooved timber suspended floors including skirtings, joists, bearers, etc m2 896

Repairing of existing roofs, etc

4 Scrub down roof paint where corroded, apply anti-rust treatment and seal all leaks in roof m2 90

Taking down and removing ceilings, etc

5 Damaged gypsum plasterboard ceiling panel including cornices, timber bandering, etc m2 1 273

Taking out and removing piping, sanitary fittings, etc including breaking up mass concrete slab approximately 200mm thick, disconnecting piping from fittings and making good floor and wall finishes

Service water closets, replace seats, flushing mechanisms and/or cisterns and leave in good working order No 3

Service lavatory basins, taps and waste pipes No 24

Taking out and removing glass and mirrors

6 Glass from steel windows including cleaning out rebates and preparing for new glass m2 4

NEW WORK TO EXISTING BUILDINGS

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Section 2
Building Work
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Alterations
**King Hintsha TVET College - Teko Campus
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EARTHWORKS

Filling, etc.

1	Imported earth filling supplied by the Contractor and brought onto site, under solid floors, steps, pavings, etc. compacted to 90% modified AASHTO density	m3	178
2	50mm Thick dry, clean, washed riversand layer evenly spread over filling (elsewhere), levelled, watered and rammed to receive waterproof membrane (elsewhere) under solid floors	m2	296

CONCRETE, FORMWORK AND REINFORCEMENT

Mesh reinforced concrete with a coarse aggregate of 19mm and a minimum compressive strength of 25MPa at 28 days

3	In surface beds cast in panels on waterproofing membrane (elsewhere)	m3	44
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FORMWORK

Smooth formwork to

4	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	74
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Movement joints

5	Movement joint not exceeding 300mm high formed of 10mm bitumen impregnated softboard placed vertically in position between concrete surface beds including raking out top section 20mm deep and filling with polyurethane epoxy (shore D hardness > 50)	m	74
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REINFORCEMENT

Mesh reinforcement

6	Mesh reinforcement with mesh reference number 193 laid in surface beds with 300mm wide side and end laps (measured net)	m2	296
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WATERPROOFING

Damp-proofing under floors, etc

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Section 2
Building Work
Bill No. 1
Alterations

**King Hintsha TVET College - Teko Campus
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Colour coded polyethylene sheeting complying with SABS 952, Type C in widest practicable widths with all joints lapped and sealed in accordance with the manufacturer's instructions

1 250 Micron green medium density damp-proof membrane laid loose on top of sand bed (elsewhere) under solid floors with pressure sensitive tape jointing

m2

296

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Section 2
Building Work
Bill No. 1
Alterations

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Building Work

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Alterations

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Section 2

Building Work

Bill No. 1

Alterations

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	<u>BILL No. 2</u>			
	<u>ROOF COVERINGS</u>			
	<u>GENERAL PREAMBLES</u>			
	For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors			
	<u>Galvanised corrugated iron roofing sheets Class Z 275 and accessories</u>			
	NOTE: The Contractor is to submit a certificate signed by the merchant, stating that the galvanized roof covering supplied complies with the required thickness specified.			
1	0,6mm Roof sheeting with pitch not exceeding 25° fixed to steel purlins (elsewhere)	m2	286	
2	Ridge capping	m	26	
3	Hip capping	m	32	
	<u>ROOF AND WALL INSULATION</u>			
	<u>"Sisalation 420" heavy industrial grade aluminium foil based insulation</u>			
4	Insulation laid taut over purlins (at approximately 1700mm centres) and fixed concurrent with roof covering including galvanised steel straining wires	m2	260	
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	Section 2 Building Work Bill No. 2 Roof Coverings King Hintsha TVET College - Teko Campus Refurbishments			

Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p>			
<p><u>BILL No. 3</u></p>			
<p><u>CARPENTRY AND JOINERY</u></p>			
<p><u>GENERAL PREAMBLES</u></p>			
<p>For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors</p>			
<p><u>TIMBER</u></p>			
<p>All softwood to be South African Pine</p>			
<p>Carried to Collection</p>		R	
<p>Section 2 Building Work Bill No. 3 Carpentry and Joinery King Hintsha TVET College - Teko Campus Refurbishments</p>			

DESCRIPTIONS

The term "planted on" shall mean the nailing of one timber member to another

The term "screwed on" shall mean the countersunk screwing of one timber member to another

The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted

The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete

The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted

Shelving, etc. described as screwed to steel must be fixed from underside and prices are to include for countersunk drilling through the steel for screw fixing

Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting

Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.

Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.

Carried to Collection

Section 2
Building Work
Bill No. 3
Carpentry and Joinery
**King Hintsha TVET College - Teko Campus
Refurbishments**

R

Prefabricated metal connector plate timber roof trusses

NOTE:

- a. All the roof trusses to be at average 1177mm centres and constructed for a 15 degrees pitch unless otherwise stated
- b. All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take corrugated roof covering, purlins and fibre cement or gypsum plasterboard ceilings with bracing. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal spiked connectors, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.
- c. Unless otherwise described all rafter feet are to extend 770mm beyond the length of the tie beam, with ends twice splay cut
- d. The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer in accordance with SANS 0243 and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Principal Agent
- e. The tenderer's attention is drawn to the fact that the detail drawings included at the back of these Bills of Quantities only represents the overall size and bearing points of the trusses and not the required design.
- e. Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.
- f. Descriptions of roof trusses shall be deemed to include for design, manufacture, supply, hoisting and fixing in position, trimming ends, notching, etc. and for any temporary bracing.

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Section 2
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1	Double pitched full truss size 10,06m long x 1,479m high in the centre with tie beam 8,53m long	No	28
	<u>Sundry roof timbers</u>		
	<u>Sawn Softwood (Grade 5)</u>		
2	38 x 114mm Wall plate	m	50
3	38 x 228mm Gangboarding (<u>Provisional</u>)	m	30
4	50 x 76mm Purlin including additional timber supports at spliced joints	m	224
5	38 x 114mm Windbracing in lengths exceeding 2,4m and not exceeding 3,9m long	m	27
	<u>Wrought Softwood (Grade 5)</u>		
6	50 x 76mm Purlin	m	77
7	76 x 76mm Splayed eaves purlin	m	59
	<u>Roof sundries</u>		
8	3,2mm Galvanised wire purlin tie	No	191
9	Galvanised mild steel hurricane type fixing clips nailed between rafter and purlin connection (<u>Provisional</u>)	No	235
	<u>Wood preservative</u>		
10	Two coats wood preservative applied hot on wrought exposed roof timbers	m2	232
	<u>Fascias and bargeboards</u>		
	<u>Tempered fibre-cement</u>		
11	15 x 225mm Fascia board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and jointed with and including standard aluminium halfround cover strips at all joints	m	52

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Section 2
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1	15 x 225mm Barge board countersunk screwed to roof timbers (elsewhere) with two brass screws at maximum 1200mm centres and nailed with steel nails into mortar joints at maximum 750mm centres and jointed with and including standard aluminium halfround cover strips at all joints	m	22
<u>SKIRTINGS</u>			
<u>Wrought Meranti</u>			
2	19 x 76mm Skirting nailed to walls with heads of nails punched and filled including 19mm quadrant bead planted on at junction with floor	m	114
<u>DOORS ETC</u>			
<u>Heavy-duty interior quality flush doors finished both sides with hardboard covering suitable for painting, hung to steel frames</u>			
3	40mm Door 813 x 1882mm high	No	6

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Section 2
 Building Work
 Bill No. 3
 Carpentry and Joinery
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Section 2
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Carpentry and Joinery

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Item No	<u>SECTION 2</u>	Quantity	Rate	Amount
	<u>BILL No. 4</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	<u>GENERAL PREAMBLES</u>			
	For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors			
	<u>CEILINGS</u>			
	<u>Proprietary suspended ceilings</u>			
	<u>Plasterboard ceilings</u>			
1	Horizontal ceiling formed of 6,4mm thick x 1200mm wide boards with and including H-type pressed steel jointing strips and 38 x 50mm sawn softwood branderling at 400mm centres in one direction and around edges where required for fixing cornices, securely spiked to roof timbers	m2	1 273	
2	Extra over gypsum plasterboard ceiling for hinged pressed metal trap door size 600 x 600mm including all necessary ironmongery	No	7	
3	75mm Coved cornices	m	686	
	Carried Forward to Summary of Section No. 2			R
	Section 2 Building Work Bill No. 4 Ceilings, Partitions and Access Flooring King Hintsha TVET College - Teko Campus Refurbishments			

Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p>			
<p><u>BILL No. 5</u></p>			
<p><u>METALWORK</u></p>			
<p><u>GENERAL PREAMBLES</u></p>			
<p>For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors</p>			
<p><u>GENERAL PREAMBLES</u></p>			
<p>For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Proprietary products in descriptions</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval of the Agent/Representative</p>			
<p><u>Descriptions</u></p>			
<p>Descriptions of bolts shall be deemed to include nuts and washers</p>			
<p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p>			
<p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p>			
<p><u>DOOR FRAMES, DOORS, WINDOWS, ETC.</u></p>			
<p><u>PRESSED STEEL DOOR FRAMES</u></p>			
<p><u>1,2mm Double rebated pressed steel door frames suitable for half brick walls</u></p>			
<p>Carried to Collection</p>		R	
<p>Section 2 Building Work Bill No. 5 Metalwork King Hintsha TVET College - Teko Campus Refurbishments</p>			

Steel windows

NOTE

Windows shall be provided with chromium plated brass fittings

All horizontal pivot windows to be fitted with cup keeps on pivot for maximum opening of 25°

The given sizes are overall, approximate and in the order of width and height. The detailed drawings and building must be carefully checked for exact sizes before placing orders. Any errors in this respect will be at the Contractor's expense and no claims for any extras in this regard will be entertained

Where so described windows shall be provided with burglar bars to opening and fixed sections, consisting of 20 x 5mm mild steel flat sections to standard NBP2 pattern welded at intersections and to window frame

Bars in front of fixed sections to be bent 75mm away from the glass surface

Standard industrial type steel windows with burglar bars to opening sections only

1	Window type SS43; size 1,303 x 1,445m	No	9
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Carried to Collection

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Section 2
Building Work
Bill No. 5
Metalwork

**King Hintsha TVET College - Teko Campus
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Bill No. 5
Metalwork

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Item No	<u>SECTION 2</u>	Quantity	Rate	Amount
	<u>BILL No. 6</u>			
	<u>PLASTERING</u>			
	<u>GENERAL PREAMBLES</u>			
	For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors			
	<u>CEMENT SCREEDS TO CONCRETE</u>			
	<u>30mm thick</u>			
1	On floors to receive vinyl floor tiles (elsewhere)	m2	888	
	Carried Forward to Summary of Section No. 2		R	
	Section 2 Building Work Bill No. 6 Plastering King Hintsha TVET College - Teko Campus Refurbishments			

Item No	SECTION 2	Quantity	Rate	Amount
	<u>BILL No. 7</u>			
	<u>TILING</u>			
	<u>GENERAL PREAMBLES</u>			
	For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors			
	<u>Wall Tiling</u>			
	<u>198 x 198 x 6mm White glazed ceramic wall tiles fixed with an approved adhesive to plaster (plaster elsewhere) and with jointing compound</u>			
1	To walls	m2	20	
	<u>Floor Tiling</u>			
	<u>Non-slip grooved price group A terrazzo floor tiles of approved dark colour bedded and jointed in (3:1) cement mortar and pointed in coloured cement mortar</u>			
	<u>250 x 250 x 22mm Thick tiles (35mm total thickness)</u>			
2	To floors on concrete (elsewhere) with joints continuous in both directions	m2	468	
3	Skirting 75mm high formed of 250 x 75 x 22mm skirting tiles	m	98	
	Carried Forward to Summary of Section No. 2			R
	Section 2 Building Work Bill No. 7 Tiling King Hintsha TVET College - Teko Campus Refurbishments			

Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p>			
<p><u>BILL No. 8</u></p>			
<p><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></p>			
<p><u>GENERAL PREAMBLES</u></p>			
<p>For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Proprietary products in descriptions</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval of the Agent/Representative</p>			
<p><u>Vitrified clay pipes:</u></p>			
<p>Pipes shall rest on solid ground and, where necessary, pockets of sufficient size shall be cut around joints to enable the jointing to be properly performed or, alternatively, pipes shall be bedded full length on and including unreinforced concrete laid in a semi-dry state immediately before pipes are laid</p>			
<p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p>			
<p><u>uPVC pipes and fittings:</u></p>			
<p>Soil, waste and vent pipes and fittings shall be solvent weld jointed</p>			
<p><u>uPVC pressure pipes and fittings:</u></p>			
<p>Pipes for water supply shall be of the class stated</p>			
<p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p>			
<p>Carried to Collection</p>		R	
<p>Section 2 Building Work Bill No. 8 Plumbing and Drainage (Provisional) King Hintsha TVET College - Teko Campus Refurbishments</p>			

Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Copper pipes:

Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground

Fixing of pipes

Unless specifically otherwise stated, descriptions of pipes shall be deemed to include fixing to walls etc, casting in, building in or suspending not exceeding 1m below suspension level

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing". In the case of pipes with diameters not exceeding 60mm only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained. In the case of pipes with diameters exceeding 60mm all sizes are given and no claim for extra bushes, reducers, etc will be entertained

Wire gratings

Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings

Flush pans

Flush pans shall have straight or side outlets and "P" or "S" traps as necessary

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Section 2
Building Work
Bill No. 8
Plumbing and Drainage (Provisional)
**King Hintsha TVET College - Teko Campus
Refurbishments**

Stainless steelbasins, sinks, wash troughs, urinals, etc.

Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable

Waste unions

Descriptions of waste unions shall be deemed to include rubber or vulcanite plugs and chains fixed to fittings

GUTTERS, DOWNPIPES, ETC.

0,6mm Galvanised sheet iron Class Z 275

1	100 x 125mm Rectangular section eaves gutter with 20mm wide overlapping joints sealed with and including compressible sealing strip and rivetted at 20mm centres	m	274
2	Extra for stopped end	No	16
3	Extra for outlet with nozzle for and jointed to 100mm diameter galvanised sheet iron downpipe including galvanised wire balloon grating	No	32
4	100mm Diameter rainwater downpipe with brackets fixed to brick wall or concrete	m	128
5	Extra for shoe	No	32
6	Extra for eaves offset	No	32

SANITARY FITTINGS

"Franke" or similar approved product

7	Stainless steel wall mounted fabricated double bowl wash trough size 1030mm x 430mm overall, 348mm bowl depth with 40mm outlet holes complete with 38mm waste with plastic plug and fixing brackets	No	10
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TESTING

8	Provide all necessary apparatus, water, etc. for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and the Local Authority, rectify all defective work free of charge and leave in perfect order		Item
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Section 2
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Bill No. 8
Plumbing and Drainage (Provisional)
King Hintsha TVET College - Teko Campus
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Building Work

Bill No. 8

Plumbing and Drainage (Provisional)

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Item No	SECTION 2	Quantity	Rate	Amount
	<u>BILL No. 9</u>			
	<u>GLAZING</u>			
	<u>GENERAL PREAMBLES</u>			
	For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary products in descriptions</u>			
	Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval of the Agent/Representative			
	<u>Glass in steel fixed with putty</u>			
1	4mm Clear float glass in squares exceeding 0,1 and not exceeding 0,5 square metre in area	m2	20	
	<u>4mm Pacific or similar approved obscure glass</u>			
2	Panels exceeding 0,1 and not exceeding 0,5 square metre in area	m2	1	
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	Section 2 Building Work Bill No. 9 Glazing King Hintsha TVET College - Teko Campus Refurbishments			

Item No	Quantity	Rate	Amount
<p><u>SECTION 2</u></p>			
<p><u>BILL No. 10</u></p>			
<p><u>PAINTWORK</u></p>			
<p><u>GENERAL PREAMBLES</u></p>			
<p>For general preambles, refer to 'Model Preambles for Trades 1999' published by the Association of SA Quantity Surveyors</p>			
<p><u>SUPPLEMENTARY PREAMBLES</u></p>			
<p><u>Generally</u></p>			
<p>All work is to be executed in strict accordance with the paint specifications of the manufacturer for the preparation of previously painted surfaces.</p>			
<p>Primer (first) coats may be thinned in accordance with the specifications of the manufacturer to aid the absorption of the paint.</p>			
<p>All surfaces must be sound, clean and have a moisture content of less than 12%</p>			
<p><u>Proprietary products in descriptions</u></p>			
<p>Proprietary products shall be used as specified. Substitute products of similar quality and specification may only be used with prior approval of the Agent/Representative</p>			
<p><u>Previously painted plastered surfaces</u></p>			
<p>Surfaces shall be thoroughly washed down to remove dirt and other contaminants and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler, and sanded smooth</p>			
<p>Carried to Collection</p>		R	
<p>Section 2 Building Work Bill No. 10 Paintwork King Hintsha TVET College - Teko Campus Refurbishments</p>			

Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down to remove dirt and other contaminants and sanded lightly to provide a key for subsequent coats. Blistered or peeling paint shall be completely removed down to bare metal and any rust encountered shall be removed

PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

ON FLOATED PLASTER

Two coats Double Velvet paint

1	On internal painted walls	m2	3 317
2	On external plastered walls	m2	2 789

Prepare, stop and apply one coat alkali resistant pure acrylic filler coat and one full coat washable mat acrylic PVA paint

3	On internal plasterboard ceilings including priming nail heads with one coat zinc chromate primer	m2	2 840
4	On cornices, etc. not exceeding 300mm girth	m	1 090

Prepare, stop and apply one coat alkali resistant primer, one coat universal undercoat and two full coats enamel paint to comply with SABS Specification No. 630 Type 2

5	On internal fibre-cement board ceilings and cornices including priming steel joints and nail heads with one coat zinc phosphate alkyd resin primer	m2	144
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PAINT ON WOOD

Prepare and apply one coat hardboard primer, one coat universal undercoat and two full coats high gloss enamel paint

6	On general surfaces	m2	112
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ON METAL

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Section 2
Building Work
Bill No. 10
Paintwork
**King Hintsha TVET College - Teko Campus
Refurbishments**

Prepare and repair as specified, remove all loose defective paint, dust, grease, salts and contamination, scrub bare substrate patches with cleaner for galvanised iron, rinse, spot priming bare patches with primer for galvanised iron and apply one universal undercoat and two coats non-drip polyurethane enamel paint on existing alkyd-based paint steel surfaces

1	On door frames	m2	86
2	On sashes and frames with burglar bars (both sides measured)	m2	193
3	On eaves gutters and downpipes not exceeding 300mm girth	m	274

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Section 2
 Building Work
 Bill No. 10
 Paintwork
**King Hintsha TVET College - Teko Campus
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Item No	<u>SECTION 2</u>	Quantity	Rate	Amount
	<u>BILL No. 11</u>			
	<u>BUDGETARY ALLOWANCES</u>			
	<u>ELECTRICAL INSTALLATION - KITCHEN/DINING</u>			
1	Allow the Provisional Amount of R300 000.00 (Three Hundred Thousand Rand only) for upgrading electrical power supply to the Kitchen/Dining building be executed by a specialist sub-contractor to be nominated by the Architect	Item		
2	Allow for profit on preceding item if required	Item		
3	Allow for general attendance and making good in all trades	Item		
	<u>SEWER AND DRAINAGE - DOUBLE STOREY HOSTEL</u>			
4	Allow the Provisional Amount of R300 000.00 (Three Hundred Thousand Rand only) for providing a permanent drainage solution to the faulty sewer system as instructed by the Principal Agent	Item		
	<u>WATER SUPPLY - DOUBLE STOREY HOSTEL</u>			
5	Allow the Provisional Amount of R200 000.00 (Two Hundred Thousand Rand only) for upgrading Water Supply to the Double Storey Hostel as instructed by the Principal Agent	Item		
	<u>ABLUTION BLOCK - WORKSHOPS</u>			
6	Allow the Provisional Amount of R550 000.00 (Five Hundred and Fifty Thousand Rand only) for Male and Female Ablution Block to service Workshops as instructed by the Principal Agent	Item		
	<u>STAFF HOUSING</u>			
7	Allow the Provisional Amount of R800 000.00 (Eight Hundred Thousand Rand only) for Refurbishment of 5No. Staff Houses as instructed by the Principal Agent	Item		
	Carried Forward to Summary of Section No. 2		R	
	Section 2 Building Work Bill No. 11 Budgetary Allowances King Hintsha TVET College - Teko Campus Refurbishments			

Section 2

Building Work

SECTION SUMMARY - Building Work

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**King Hintsha TVET College - Teko Campus
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Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	17	
2	Building Work	47	
	Sub-Total		R
	<u>Contingencies</u>		
	Provide the sum of R300 000.00 (Three Hundred Thousand Rand only) for Contingencies to be expended as directed by the Principal Agent and deducted wholly or in part if not required		SUM
	Sub-Total		R
	<u>Value Added Tax (VAT)</u>		
	<u>Add VAT 14%</u>		R
	Carried to Form of Offer and Acceptance		R
	King Hintsha TVET College - Teko Campus Refurbishments		