

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	The tender is based on JBCC Edition 6.2 of May 2018			
	<u>Definitions (A1)</u>			
1	<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		
	<u>Objective and preparations (A2 - A14)</u>			
2	<p>Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....</p>	Item		
3	<p>Clause 3.0 - Documents</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Clause 4.0 - Design responsibility F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 1 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
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	Brought Forward		R
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
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 specifications [7.1] F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Public Liability insurance to be affected by the contractor for an amount of R 1 000 000.00 F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Works insurance to be affected by the Contractor for the sum of contract amount + 10% F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 1 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
14	Clause 14.0 - Security F:..... V:..... T:.....	Item		
	<u>Execution (A15 - A23)</u>			
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
16	Clause 16.0 - Site and access The contractor must consult with the principle agent regarding an site access limitations / restrictions. <i>Reference [16.1]</i> The contractor must consult the principle agent regarding site occupation during the cause of construction. <i>Reference [16.6]</i> The contractor must consult the principle agent regarding the following: <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		
	Carried Forward		R	
	Section No. 1 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
18	<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 [18.1].</p> <p>F: V:.....T:.....</p>	Item		
19	<p>Clause 19.0 - Temporary works and plant</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
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**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Completion (A24 - A30)</u>		
24	Clause 24.0 - Practical completion Practical completion date is 3 Months after contractual commencement date 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 F:..... V:..... T:.....	Item
29	Clause 29.0 - Revision of date for practical completion Practical completion date is three months after contractual commencement date. The removal and replacement of materials and/or workmanship which do not conform to 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 Penalty amount is 0.05% of the contract amount per calender day. F:..... V:..... T:.....	Item
Carried Forward		R
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**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
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	Brought Forward		R
	<u>Payment (A31 - A35)</u>		
31	Clause 31.0 - Interim payment Materials and goods stored off site shall not be included in the amount authorised for payment? [31.6.5] F:..... V:..... T:.....	Item	
32	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 [32.13] 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 or profit shall not be entertained [32.2] F:..... V:..... T:.....	Item	
33	Clause 33.0 - Recovery of expense and loss F:..... V:..... T:.....	Item	
34	Clause 34.0 - Final account and final payment F:..... V:..... T:.....	Item	
35	Clause 35.0 - Payment to other parties F:..... V:..... T:.....	Item	
	<u>Termination (A36 - A39)</u>		
36	Clause 36.0 - Termination by employer - contractor's default F:..... V:..... T:.....	Item	
	Carried Forward		R
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**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
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	Brought Forward			R
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 contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
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REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

Carried Forward

R

Section No. 1
Bill No. 1
PRELIMINARIES
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	Brought Forward		R
	<u>SECTION B - PRELIMINARIES</u>		
	<u>Definitions and interpretation (B1)</u>		
43	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	
	<u>Documents (B2)</u>		
44	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 F:..... V:..... T:.....	Item	
46	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item	
	<u>Previous work and adjoining properties (B3)</u>		
47	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
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	Brought Forward		R
48	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
49	Clause 3.3 - Inspection of adjoining propertiesF:..... V:..... T:.....	Item	
	<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 drawingsF:..... V:..... T:.....	Item	
53	Clause 4.4 - Compliance with manufacturer's instructionsF:..... 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 - WaterF:..... V:..... T:.....	Item	
56	Clause 6.2 - ElectricityF:..... V:..... T:.....	Item	
57	Clause 6.3 - Telecommunication facilitiesF:..... V:..... T:.....	Item	
58	Clause 6.4 - Ablution facilitiesF:..... V:..... T:.....	Item	
	Carried Forward		R
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**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
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Brought Forward			R
<u>Prime cost amounts (B7)</u>			
59	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
<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 F:..... V:..... T:	Item	
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**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
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	Brought Forward		R
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
68	Clause 9.8 - VerminF:..... V:..... T:.....	Item	
69	Clause 9.9 - Overhand workF:..... V:..... T:.....	Item	
<u>Schedule of variables (B10)</u>			
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]			
10.4 - Previous work - defects [clause 3.2]			
10.5 - Inspection of adjoining properties [clause 3.3]			
10.6 - Water [clause 7.2]			
Option A (by contractor) yes			
Option B (by employer - free of charge) no			
Option C (by employer - metered) no			
Carried Forward			R
Section No. 1 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
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	Brought Forward		R
10.7 - Electricity [clause 7.3]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer - free of charge)	<i>no</i>		
Option C (by employer - metered)	<i>no</i>		
10.8 - Telecommunications [clause 7.4]			
Telephone	<i>yes</i>		
Facsimile	<i>no</i>		
E-mail	<i>yes</i>		
10.9 - Ablution facilities [clause 7.5]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer)	<i>no</i>		
10.10 - Protection of the works [clause 9.1]			
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]			
Protection/isolation is required	<i>no</i>		
10.12 - Disturbance [clause 9.5]			
10.13 - Environmental disturbance [clause 9.6]			
	Carried Forward		R
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REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

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**

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

Item

71 **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 **final 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

Carried Forward

R

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PRELIMINARIES
Zethu Consulting Services

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
72	<p>Co-operation of contractor for cost management</p> <p>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</p> <p>F:.....V:.....T:.....</p>	Item	
73	<p>Propping of floors below</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item	
74	<p>Testing of windows for watertightness</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 1 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>		

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

Carried Forward to Summary of Section No. 1

R

Section No. 1
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PRELIMINARIES
Zethu Consulting Services

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades"</u>			
	<u>Stripping work to existing buildings:</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, frames etc from brickwork</u>			
1	Timber single door from steel door frame	No	3	
	<u>Taking down and removing floors, panelling, ceiling, partition, etc</u>			
2	Vinyl tiles/sheeting including skirting	m2	83	
3	Gypsum plasterboard ceiling including cornices, timber bandering, etc	m2	83	
	<u>Hacking up/off and removing granolithic, screed, plaster etc from concrete or brickwork and preparing surfaces for new finish</u>			
4	Internal paint from walls	m2	160	
	<u>Taking out and removing ironmongery</u>			
5	Remove existing writing board	No	1	
	<u>Preparatory work to existing surfaces</u>			
6	Carefully disconnect electrical installation and electrical fittings under the supervision of qualified electrician and in consultation with Electrical Engineer		Item	
	Carried Forward			R
	Section No. 1 Bill No. 2 ALTERATIONS Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

	Brought Forward		R	
7	Carefully disconnect mechanical installation and mechanical fittings under the supervision of qualified mechanical and in consultation with Mechanical Engineer	Item		
	Carried Forward to Summary of Section No. 1		R	
	Section No. 1 Bill No. 2 ALTERATIONS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>Fire rated solid timber door</u>			
	<u>Class B fire resistant door with rebated meeting stiles and commercial veneer both sides.</u>			
1	Door size 900 x 2064mm hung on door frames	No	2	
	<u>Class B fire resistant door one and half leaves bigger door leaf to be 900 mm wide with rebated meeting stiles and commercial veneer both sides</u>			
2	Door size 1310 x 2064mm hung on door frames	No	1	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 3			
	CARPENTRY AND JOINERY			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
	<u>Ceiling tiles - Vinyl clad-insulated 1200 x 600 x 15mm thick Pelican econocaustpinhole mineral wool ceiling with square edges and white painted finish, suspended on exposed pre-painted aluminium capped metal tees</u>			
1	Ceiling tiles	m2	83	
2	50m shadow line around perimeters of walls	m	87	
	<u>INSULATION</u>			
	<u>Non-combustible lightweight fibreglass insulation blanket:</u>			
3	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	83	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 4			
	CEILINGS, PARTITIONS & ACCESS FLOORING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>HINGES, BOLTS, ETC</u>			
1	2x19SCKA knob cylinder profile KA SC	No	3	
2	Code SS5305-05SS Escutcheon on rose profile (pairs)	No	3	
	<u>Pull Handles</u>			
3	22mm Diameter Tubular SS Dove pull handle on 152 x 304mm back plate blank	No	6	
4	152x304mm Stainless steel push plate blank	No	6	
	<u>Locks</u>			
5	Euro cylinder deadlock - stainless steel	No	3	
	<u>DOOR CLOSERS</u>			
	<u>"Assa Abloy" or similar approved</u>			
6	CAM action closer EN1-4 SIL	No	3	
7	Angle mounting plate for guide rail for Assa Abloy Door Closers	No	3	
	<u>Kick plates</u>			
8	150mm high x 3mm Anodised finish, counter sunk holed for and screwed to door with chromium plated dome headed screws	No	6	
	<u>Door Stop</u>			
9	Satin SS floor door stop	No	3	
	Carried Forward			R
	Section No. 1 Bill No. 5 IRONMONGERY Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

		Brought Forward		R
		<u>SIGNAGE</u>		
		<u>2mm "Dibond" or similar approved composite panel with aluminium finish on side and self adhesive vinyl sign on the other side, fixed with double side tape, silicone or plugged</u>		
10	152 x 304mm High DPC fire extinguisher downward pointing	No	4	
11	152 x 304mm High fire hose reel downward pointing arrow sign	No	1	
12	152 x 304mm High DB board downward pointing arrow sign	No	1	
13	304 x 152mm High running man and direction pointing arrow sign	No	2	
14	304 x 152mm High "Exit" sign	No	8	
		<u>"Anodised" aluminium sign plate with room name on it</u>		
15	Study room	No	3	
16	Storeroom	No	1	
17	Entrance	No	1	
		<u>VERTICAL BLINDS (PROVISIONAL)</u>		
		<u>"Dickson" or other equal and approved free hanging vertical louvre drape system for soffit fixing, complete with anodised aluminium rails, end caps, runners, 127mm wide non fade fabric vanes, controls, etc and fixing to brickwork</u>		
18	On windows	m	15	
		Carried Forward		R
Section No. 1				
Bill No. 5				
IRONMONGERY				
Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward			R
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION, SCREENS, ETC.</u>			
	<u>Carpet pinning boards in aluminium frame with round plastic corners, pens tray and fixing component all fixed according to manufacturer's instruction</u>			
19	Pinning board size 2400 x 1200mm high plugged	No	1	
	<u>White writing board to Architect specifications</u>			
20	Writing board size 4500 x 1200mm high plugged	No	2	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1 Bill No. 5 IRONMONGERY Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>Existing door frames</u>			
	<u>Make good to existing door frame and prepare for paint</u>			
1	Frame for door 1 000 x 2064mm high	No	3	
	<u>New door frames</u>			
	<u>1,2mm Thick mild steel single rebate door frame 2064mm high, complete with 1.5mm thick pair hinges and lock jamn, and tie bar unit</u>			
2	Frame for door 900 x 2064mm high	No	1	
3	Frame for door 1310x 2064mm high	No	1	
	<u>EXISTING WINDOWS</u>			
4	Allow for fixing and servicing existing windows, frames, and replacing broken window panes	m2	18	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 6			
	METALWORK			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>PLASTERING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SCREEDS</u>			
	<u>Existing screeds on concrete</u>			
1	50mm thick screed in isolated positions	m2	24	
2	50mm Screed to floors	m2	83	
	<u>INTERNAL PLASTER</u>			
	<u>Two coat plaster on brickwork</u>			
3	On existing plastered walls in isolated positions in matching existing	m2	160	
4	Ditto but on narrow widths not exceeding 300mm wide	m	74	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 7			
	PLASTERING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>TILING AND FLOOR COVERINGS</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>FLOOR TILING</u>			
	<u>Superflex sheeting Charcoal, code: MS113</u> <u>pattern as indicated</u>			
1	On floors	m2	80	
	<u>Superflex sheeting prassian blue code: MS174</u>			
2	On screeded floors	m2	10	
	<u>Star Gripper Plus</u> <u>Product code: 5901, by Matcomarketing, or</u> <u>approved equal matting laid in 15mm deep</u> <u>recessed opening in screed, edged with</u> <u>aluminium edging strip</u>			
3	15mm Thick 1600 x 1000mm mat	No	1	
	<u>Coved vinyl</u>			
4	150mm Cove vinyl	m	30	
	<u>Edge trims</u>			
5	Aluminium edge trim 12mm x 12mm	m	87	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 8			
	TILING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>PAINTWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PAINTWORK, ETC TO EXISTING WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat universal undercoat and two coats "Plascon Double Velvet" paint on</u>			
1	Internal walls	m2	160	
2	To narrow widths not exceeding 300mm wide	m	74	
	<u>CEILING</u>			
	<u>One coat primer and two coats "Polvin Super Acrylic PVA" paint (EPL) on</u>			
3	On shadow line	m	87	
	<u>ON DOORS</u>			
	<u>Sand & stop where necessary. Prepare and apply undercoat and 2 coats Dulux eggshell enamel paint. Colour-to Architects specifications</u>			
4	On doors	m2	33	
	<u>ON METAL</u>			
	<u>Factory coated red oxide with phosphate primer for semi gloss enamel paint Dulx French clay 611-4</u>			
5	On windows frames	m2	54	
6	On door frames	m2	32	
	Carried Forward to Summary of Section No. 1			R
	Section No. 1			
	Bill No. 9			
	PAINTWORK			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: All tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the JBCC Preliminaries			
	NOTE: All Provisional and Prime Cost Amounts are NET i.e: there is no cash discount			
	NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill			
	<u>NOTE: For All provisional sum amounts, contractor will provide three quotation from suppliers for adjudication and evaluation by the principal agent.</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u>			
	<u>Lab Seating and desks</u>			
1	Provide the sum of R43 700.00 (Forty Three Thousand and Seven Hundred Rand) for seating and desks installed complete	Item		43,700.00
2	Profit	Item		
3	Attendance	Item		
	Carried Forward		R	
	Section No. 1 Bill No. 10 PROVISIONAL SUM Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Electrical Installation</u>		
4	Provide the sum of R150 000.00 (One Hundred and Fifty Thousand Rand) for electrical works installed complete	Item	150,000.00
5	Profit	Item	
6	Attendance	Item	
	<u>Mechanical Installation</u>		
7	Provide the sum of R85,000.00 (Eighty Five Thousand Rand) for mechanical works installed complete	Item	85,000.00
8	Profit	Item	
9	Attendance	Item	
	Carried Forward to Summary of Section No. 1		R
	Section No. 1		
	Bill No. 10		
	PROVISIONAL SUM		
	Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Bill No	<u>SECTION SUMMARY - STUDY ROOM C108</u>	Page No	Amount
1	PRELIMINARIES	16	
2	ALTERATIONS	18	
3	CARPENTRY AND JOINERY	19	
4	CEILINGS, PARTITIONS & ACCESS FLOORING	20	
5	IRONMONGERY	23	
6	METALWORK	24	
7	PLASTERING	25	
8	TILING	26	
9	PAINTWORK	27	
10	PROVISIONAL SUM	29	
	Carried to Final Summary		R
	Section No. 1 Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	The tender is based on JBCC Edition 6.2 of May 2018			
	<u>Definitions (A1)</u>			
1	<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		
	<u>Objective and preparations (A2 - A14)</u>			
2	<p>Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....</p>	Item		
3	<p>Clause 3.0 - Documents</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Clause 4.0 - Design responsibility F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
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 specifications [7.1] F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Public Liability insurance to be affected by the contractor for an amount of R 1 000 000.00 F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Works insurance to be affected by the Contractor for the sum of contract amount + 10% F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
14	Clause 14.0 - Security F:..... V:..... T:.....	Item		
	<u>Execution (A15 - A23)</u>			
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
16	Clause 16.0 - Site and access The contractor must consult with the principle agent regarding an site access limitations / restrictions. <i>Reference [16.1]</i> The contractor must consult the principle agent regarding site occupation during the cause of construction. <i>Reference [16.6]</i> The contractor must consult the principle agent regarding the following: <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		
	Carried Forward		R	
	Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward			R
18	<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 [18.1].</p> <p>F: V:.....T:.....</p>	Item		
19	<p>Clause 19.0 - Temporary works and plant</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward			R
	<p>Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Completion (A24 - A30)</u>		
24	Clause 24.0 - Practical completion Practical completion date is 3 Months after contractual commencement date 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 F:..... V:..... T:.....	Item
29	Clause 29.0 - Revision of date for practical completion Practical completion date is three months after contractual commencement date. The removal and replacement of materials and/or workmanship which do not conform to 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 Penalty amount is 0.05% of the contract amount per calender day. F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Payment (A31 - A35)</u>		
31	<p>Clause 31.0 - Interim payment</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 [32.13]</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 or profit shall not be entertained [32.2]</p> <p>F:..... V:..... T:.....</p>	Item	
33	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F:..... V:..... T:.....</p>	Item	
34	<p>Clause 34.0 - Final account and final payment</p> <p>F:..... V:..... T:.....</p>	Item	
35	<p>Clause 35.0 - Payment to other parties</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Termination (A36 - A39)</u>		
36	<p>Clause 36.0 - Termination by employer - contractor's default</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
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 contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

Carried Forward

R

Section No. 2
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

Brought Forward		R
<u>SECTION B - PRELIMINARIES</u>		
<u>Definitions and interpretation (B1)</u>		
43	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item
<u>Documents (B2)</u>		
44	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 F:..... V:..... T:.....	Item
46	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item
<u>Previous work and adjoining properties (B3)</u>		
47	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
48	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
49	Clause 3.3 - Inspection of adjoining propertiesF:..... V:..... T:.....	Item	
	<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 drawingsF:..... V:..... T:.....	Item	
53	Clause 4.4 - Compliance with manufacturer's instructionsF:..... 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 - WaterF:..... V:..... T:.....	Item	
56	Clause 6.2 - ElectricityF:..... V:..... T:.....	Item	
57	Clause 6.3 - Telecommunication facilitiesF:..... V:..... T:.....	Item	
58	Clause 6.4 - Ablution facilitiesF:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Prime cost amounts (B7)</u>		
59	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
	<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 F:..... V:..... T:	Item	
	Carried Forward		R
	Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
68	Clause 9.8 - VerminF:..... V:..... T:.....	Item	
69	Clause 9.9 - Overhand workF:..... V:..... T:.....	Item	
<u>Schedule of variables (B10)</u>			
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]			
10.4 - Previous work - defects [clause 3.2]			
10.5 - Inspection of adjoining properties [clause 3.3]			
10.6 - Water [clause 7.2]			
Option A (by contractor) yes			
Option B (by employer - free of charge) no			
Option C (by employer - metered) no			
Carried Forward			R
Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
10.7 - Electricity [clause 7.3]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer - free of charge)	<i>no</i>		
Option C (by employer - metered)	<i>no</i>		
10.8 - Telecommunications [clause 7.4]			
Telephone	<i>yes</i>		
Facsimile	<i>no</i>		
E-mail	<i>yes</i>		
10.9 - Ablution facilities [clause 7.5]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer)	<i>no</i>		
10.10 - Protection of the works [clause 9.1]			
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]			
Protection/isolation is required	<i>no</i>		
10.12 - Disturbance [clause 9.5]			
10.13 - Environmental disturbance [clause 9.6]			
	Carried Forward		R
Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

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**

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

Item

71 **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 **final 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

Carried Forward

R

Section No. 2
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
72	<p>Co-operation of contractor for cost management</p> <p>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</p> <p>F:.....V:.....T:.....</p>	Item		
73	<p>Propping of floors below</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
74	<p>Testing of windows for watertightness</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 2 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

Carried Forward to Summary of Section No. 2

R

Section No. 2
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades"</u>			
	<u>Stripping work to existing buildings:</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, frames etc from brickwork</u>			
1	Timber double door from steel frame	No	1	
2	Timber single door from steel frame	No	8	
	<u>Taking down and removing floors, panelling, ceiling, partition, etc</u>			
3	Vinyl tiles/sheeting including skirting	m2	175	
4	Gypsum plasterboard ceiling including cornices, timber bandering, etc	m2	53	
	<u>Hacking up/off and removing granolithic, screed, plaster etc from concrete or brickwork and preparing surfaces for new finish</u>			
5	Internal paint from walls	m2	262	
	<u>Taking out and removing ironmongery</u>			
6	Remove white board and make good surface to receive new board	No	1	
	Carried Forward			R
	Section No. 2 Bill No. 2 ALTERATIONS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
	<u>Preparatory work to existing surfaces</u>			
7	Carefully disconnect electrical installation and electrical fittings under the supervision of qualified electrician and in consultation with Electrical Engineer	Item		
8	Carefully disconnect mechanical installation and mechanical fittings under the supervision of qualified mechanical and in consultation with Mechanical Engineer	Item		
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2 Bill No. 2 ALTERATIONS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>MASONRY (PROVISIONAL)</u>			
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	One brick walls	m2	4	
	<u>Brickwork reinforcement</u>			
2	150mm Wide reinforcement built in horizontally	m	34	
	<u>Prestressed fabricated lintels</u>			
3	110 x 75mm Lintels in lengths not exceeding 3m	m	33	
	<u>Sundries</u>			
4	Toothing and bonding new brickwork into existing brickwork,	m	11	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2 Bill No. 3 MASONRY Zethu Consulting Services			

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>Fire rated solid timber door</u> <u>Bitcon industries Class B fire resistant door</u> <u>and overall size 1 500 x 2 100mm high</u> <u>comprising of 1 350 x 2 032mm high double</u> <u>door in two equal leaves with rebated meeting</u> <u>stiles and commercial veneer both sides</u>			
1	Door size 1500x 2064mm hung on door frames	No	1	
2	Frame for door 1 000 x 2 064mm hung on door frames	No	8	
	Carried Forward to Summary of Section No. 2		R	
	Section No. 2			
	Bill No. 4			
	CARPENTRY AND JOINERY			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
	<u>Ceiling tiles - Vinyl clad-insulated 1200 x 600 x 15mm thick Pelican econocaustpinhole mineral wool ceiling with square edges and white painted finish, suspended on exposed pre-painted aluminium capped metal tees</u>			
1	Ceiling tiles	m2	53	
2	50m shadow line around perimeters of walls	m	28	
	<u>INSULATION</u>			
	<u>Non-combustible lightweight fibreglass insulation blanket:</u>			
3	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	53	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 5			
	CEILINGS, PARTITIONS & ACCESS FLOORING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>HINGES, BOLTS, ETC</u>			
1	2x19SCKA knob cylinder profile KA SC	No	9	
2	Code SS5305-05SS Escutcheon on rose profile (pairs)	No	9	
	<u>Pull Handles</u>			
3	22mm Diameter Tubular SS Dove pull handle on 152 x 304mm back plate blank	No	9	
4	152x304mm Stainless steel push plate blank	No	9	
	<u>Locks</u>			
5	Euro cylinder deadlock - stainless steel	No	9	
	<u>DOOR CLOSERS</u>			
	<u>"Assa Abloy" or similar approved</u>			
6	CAM action closer EN1-4 SIL	No	9	
7	Angle mounting plate for guide rail for Assa Abloy Door Closers	No	9	
	<u>Kick plates</u>			
8	150mm high x 3mm Anodised finish, counter sunk holed for and screwed to door with chromium plated dome headed screws	No	4	
	<u>Door Stop</u>			
9	Satin SS floor door stop	No	9	
	Carried Forward			R
	Section No. 2 Bill No. 6 IRONMONGERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

		Brought Forward		
				R
	<u>SIGNAGE</u>			
	<u>2mm "Dibond" or similar approved composite panel with aluminium finish on side and self adhesive vinyl sign on the other side, fixed with double side tape, silicone or plugged</u>			
10	152 x 304mm High DPC fire extinguisher downward pointing	No	4	
11	152 x 304mm High fire hose reel downward pointing arrow sign	No	1	
12	152 x 304mm High DB board downward pointing arrow sign	No	1	
13	304 x 152mm High running man and direction pointing arrow sign	No	2	
14	304 x 152mm High "Exit" sign	No	3	
	<u>"Anodised" aluminium sign plate with room name on it</u>			
15	Laboratory	No	3	
16	Weighing room	No	1	
17	Prep room	No	2	
18	Storeroom	No	1	
19	Office	No	1	
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION, SCREENS, ETC.</u>			
	<u>White writing board to Architect specifications</u>			
20	Writing board size 4500 x 1200mm high plugged	No	1	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 6			
	IRONMONGERY			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Thick mild steel single rebate door frame 2032mm high, complete with 1.5mm thick pair hinges and lock jamb, and tie bar unit</u>			
	<u>Existing door frames</u>			
	<u>Make good to existing door frame and prepare for paint</u>			
1	Frame for door 1300 x 2064mm high	No	1	
2	Frame for door size 900 x 2064mm high	No	8	
	<u>New door frames</u>			
3	Frame for door 1310x 2064mm high	No	1	
4	Frame for door 900 x 2 064mm high	No	2	
	<u>EXISTING WINDOWS</u>			
5	Allow for fixing and servicing existing windows, frames, and replacing broken window panes	m2	54	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 7			
	METALWORK			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>PLASTERING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SCREEDS</u>			
	<u>Existing screeds on concrete</u>			
1	50mm thick screed in isolated positions	m2	53	
2	50mm Screed to floors	m2	175	
	<u>INTERNAL PLASTER</u>			
	<u>Two coat plaster on brickwork</u>			
3	On new brick wall	m2	4	
4	On existing plastered walls in isolated positions in matching existing	m2	262	
5	Ditto but on narrow widths not exceeding 300mm wide	m	48	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 8			
	PLASTERING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>TILING AND FLOOR COVERINGS</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>FLOOR TILING</u>			
	<u>Superflex sheeting Charcoal, code: MS113</u> <u>pattern as indicated</u>			
1	On floors	m2	175	
	<u>Superflex sheeting prassian blue code: MS174</u>			
2	On screeded floors	m2	27	
	<u>Coved vinyl</u>			
3	150mm Coved vinyl	m	68	
	<u>Star Gripper Plus</u> <u>Product code: 5901, by Matcomarketing, or</u> <u>approved equal matting laid in 15mm deep</u> <u>recessed opening in screed, edged with</u> <u>aluminium edging strip</u>			
4	15mm Thick 1600 x 1000mm mat	No	1	
	<u>Edge trims</u>			
5	Aluminium edge trim 12mm x 12mm	m	92	
	<u>Granite tops</u>			
6	Existing concrete slab to be covered with rubber mat under lay and granite top	m	10	
	Carried Forward to Summary of Section No. 2			R
	Section No. 2			
	Bill No. 9			
	TILING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PAINTWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PAINTWORK, ETC TO EXISTING WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat universal undercoat and two coats "Plascon Double Velvet" paint on</u>			
1	Internal walls	m2	262	
2	On new walls	m2	4	
3	To narrow widths not exceeding 300mm wide	m	48	
	<u>CEILING</u>			
	<u>One coat primer and two coats "Polvin Super Acrylic PVA" paint (EPL) on</u>			
4	On shadow line	m	53	
	<u>ON DOORS</u>			
	<u>Sand & stop where necessary. Prepare and apply undercoat and 2 coats Dulux eggshell enamel paint. Colour-to Architects specifications</u>			
5	On doors	m2	38	
	<u>ON METAL</u>			
	<u>Factory coated red oxide with phosphate primer for semi gloss enamel paint Dulx French clay 6I1-4</u>			
6	On windows frames	m2	54	
	Carried Forward			R
	Section No. 2 Bill No. 10 PAINTWORK Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

		Brought Forward			R
7	On door frames	m2	28		
Carried Forward to Summary of Section No. 2					R
Section No. 2					
Bill No. 10					
PAINTWORK					
Zethu Consulting Services					

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: All tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the JBCC Preliminaries			
	NOTE: All Provisional and Prime Cost Amounts are NET i.e: there is no cash discount			
	NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill			
	<u>NOTE: For All provisional sum amounts, contractor will provide three quotation from suppliers for adjudication and evaluation by the principal agent.</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u>			
	<u>Lab Seating and desks</u>			
1	Provide the sum of R43 700.00 (Forty Three Thousand Seven Hundred Rand) for seating and desks installed complete	Item		43,700.00
2	Profit	Item		
3	Attendance	Item		
	Carried Forward		R	
	Section No. 2 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Equipments</u>		
4	Provide the sum of R507 000.00 (Five Hundred and Seven Five Thousand Rand) for stripping and removing existing equipments and replacing with the new equipments installed complete	507,000.00
5	Profit	
6	Attendance	
<u>Electrical Installation</u>		
7	Provide the sum of R150 000.00 (One Hundred ad Fifty Thousand Rand) for electrical works installed complete	150,000.00
8	Profit	
9	Attendance	
<u>Mechanical Installation</u>		
10	Provide the sum of R50,000.00 (Fifty Thousand Rand) for mechanical works installed complete	50,000.00
11	Profit	
12	Attendance	
<u>Gas bank,Bottles and Pipes</u>		
13	Provide the sum of R25 000,00 (Twenty Five Thousand Rands only) for gasbanks, bottles and pipes installed complete	25,000.00
14	Profit	
15	Attendance	
<u>Water supply</u>		
16	Allow the sum of R24,000.00 (Twenty Four Thousand Rands only) for water supply installed complete	24,000.00
Carried Forward		R
Section No. 2 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services		

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

	Brought Forward		R
17	Profit	Item	
18	Attendance	Item	
Carried Forward to Summary of Section No. 2			R
Section No. 2 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

SECTION SUMMARY - LABORATORY C210

Bill No		Page No	Amount
1	PRELIMINARIES	46	
2	ALTERATIONS	48	
3	MASONRY	49	
4	CARPENTRY AND JOINERY	50	
5	CEILINGS, PARTITIONS & ACCESS FLOORING	51	
6	IRONMONGERY	53	
7	METALWORK	54	
8	PLASTERING	55	
9	TILING	56	
10	PAINTWORK	58	
11	PROVISIONAL SUMS	61	
	Carried to Final Summary		R
	Section No. 2 Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	The tender is based on JBCC Edition 6.2 of May 2018			
	<u>Definitions (A1)</u>			
1	<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		
	<u>Objective and preparations (A2 - A14)</u>			
2	<p>Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....</p>	Item		
3	<p>Clause 3.0 - Documents</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Clause 4.0 - Design responsibility F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
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 specifications [7.1] F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Public Liability insurance to be affected by the contractor for an amount of R 1 000 000.00 F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Works insurance to be affected by the Contractor for the sum of contract amount + 10% F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
14	Clause 14.0 - Security F:..... V:..... T:.....	Item		
	<u>Execution (A15 - A23)</u>			
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
16	Clause 16.0 - Site and access The contractor must consult with the principle agent regarding an site access limitations / restrictions. <i>Reference [16.1]</i> The contractor must consult the principle agent regarding site occupation during the cause of construction. <i>Reference [16.6]</i> The contractor must consult the principle agent regarding the following: <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		
	Carried Forward		R	
	Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward			R
18	<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 [18.1].</p> <p>F: V:.....T:.....</p>	Item		
19	<p>Clause 19.0 - Temporary works and plant</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward			R
	<p>Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward			R
<u>Completion (A24 - A30)</u>			
24	<p>Clause 24.0 - Practical completion Practical completion date is 3 Months after contractual commencement date F:..... V:..... T:.....</p>	Item	
25	<p>Clause 25.0 - Works completion F:..... V:..... T:.....</p>	Item	
26	<p>Clause 26.0 - Final completion F:..... V:..... T:.....</p>	Item	
27	<p>Clause 27.0 - Latent defects liability period F:..... V:..... T:.....</p>	Item	
28	<p>Clause 28.0 - Sectional completion F:..... V:..... T:.....</p>	Item	
29	<p>Clause 29.0 - Revision of date for practical completion Practical completion date is three months after contractual commencement date.</p> <p>The removal and replacement of materials and/or workmanship which do not conform to 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)</p> <p>F:..... V:..... T:.....</p>	Item	
30	<p>Clause 30.0 - Penalty for late or non-completion Penalty amount is 0.05% of the contract amount per calender day. F:..... V:..... T:.....</p>	Item	
Carried Forward			R
<p>Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Payment (A31 - A35)</u>		
31	<p>Clause 31.0 - Interim payment</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 [32.13]</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 or profit shall not be entertained [32.2]</p> <p>F:..... V:..... T:.....</p>	Item	
33	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F:..... V:..... T:.....</p>	Item	
34	<p>Clause 34.0 - Final account and final payment</p> <p>F:..... V:..... T:.....</p>	Item	
35	<p>Clause 35.0 - Payment to other parties</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Termination (A36 - A39)</u>		
36	<p>Clause 36.0 - Termination by employer - contractor's default</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
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 contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

Carried Forward

R

Section No. 3
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

Brought Forward		R
<u>SECTION B - PRELIMINARIES</u>		
<u>Definitions and interpretation (B1)</u>		
43	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item
<u>Documents (B2)</u>		
44	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 F:..... V:..... T:.....	Item
46	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item
<u>Previous work and adjoining properties (B3)</u>		
47	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
48	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
49	Clause 3.3 - Inspection of adjoining propertiesF:..... V:..... T:.....	Item	
	<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 drawingsF:..... V:..... T:.....	Item	
53	Clause 4.4 - Compliance with manufacturer's instructionsF:..... 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 - WaterF:..... V:..... T:.....	Item	
56	Clause 6.2 - ElectricityF:..... V:..... T:.....	Item	
57	Clause 6.3 - Telecommunication facilitiesF:..... V:..... T:.....	Item	
58	Clause 6.4 - Ablution facilitiesF:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward			R
<u>Prime cost amounts (B7)</u>			
59	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
<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 F:..... V:..... T:	Item	
Carried Forward			R
Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
67	<p>Clause 9.7 - Works cleaning and clearing</p> <p>F:..... V:..... T:.....</p>	Item	
68	<p>Clause 9.8 - VerminF:..... V:..... T:.....</p>	Item	
69	<p>Clause 9.9 - Overhand workF:..... V:..... T:.....</p>	Item	
<u>Schedule of variables (B10)</u>			
<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 [clause 2.2] The quantities are provisional</p>	Yes	
	<p>10.2 - Availability of construction documentation [clause 2.3] Construction documentation is complete</p>	Yes	
	10.3 - Previous work - dimensional accuracy [clause 3.1]		
	10.4 - Previous work - defects [clause 3.2]		
	10.5 - Inspection of adjoining properties [clause 3.3]		
	10.6 - Water [clause 7.2]		
	Option A (by contractor)	yes	
	Option B (by employer - free of charge)	no	
	Option C (by employer - metered)	no	
Carried Forward			R
<p>Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
10.7 - Electricity [clause 7.3]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer - free of charge)	<i>no</i>		
Option C (by employer - metered)	<i>no</i>		
10.8 - Telecommunications [clause 7.4]			
Telephone	<i>yes</i>		
Facsimile	<i>no</i>		
E-mail	<i>yes</i>		
10.9 - Ablution facilities [clause 7.5]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer)	<i>no</i>		
10.10 - Protection of the works [clause 9.1]			
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]			
Protection/isolation is required	<i>no</i>		
10.12 - Disturbance [clause 9.5]			
10.13 - Environmental disturbance [clause 9.6]			
	Carried Forward		R
Section No. 3			
Bill No. 1			
PRELIMINARIES			
Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

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**

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

Item

71 **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 **final 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

Carried Forward

R

Section No. 3
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
72	<p>Co-operation of contractor for cost management</p> <p>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</p> <p>F:.....V:.....T:.....</p>	Item		
73	<p>Propping of floors below</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
74	<p>Testing of windows for watertightness</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 3 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

Carried Forward to Summary of Section No. 3

R

Section No. 3
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades"</u>			
	<u>Stripping work to existing buildings:</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, frames etc from brickwork</u>			
1	Timber double door from steel frame	No	2	
2	Timber single door from steel frame	No	3	
	<u>Taking down and removing floors, panelling, ceiling, partition, etc</u>			
3	Vinyl tiles/sheeting including skirting	m2	148	
4	Gypsum plasterboard ceiling including cornices, timber bandering, etc	m2	44	
	<u>Hacking up/off and removing granolithic, screed, plaster etc from concrete or brickwork and preparing surfaces for new finish</u>			
5	Internal paint from walls	m2	156	
	<u>Taking out and removing ironmongery</u>			
6	Remove white board and make good surface to receive new board	No	1	
	Carried Forward			R
	Section No. 3 Bill No. 2 ALTERATIONS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward			R	
<u>Preparatory work to existing surfaces</u>				
7 Carefully disconnect electrical installation and electrical fittings under the supervision of qualified electrician and in consultation with Electrical Engineer	Item			
8 Carefully disconnect mechanical installation and mechanical fittings under the supervision of qualified mechanical and in consultation with Mechanical Engineer	Item			
Carried Forward to Summary of Section No. 3			R	
Section No. 3 Bill No. 2 ALTERATIONS Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>MASONRY (PROVISIONAL)</u>			
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	One brick walls	m2	10	
	<u>Brickwork reinforcement</u>			
2	150mm Wide reinforcement built in horizontally	m	15	
	<u>Prestressed fabricated lintels</u>			
3	110 x 75mm Lintels in lengths not exceeding 3m	m	2	
	<u>Sundries</u>			
4	Toothng and bonding new brickwork into existing brickwork,	m	29	
	 Carried Forward to Summary of Section No. 3			R
	Section No. 3 Bill No. 3 MASONRY Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>Fire rated solid timber door</u> <u>Bitcon industries or similar approved Class B fire resistant door 1 310 x 2 032mm high one and half leaves door bigger door leaf to be 900mm wide with rebated meeting stiles and commercial veneer both sides</u>			
1	Door size 1300x 2064mm hung on door frames	No	2	
	<u>Fire rated solid timber door</u> <u>Bitcon industries or similar approved Class B fire resistant door 900 x 2032mm high standard size single door with rebated meeting stiles and commercial veneer both sides</u>			
2	Door size 900 x 2064mm hung on door frames	No	1	
	<u>Semi solid timber door with commercial veneer on both sides for painting, with 400 x 300mm opening for aluminium louvre grille</u>			
3	Door size 900 x 2064mm hung on door frames	m	2	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3 Bill No. 4 CARPENTRY AND JOINERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
	<u>Ceiling tiles - Vinyl clad-insulated 1200 x 600 x 15mm thick Pelican econocaustpinhole mineral wool ceiling with square edges and white painted finish, suspended on exposed pre-painted aluminium capped metal tees</u>			
1	Ceiling tiles	m2	44	
2	50m shadow line around perimeters of walls	m	30	
	<u>INSULATION</u>			
	<u>Non-combustible lightweight fibreglass insulation blanket:</u>			
3	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	44	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 5			
	CEILINGS, PARTITIONS & ACCESS FLOORING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>HINGES, BOLTS, ETC</u>			
1	2x19SCKA knob cylinder profile KA SC	No	5	
2	Code SS5305-05SS Escutcheon on rose profile (pairs)	No	5	
	<u>Pull Handles</u>			
3	22mm Diameter Tubular SS Dove pull handle on 152 x 304mm back plate blank	No	5	
4	152x304mm Stainless steel push plate blank	No	5	
	<u>Locks</u>			
5	Euro cylinder deadlock - stainless steel	No	5	
	<u>DOOR CLOSERS</u>			
	<u>"Assa Abloy" or similar approved</u>			
6	CAM action closer EN1-4 SIL	No	5	
7	Angle mounting plate for guide rail for Assa Abloy Door Closers	No	5	
	<u>Kick plates</u>			
8	150mm high x 3mm Anodised finish, counter sunk holed for and screwed to door with chromium plated dome headed screws	No	4	
	<u>Door Stop</u>			
9	Satin SS floor door stop	No	5	
	Carried Forward			R
	Section No. 3 Bill No. 6 IRONMONGERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

		Brought Forward			
				R	
	<u>DOOR CLOSERS</u>				
	<u>"Dorma" or similar approved</u>				
10	TS71 Silver door closer	No		5	
	<u>SIGNAGE</u>				
	<u>2mm "Dibond" or similar approved composite panel with aluminium finish on side and self adhesive vinyl sign on the other side, fixed with double side tape, silicone or plugged</u>				
11	152 x 304mm High DPC fire extinguisher downward pointing	No		4	
12	152 x 304mm High fire hose reel downward pointing arrow sign	No		1	
13	152 x 304mm High DB board downward pointing arrow sign	No		1	
14	304 x 152mm High running man and direction pointing arrow sign	No		2	
15	304 x 152mm High "Exit" sign	No		2	
	<u>"Anodised" aluminium sign plate with room name on it</u>				
16	Laboratory	No		2	
17	Prep room	No		1	
18	Office	No		1	
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION, SCREENS, ETC.</u>				
	<u>White writing board to Architect specifications</u>				
19	Writing board size 4500 x 1200mm high plugged	m		1	
	Carried Forward to Summary of Section No. 3				R
	Section No. 3				
	Bill No. 6				
	IRONMONGERY				
	Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Thick mild steel single rebate door frame 2032mm high, complete with 1.5mm thick pair hinges and lock jamb, and tie bar unit</u>			
	<u>Existing door frames</u>			
	<u>Make good to existing door frame and prepare for paint</u>			
1	Frame for door 1310 x 2064mm high	No	2	
2	Frame for door size 900 x 2064mm high	No	3	
	<u>New door frames</u>			
	<u>1,2mm Thick mild steel single rebate door frame 2032mm high, complete with 1.5mm thick pair hinges and lock jamb, and tie bar unit</u>			
3	Frame for door 1300 x 2064mm high	No	3	
4	Frame for door 900 x 2 064mm high	No	2	
	<u>EXISTING WINDOWS</u>			
5	Allow for fixing and servicing existing windows, frames, and replacing broken window panes	m2	44	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 7			
	METALWORK			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>PLASTERING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SCREEDS</u>			
	<u>Existing screeds on concrete</u>			
1	50mm thick screed in isolated positions	m2	35	
2	50mm Screed to floors	m2	118	
	<u>INTERNAL PLASTER</u>			
	<u>Two coat plaster on brickwork</u>			
3	On new brick wall	m2	10	
4	On existing plastered walls in isolated positions in matching existing	m2	220	
5	Ditto but on narrow widths not exceeding 300mm wide	m	60	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 8			
	PLASTERING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>TILING AND FLOOR COVERINGS</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>FLOOR TILING</u>			
	<u>Superflex sheeting Charcoal, code: MS113</u> <u>pattern as indicated</u>			
1	On floors	m2	148	
	<u>Superflex sheeting prassian blue code: MS174</u>			
2	On screeded floors	m2	26	
	<u>Star Gripper Plus</u> <u>Product code: 5901, by Matcomarketing, or</u> <u>approved equal matting laid in 15mm deep</u> <u>recessed opening in screed, edged with</u> <u>aluminium edging strip</u>			
3	15mm Thick 1600 x 1000mm mat	No	2	
	<u>Coved vinyl</u>			
4	150mm Coved vinyl	m	41	
	<u>Edge trims</u>			
5	Aluminium edge trim 12mm x 12mm	m	77	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Bill No. 9			
	TILING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PAINTWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PAINTWORK, ETC TO EXISTING WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat universal undercoat and two coats "Plascon Double Velvet" paint on</u>			
1	Internal walls	m2	220	
2	On new walls	m2	10	
3	To narrow widths not exceeding 300mm wide	m	60	
	<u>CEILING</u>			
	<u>One coat primer and two coats "Polvin Super Acrylic PVA" paint (EPL) on</u>			
4	On shadow line	m	44	
	<u>ON DOORS</u>			
	<u>Sand & stop where necessary. Prepare and apply undercoat and 2 coats Dulux eggshell enamel paint. Colour-to Architects specifications</u>			
5	On doors	m2	34	
	<u>ON METAL</u>			
	<u>Factory coated red oxide with phosphate primer for semi gloss enamel paint Dulx French clay 6I1-4</u>			
6	On windows frames	m2	44	
	Carried Forward			R
	Section No. 3 Bill No. 10 PAINTWORK Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

	Brought Forward			R
7	On door frames	m2	20	
Carried Forward to Summary of Section No. 3				R
Section No. 3 Bill No. 10 PAINTWORK Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: All tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the JBCC Preliminaries			
	NOTE: All Provisional and Prime Cost Amounts are NET i.e: there is no cash discount			
	NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill			
	<u>NOTE: For All provisional sum amounts, contractor will provide three quotation from suppliers for adjudication and evaluation by the principal agent.</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u>			
	<u>Lab Seating and desks</u>			
1	Provide the sum of R43 700.00 (Forty Three Thousand and Seven Hundred Rand) for seating and desks installed complete	Item		43,700.00
2	Profit	Item		
3	Attendance	Item		
	Carried Forward		R	
	Section No. 3 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Equipments</u>		
4	Provide the sum of R507 000.00 (Two Hundred and Seven Thousand Rand) for stripping and removing existing equipments and replacing with the new equipments installed complete	Item 507,000.00
5	Profit	Item
6	Attendance	Item
<u>Electrical Installation</u>		
7	Provide the sum of R150 000.00 (One Hundred ad Fifty Thousand Rand) for electrical works installed complete	Item 150,000.00
8	Profit	Item
9	Attendance	Item
<u>Mechanical Installation</u>		
10	Provide the sum of R85 000.00 (Eighty Five Thousand Rand) for mechanical works installed complete	Item 85,000.00
11	Profit	Item
12	Attendance	Item
<u>Gas bank,Bottles and Pipes</u>		
13	Provide the sum of R25 000,00 (Twenty Five Thousand Rands only) for gasbanks, bottles and pipes installed complete	Item 25,000.00
14	Profit	Item
15	Attendance	Item
<u>Water supply</u>		
16	Allow the sum of R24,000.00 (Twenty Four Thousand Rands only) for water supply installed complete	Item 24,000.00
Carried Forward		R
Section No. 3 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services		

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

	Brought Forward		R
17	Profit	Item	
18	Attendance	Item	
Carried Forward to Summary of Section No. 3			R
Section No. 3 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

SECTION SUMMARY - LABORATORY C207

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Carried to Final Summary			R
Section No. 3 Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	The tender is based on JBCC Edition 6.2 of May 2018			
	<u>Definitions (A1)</u>			
1	<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		
	<u>Objective and preparations (A2 - A14)</u>			
2	<p>Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....</p>	Item		
3	<p>Clause 3.0 - Documents</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Clause 4.0 - Design responsibility F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
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 specifications [7.1] F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Public Liability insurance to be affected by the contractor for an amount of R 1 000 000.00 F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Works insurance to be affected by the Contractor for the sum of contract amount + 10% F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
14	Clause 14.0 - Security F:..... V:..... T:.....	Item		
	<u>Execution (A15 - A23)</u>			
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
16	Clause 16.0 - Site and access The contractor must consult with the principle agent regarding an site access limitations / restrictions. <i>Reference [16.1]</i> The contractor must consult the principle agent regarding site occupation during the cause of construction. <i>Reference [16.6]</i> The contractor must consult the principle agent regarding the following: <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		
	Carried Forward		R	
	Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward			R
18	<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 [18.1].</p> <p>F: V:.....T:.....</p>	Item		
19	<p>Clause 19.0 - Temporary works and plant</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward			R
	<p>Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Completion (A24 - A30)</u>		
24	Clause 24.0 - Practical completion Practical completion date is 3 Months after contractual commencement date 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 F:..... V:..... T:.....	Item
29	Clause 29.0 - Revision of date for practical completion Practical completion date is three months after contractual commencement date. The removal and replacement of materials and/or workmanship which do not conform to 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 Penalty amount is 0.05% of the contract amount per calender day. F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Payment (A31 - A35)</u>		
31	<p>Clause 31.0 - Interim payment</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 [32.13]</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 or profit shall not be entertained [32.2]</p> <p>F:..... V:..... T:.....</p>	Item	
33	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F:..... V:..... T:.....</p>	Item	
34	<p>Clause 34.0 - Final account and final payment</p> <p>F:..... V:..... T:.....</p>	Item	
35	<p>Clause 35.0 - Payment to other parties</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Termination (A36 - A39)</u>		
36	<p>Clause 36.0 - Termination by employer - contractor's default</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
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 contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

Carried Forward

R

Section No. 4
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Brought Forward			R
<u>SECTION B - PRELIMINARIES</u>			
<u>Definitions and interpretation (B1)</u>			
43	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	
<u>Documents (B2)</u>			
44	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 F:..... V:..... T:.....	Item	
46	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item	
<u>Previous work and adjoining properties (B3)</u>			
47	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
48	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
49	Clause 3.3 - Inspection of adjoining propertiesF:..... V:..... T:.....	Item	
	<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 drawingsF:..... V:..... T:.....	Item	
53	Clause 4.4 - Compliance with manufacturer's instructionsF:..... 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 - WaterF:..... V:..... T:.....	Item	
56	Clause 6.2 - ElectricityF:..... V:..... T:.....	Item	
57	Clause 6.3 - Telecommunication facilitiesF:..... V:..... T:.....	Item	
58	Clause 6.4 - Ablution facilitiesF:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Prime cost amounts (B7)</u>		
59	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
	<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 F:..... V:..... T:	Item	
	Carried Forward		R
	Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
68	Clause 9.8 - VerminF:..... V:..... T:.....	Item	
69	Clause 9.9 - Overhand workF:..... V:..... T:.....	Item	
<u>Schedule of variables (B10)</u>			
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]			
10.4 - Previous work - defects [clause 3.2]			
10.5 - Inspection of adjoining properties [clause 3.3]			
10.6 - Water [clause 7.2]			
Option A (by contractor) yes			
Option B (by employer - free of charge) no			
Option C (by employer - metered) no			
Carried Forward			R
Section No. 4 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
10.7 - Electricity [clause 7.3]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer - free of charge)	<i>no</i>		
Option C (by employer - metered)	<i>no</i>		
10.8 - Telecommunications [clause 7.4]			
Telephone	<i>yes</i>		
Facsimile	<i>no</i>		
E-mail	<i>yes</i>		
10.9 - Ablution facilities [clause 7.5]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer)	<i>no</i>		
10.10 - Protection of the works [clause 9.1]			
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]			
Protection/isolation is required	<i>no</i>		
10.12 - Disturbance [clause 9.5]			
10.13 - Environmental disturbance [clause 9.6]			
	Carried Forward		R
Section No. 4			
Bill No. 1			
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REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

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**

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

Item

71 **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 **final 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

Carried Forward

R

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PRELIMINARIES
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REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

72 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:.....

Item

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 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

Carried Forward

R

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Zethu Consulting Services

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

Carried Forward to Summary of Section No. 4

R

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REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades"</u>			
	<u>Stripping work to existing buildings:</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, frames etc from brickwork</u>			
1	Timber double door from steel frame	No	1	
2	Timber single door from steel frame	No	1	
	<u>Taking down and removing floors, panelling, ceiling, partition, etc</u>			
3	Vinyl tiles/sheeting including skirting	m2	131	
4	Gypsum plasterboard ceiling including cornices, timber bandering, etc	m2	39	
	<u>Hacking up/off and removing granolithic, screed, plaster etc from concrete or brickwork and preparing surfaces for new finish</u>			
5	Internal paint from walls	m2	220	
	<u>Taking out and removing ironmongery</u>			
6	Remove writing board and make good surface to receive new board	No	1	
	Carried Forward			R
	Section No. 4 Bill No. 2 ALTERATIONS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward			R	
<u>Preparatory work to existing surfaces</u>				
7 Carefully disconnect electrical installation and electrical fittings under the supervision of qualified electrician and in consultation with Electrical Engineer	Item			
8 Carefully disconnect mechanical installation and mechanical fittings under the supervision of qualified mechanical and in consultation with Mechanical Engineer	Item			
Carried Forward to Summary of Section No. 4			R	
Section No. 4 Bill No. 2 ALTERATIONS Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>MASONRY (PROVISIONAL)</u>			
	NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No. 116 for CPAP formula purposes.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SUPERSTRUCTURE</u>			
	<u>Brickwork of NFP bricks in class II mortar</u>			
1	One brick walls	m2	10	
	<u>Brickwork reinforcement</u>			
2	150mm Wide reinforcement built in horizontally	m	15	
	<u>Prestressed fabricated lintels</u>			
3	110 x 75mm Lintels in lengths not exceeding 3m	m	2	
	<u>Sundries</u>			
4	Toothng and bonding new brickwork into existing brickwork,	m	29	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 Bill No. 3 MASONRY Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>Fire rated solid timber door</u> <u>Bitcon industries or similar approved Class B fire resistant door 1 310 x 2 032mm high one and half leaves door bigger door leaf to be 900mm wide with rebated meeting stiles and commercial veneer both sides</u>			
1	Door size 1300x 2064mm hung on door frames	No	1	
	<u>Fire rated solid timber door</u> <u>Bitcon industries or similar approved Class B fire resistant door 900 x 2032mm high standard size single door with rebated meeting stiles and commercial veneer both sides</u>			
2	Door size 900 x 2064mm hung on door frames	No	3	
	<u>Semi solid timber door with commercial veneer on both sides for painting, with 400 x 300mm opening for aluminium louvre grille</u>			
3	Door size 900 x 2064mm hung on door frames	m	1	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4 Bill No. 4 CARPENTRY AND JOINERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
	<u>Ceiling tiles - Vinyl clad-insulated 1200 x 600 x 15mm thick Pelican econocaust perlite mineral wool ceiling with square edges and white painted finish, suspended on exposed pre-painted aluminium capped metal tees</u>			
1	Ceiling tiles	m2	39	
2	50m shadow line around perimeters of walls	m	30	
	<u>INSULATION</u>			
	<u>Non-combustible lightweight fibreglass insulation blanket:</u>			
3	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	39	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Bill No. 5			
	CEILINGS, PARTITIONS & ACCESS FLOORING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>HINGES, BOLTS, ETC</u>			
1	2x19SCKA knob cylinder profile KA SC	No	5	
2	Code SS5305-05SS Escutcheon on rose profile (pairs)	No	5	
	<u>Pull Handles</u>			
3	22mm Diameter Tubular SS Dove pull handle on 152 x 304mm back plate blank	No	5	
4	152x304mm Stainless steel push plate blank	No	5	
	<u>Locks</u>			
5	Euro cylinder deadlock - stainless steel	No	5	
	<u>DOOR CLOSERS</u>			
	<u>"Assa Abloy" or similar approved</u>			
6	CAM action closer EN1-4 SIL	No	5	
7	Angle mounting plate for guide rail for Assa Abloy Door Closers	No	5	
	<u>Kick plates</u>			
8	150mm high x 3mm Anodised finish, counter sunk holed for and screwed to door with chromium plated dome headed screws	No	4	
	<u>Door Stop</u>			
9	Satin SS floor door stop	No	5	
	Carried Forward			R
	Section No. 4 Bill No. 6 IRONMONGERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

		Brought Forward			R
	<u>SIGNAGE</u>				
	<u>2mm "Dibond" or similar approved composite panel with aluminium finish on side and self adhesive vinyl sign on the other side, fixed with double side tape, silicone or plugged</u>				
10	152 x 304mm High DPC fire extinguisher downward pointing	No	4		
11	152 x 304mm High fire hose reel downward pointing arrow sign	No	1		
12	152 x 304mm High DB board downward pointing arrow sign	No	1		
13	304 x 152mm High running man and direction pointing arrow sign	No	2		
14	304 x 152mm High "Exit" sign	No	2		
	<u>"Anodised" aluminium sign plate with room name on it</u>				
15	Laboratory	No	2		
16	Prep room	No	1		
17	Office	No	1		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION, SCREENS, ETC.</u>				
	<u>White writing board to Architect specifications</u>				
18	Writing board size 4500 x 1200mm high plugged	m	1		
	Carried Forward to Summary of Section No. 4				R
	Section No. 4				
	Bill No. 6				
	IRONMONGERY				
	Zethu Consulting Services				

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Thick mild steel single rebate door frame 2032mm high, complete with 1.5mm thick pair hinges and lock jamb, and tie bar unit</u>			
1	Frame for door 1 000 x 2064mm high	No	3	
2	Frame for door 1 500 x 2 064mm high	No	2	
	<u>EXISTING WINDOWS</u>			
3	Allow for fixing and servicing existing windows, frames, and replacing broken window panes	m2	44	
	Carried Forward to Summary of Section No. 4		R	
	Section No. 4			
	Bill No. 7			
	METALWORK			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>PLASTERING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SCREEDS</u>			
	<u>Existing screeds on concrete</u>			
1	50mm thick screed in isolated positions	m2	35	
2	50mm Screed to floors	m2	118	
	<u>INTERNAL PLASTER</u>			
	<u>Two coat plaster on brickwork</u>			
3	On new brick wall	m2	10	
4	On existing plastered walls in isolated positions in matching existing	m2	220	
5	Ditto but on narrow widths not exceeding 300mm wide	m	60	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Bill No. 8			
	PLASTERING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>TILING AND FLOOR COVERINGS</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>FLOOR TILING</u>			
	<u>Superflex sheeting Charcoal, code: MS113</u> <u>pattern as indicated</u>			
1	On floors	m2	148	
	<u>Superflex sheeting prassian blue code: MS174</u>			
2	On screeded floors	m2	26	
	<u>Star Gripper Plus</u> <u>Product code: 5901, by Matcomarketing, or</u> <u>approved equal matting laid in 15mm deep</u> <u>recessed opening in screed, edged with</u> <u>aluminium edging strip</u>			
3	15mm Thick 1600 x 1000mm mat	No	2	
	<u>Coved vinyl</u>			
4	150mm Coved vinyl	m	70	
	<u>Edge trims</u>			
5	Aluminium edge trim 12mm x 12mm	m	77	
	Carried Forward to Summary of Section No. 4			R
	Section No. 4			
	Bill No. 9			
	TILING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PAINTWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PAINTWORK, ETC TO EXISTING WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat universal undercoat and two coats "Plascon Double Velvet" paint on</u>			
1	Internal walls	m2	220	
2	On new walls	m2	10	
3	To narrow widths not exceeding 300mm wide	m	60	
	<u>CEILING</u>			
	<u>One coat primer and two coats "Polvin Super Acrylic PVA" paint (EPL) on</u>			
4	On shadow line	m	39	
	<u>ON DOORS</u>			
	<u>Sand & stop where necessary. Prepare and apply undercoat and 2 coats Dulux eggshell enamel paint. Colour-to Architects specifications</u>			
5	On doors	m2	34	
	<u>ON METAL</u>			
	<u>Factory coated red oxide with phosphate primer for semi gloss enamel paint Dulx French clay 6I1-4</u>			
6	On windows frames	m2	44	
	Carried Forward			R
	Section No. 4 Bill No. 10 PAINTWORK Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

		Brought Forward			R
7	On door frames	m2	20		
Carried Forward to Summary of Section No. 4					R
Section No. 4 Bill No. 10 PAINTWORK Zethu Consulting Services					

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: All tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the JBCC Preliminaries			
	NOTE: All Provisional and Prime Cost Amounts are NET i.e: there is no cash discount			
	NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill			
	<u>NOTE: For All provisional sum amounts, contractor will provide three quotation from suppliers for adjudication and evaluation by the principal agent.</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u>			
	<u>Lab Seating and desks</u>			
1	Provide the sum of R43 700.00 (Forty Three Thousand Seven Hundred Rand) for seating and desks installed complete	Item		43,700.00
2	Profit	Item		
3	Attendance	Item		
	Carried Forward		R	
	Section No. 4 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

		Brought Forward	R
<u>Equipments</u>			
4	Provide the sum of R507 000.00 (Five Hundred and Seven Thousand Rand) for stripping and removing existing equipments and replacing with the new equipments installed complete	Item	507,000.00
5	Profit	Item	
6	Attendance	Item	
<u>Electrical Installation</u>			
7	Provide the sum of R150 000.00 (One Hundred ad Fifty Thousand Rand) for electrical works installed complete	Item	150,000.00
8	Profit	Item	
9	Attendance	Item	
<u>Mechanical Installation</u>			
10	Provide the sum of R85 000.00 (Eighty Five Thousand Rand) for mechanical works installed complete	Item	85,000.00
11	Profit	Item	
12	Attendance	Item	
<u>Gas bank,Bottles and Pipes</u>			
13	Provide the sum of R25 000,00 (Twenty Five Thousand Rands only) for gasbanks, bottles and pipes installed complete	Item	25,000.00
14	Profit	Item	
15	Attendance	Item	
<u>Water supply</u>			
16	Allow the sum of R24,000.00 (Twenty Four Thousand Rands only) for water supply installed complete	Item	24,000.00
		Carried Forward	R
Section No. 4 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

	Brought Forward		R
17	Profit	Item	
18	Attendance	Item	
Carried Forward to Summary of Section No. 4			R
Section No. 4 Bill No. 11 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Bill No	<u>SECTION SUMMARY - LABORATORY C209</u>	Page No	Amount
1	PRELIMINARIES	110	
2	ALTERATIONS	112	
3	MASONRY	113	
4	CARPENTRY AND JOINERY	114	
5	CEILINGS, PARTITIONS & ACCESS FLOORING	115	
6	IRONMONGERY	117	
7	METALWORK	118	
8	PLASTERING	119	
9	TILING	120	
10	PAINTWORK	122	
11	PROVISIONAL SUMS	125	
	Carried to Final Summary		R
	Section No. 4 Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 1</u>			
	<u>PRELIMINARIES</u>			
	<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
	The tender is based on JBCC Edition 6.2 of May 2018			
	<u>Definitions (A1)</u>			
1	<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		
	<u>Objective and preparations (A2 - A14)</u>			
2	<p>Clause 2.0 - Offer acceptance and performance obligations F:..... V:..... T:.....</p>	Item		
3	<p>Clause 3.0 - Documents</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any [3.9]</p> <p>F:..... V:..... T:.....</p>	Item		
4	<p>Clause 4.0 - Design responsibility F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
5	Clause 5.0 - Employer's agents F:..... V:..... T:.....	Item	
6	Clause 6.0 - Contractor's site representative F:..... V:..... T:.....	Item	
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 specifications [7.1] F:..... V:..... T:.....	Item	
8	Clause 8.0 - Works risk F:..... V:..... T:.....	Item	
9	Clause 9.0 - Public Liability insurance to be affected by the contractor for an amount of R 1 000 000.00 F:..... V:..... T:.....	Item	
10	Clause 10.0 - General insurances F:..... V:..... T:.....	Item	
11	Clause 11.0 - Works insurance to be affected by the Contractor for the sum of contract amount + 10% F:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward			R
12	Clause 12.0 - Effecting insurances F:..... V:..... T:.....	Item		
13	Clause 13.0 - Assignment F:..... V:..... T:.....	Item		
14	Clause 14.0 - Security F:..... V:..... T:.....	Item		
	<u>Execution (A15 - A23)</u>			
15	Clause 15.0 - Preparation for and execution of the works F:..... V:..... T:.....	Item		
16	Clause 16.0 - Site and access The contractor must consult with the principle agent regarding an site access limitations / restrictions. <i>Reference [16.1]</i> The contractor must consult the principle agent regarding site occupation during the cause of construction. <i>Reference [16.6]</i> The contractor must consult the principle agent regarding the following: <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		
	Carried Forward			R
	Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
18	<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 [18.1].</p> <p>F: V:.....T:.....</p>	Item		
19	<p>Clause 19.0 - Temporary works and plant</p> <p>F:..... V:..... T:.....</p>	Item		
20	<p>Clause 20.0 - Nominated subcontractors</p> <p>Refer to the provisions on general attendance hereinafter</p> <p>F:..... V:..... T:.....</p>	Item		
21	<p>Clause 21.0 - Selected subcontractors</p> <p>General attendance of n/s subcontractors for pricing by the contractor shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as may reasonably be required by such n/s subcontractor for the execution of the relevant subcontract work</p> <p>F:..... V:..... T:.....</p>	Item		
22	<p>Clause 22.0 - Employer's direct contractors</p> <p>F:..... V:..... T:.....</p>	Item		
23	<p>Clause 23.0 - Contractor's domestic subcontractors</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Completion (A24 - A30)</u>		
24	Clause 24.0 - Practical completion Practical completion date is 3 Months after contractual commencement date 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 F:..... V:..... T:.....	Item
29	Clause 29.0 - Revision of date for practical completion Practical completion date is three months after contractual commencement date. The removal and replacement of materials and/or workmanship which do not conform to 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 Penalty amount is 0.05% of the contract amount per calender day. F:..... V:..... T:.....	Item
Carried Forward		R
Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Payment (A31 - A35)</u>		
31	<p>Clause 31.0 - Interim payment</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 [32.13]</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 or profit shall not be entertained [32.2]</p> <p>F:..... V:..... T:.....</p>	Item	
33	<p>Clause 33.0 - Recovery of expense and loss</p> <p>F:..... V:..... T:.....</p>	Item	
34	<p>Clause 34.0 - Final account and final payment</p> <p>F:..... V:..... T:.....</p>	Item	
35	<p>Clause 35.0 - Payment to other parties</p> <p>F:..... V:..... T:.....</p>	Item	
	<u>Termination (A36 - A39)</u>		
36	<p>Clause 36.0 - Termination by employer - contractor's default</p> <p>F:..... V:..... T:.....</p>	Item	
	Carried Forward		R
	<p>Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
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 contracting parties and the amount of the accepted contract sum shall be inserted in the agreement for signature of the agreement by the parties F:..... V:..... T:.....	Item		
	Carried Forward		R	
	Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

Carried Forward

R

Section No. 5
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

Brought Forward			R
<u>SECTION B - PRELIMINARIES</u>			
<u>Definitions and interpretation (B1)</u>			
43	Clause 1.0 - Definitions and interpretation F:..... V:..... T:.....	Item	
<u>Documents (B2)</u>			
44	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 F:..... V:..... T:.....	Item	
46	Clause 2.3 - Availability of construction documentation The budgetary allowances and selected subcontract amounts allocated for subsequent trades included in this agreement will be separately procured, based on multiple procurement of selected subcontractors during the construction period F:..... V:..... T:.....	Item	
<u>Previous work and adjoining properties (B3)</u>			
47	Clause 3.1 - Previous work - dimensional accuracy F:..... V:..... T:.....	Item	
Carried Forward			R
Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
48	Clause 3.2 - Previous work - defects F:..... V:..... T:.....	Item	
49	Clause 3.3 - Inspection of adjoining propertiesF:..... V:..... T:.....	Item	
	<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 drawingsF:..... V:..... T:.....	Item	
53	Clause 4.4 - Compliance with manufacturer's instructionsF:..... 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 - WaterF:..... V:..... T:.....	Item	
56	Clause 6.2 - ElectricityF:..... V:..... T:.....	Item	
57	Clause 6.3 - Telecommunication facilitiesF:..... V:..... T:.....	Item	
58	Clause 6.4 - Ablution facilitiesF:..... V:..... T:.....	Item	
	Carried Forward		R
	Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
	<u>Prime cost amounts (B7)</u>		
59	Clause 7.1 - Responsibility for prime cost amounts F:..... V:..... T:.....	Item	
	<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 F:..... V:..... T:	Item	
	Carried Forward		R
	Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
67	Clause 9.7 - Works cleaning and clearing F:..... V:..... T:.....	Item	
68	Clause 9.8 - VerminF:..... V:..... T:.....	Item	
69	Clause 9.9 - Overhand workF:..... V:..... T:.....	Item	
<u>Schedule of variables (B10)</u>			
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]			
10.4 - Previous work - defects [clause 3.2]			
10.5 - Inspection of adjoining properties [clause 3.3]			
10.6 - Water [clause 7.2]			
Option A (by contractor) yes			
Option B (by employer - free of charge) no			
Option C (by employer - metered) no			
Carried Forward			R
Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R
10.7 - Electricity [clause 7.3]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer - free of charge)	<i>no</i>		
Option C (by employer - metered)	<i>no</i>		
10.8 - Telecommunications [clause 7.4]			
Telephone	<i>yes</i>		
Facsimile	<i>no</i>		
E-mail	<i>yes</i>		
10.9 - Ablution facilities [clause 7.5]			
Option A (by contractor)	<i>yes</i>		
Option B (by employer)	<i>no</i>		
10.10 - Protection of the works [clause 9.1]			
10.11 - Protection/isolation of existing/sectionally occupied works [clause 9.2]			
Protection/isolation is required	<i>no</i>		
10.12 - Disturbance [clause 9.5]			
10.13 - Environmental disturbance [clause 9.6]			
	Carried Forward		R
Section No. 5			
Bill No. 1			
PRELIMINARIES			
Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

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**

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

Item

71 **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 **final 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

Carried Forward

R

Section No. 5
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
72	<p>Co-operation of contractor for cost management</p> <p>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</p> <p>F:.....V:.....T:.....</p>	Item		
73	<p>Propping of floors below</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
74	<p>Testing of windows for watertightness</p> <p>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</p> <p>F:..... V:..... T:.....</p>	Item		
	Carried Forward		R	
	<p>Section No. 5 Bill No. 1 PRELIMINARIES Zethu Consulting Services</p>			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Brought Forward

R

SUMMARY OF CATEGORIES

Category: Fixed R

Category: Value R

Category: Time R

Category: Fixed R

Category: Value R

Category: Time R

Carried Forward to Summary of Section No. 5

R

Section No. 5
Bill No. 1
PRELIMINARIES
Zethu Consulting Services

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 2</u>			
	<u>ALTERATIONS</u>			
	<u>PREAMBLES</u>			
	<u>For preambles see "Model Preambles for Trades"</u>			
	<u>Stripping work to existing buildings:</u>			
	<u>REMOVAL OF EXISTING WORK</u>			
	<u>Taking out and removing doors, frames etc from brickwork</u>			
1	Timber single door from steel frame	No	1	
2	Timber double door from steel frame	No	2	
	<u>Taking down and removing floors, panelling, ceiling, partition, etc</u>			
3	Vinyl tiles/sheeting including skirting	m2	118	
4	Gypsum plasterboard ceiling including cornices, timber bandering, etc	m2	35	
	<u>Hacking up/off and removing granolithic, screed, plaster etc from concrete or brickwork and preparing surfaces for new finish</u>			
5	Internal paint from walls	m2	246	
	<u>Taking out and removing ironmongery</u>			
6	Remove writing board from wall and make good surface to receive new board	No	1	
	Carried Forward			R
	Section No. 5 Bill No. 2 ALTERATIONS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward		R	
	<u>Preparatory work to existing surfaces</u>			
7	Carefully disconnect electrical installation and electrical fittings under the supervision of qualified electrician and in consultation with Electrical Engineer	Item		
8	Carefully disconnect mechanical installation and mechanical fittings under the supervision of qualified mechanical and in consultation with Mechanical Engineer	Item		
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 Bill No. 2 ALTERATIONS Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 3</u>			
	<u>CARPENTRY AND JOINERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>Fire rated solid timber door</u> <u>Bitcon industries or similar approved Class B fire resistant door 1 310 x 2 032mm high one and half leaves door bigger door leaf to be 900mm wide with rebated meeting stiles and commercial veneer both sides</u>			
1	Door size 1300x 2064mm hung on door frames	No	2	
	<u>Semi solid timber door with commercial veneer on both sides for painting, with 400 x 300mm opening for aluminium louvre grille</u>			
2	Door size 900 x 2064mm hung on door frames	No	1	
	Carried Forward to Summary of Section No. 5		R	
	Section No. 5 Bill No. 3 CARPENTRY AND JOINERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 4</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>CEILING TIMBERS, BEADS, INSULATION, ETC</u>			
	<u>Ceiling tiles - Vinyl clad-insulated 1200 x 600 x 15mm thick Pelican econocaustpinhole mineral wool ceiling with square edges and white painted finish, suspended on exposed pre-painted aluminium capped metal tees</u>			
1	Ceiling tiles	m2	35	
2	50m shadow line around perimeters of walls	m	14	
	<u>INSULATION</u>			
	<u>Non-combustible lightweight fibreglass insulation blanket:</u>			
3	100mm Insulation closely fitted between tie beams and laid loose on top of brandering.	m2	35	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5			
	Bill No. 4			
	CEILINGS, PARTITIONS & ACCESS FLOORING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 5</u>			
	<u>IRONMONGERY (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>HINGES, BOLTS, ETC</u>			
1	2x19SCKA knob cylinder profile KA SC	No	3	
2	Code SS5305-05SS Escutcheon on rose profile (pairs)	No	3	
	<u>Pull Handles</u>			
3	22mm Diameter Tubular SS Dove pull handle on 152 x 304mm back plate blank	No	3	
4	152x304mm Stainless steel push plate blank	No	3	
	<u>Locks</u>			
5	Euro cylinder deadlock - stainless steel	No	3	
	<u>DOOR CLOSERS</u>			
	<u>"Assa Abloy" or similar approved</u>			
6	CAM action closer EN1-4 SIL	No	3	
7	Angle mounting plate for guide rail for Assa Abloy Door Closers	No	3	
	<u>Kick plates</u>			
8	150mm high x 3mm Anodised finish, counter sunk holed for and screwed to door with chromium plated dome headed screws	No	4	
	<u>Door Stop</u>			
9	Satin SS floor door stop	No	3	
	Carried Forward			R
	Section No. 5 Bill No. 5 IRONMONGERY Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

		Brought Forward			R
	<u>SIGNAGE</u>				
	<u>2mm "Dibond" or similar approved composite panel with aluminium finish on side and self adhesive vinyl sign on the other side, fixed with double side tape, silicone or plugged</u>				
10	152 x 304mm High DPC fire extinguisher downward pointing	No	4		
11	152 x 304mm High fire hose reel downward pointing arrow sign	No	1		
12	152 x 304mm High DB board downward pointing arrow sign	No	1		
13	304 x 152mm High running man and direction pointing arrow sign	No	2		
14	304 x 152mm High "Exit" sign	No	2		
	<u>"Anodised" aluminium sign plate with room name on it</u>				
15	Laboratory	No	1		
16	Entrance	No	2		
	<u>PINNING BOARDS, WRITING BOARDS, PROJECTION, SCREENS, ETC.</u>				
	<u>White writing board to Architect specifications</u>				
17	Writing board size 4500 x 1200mm high plugged	No	1		
	Carried Forward to Summary of Section No. 5				R
	Section No. 5				
	Bill No. 5				
	IRONMONGERY				
	Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 6</u>			
	<u>METALWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PRESSED STEEL DOOR FRAMES</u>			
	<u>1,2mm Thick mild steel single rebate door frame 2032mm high, complete with 1.5mm thick pair hinges and lock jamb, and tie bar unit</u>			
	<u>Existing door frames</u>			
	<u>Make good to existing door frame and prepare for paint</u>			
1	Frame for door 1300 x 2064mm high	No	2	
2	Frame for door size 900 x 2064mm high	No	1	
	<u>New door frames</u>			
3	Frame for door 1310x 2064mm high	No	1	
4	Frame for door 900 x 2 064mm high	No	1	
	<u>EXISTING WINDOWS</u>			
5	Allow for fixing and servicing existing windows, frames, and replacing broken window panes	m2	21	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5			
	Bill No. 6			
	METALWORK			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 7</u>			
	<u>PLASTERING (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>SCREEDS</u>			
	<u>Existing screeds on concrete</u>			
1	50mm Screed to floors	m2	118	
	<u>INTERNAL PLASTER</u>			
	<u>Two coat plaster on brickwork</u>			
2	On existing plastered walls in isolated positions in matching existing	m2	246	
3	Ditto but on narrow widths not exceeding 300mm wide	m	25	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5			
	Bill No. 7			
	PLASTERING			
	Zethu Consulting Services			

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

Item No		Quantity	Rate	Amount
	<u>BILL NO 8</u>			
	<u>TILING AND FLOOR COVERINGS</u> <u>(PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>FLOOR TILING</u>			
	<u>Superflex sheeting Charcoal, code: MS113</u> <u>pattern as indicated</u>			
1	On floors	m2	104	
	<u>Superflex sheeting prassian blue code: MS174</u>			
2	On screeded floors	m2	10	
	<u>Star Gripper Plus</u> <u>Product code: 5901, by Matcomarketing, or</u> <u>approved equal matting laid in 15mm deep</u> <u>recessed opening in screed, edged with</u> <u>aluminium edging strip</u>			
3	15mm Thick 1600 x 1000mm mat	No	2	
	<u>Coved vinyl</u>			
4	150mm Coved vinyl	m	42	
	<u>Edge trims</u>			
5	Aluminium edge trim 12mm x 12mm	m	70	
	Carried Forward to Summary of Section No. 5			R
	Section No. 5			
	Bill No. 8			
	TILING			
	Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 9</u>			
	<u>PAINTWORK (PROVISIONAL)</u>			
	<u>PREAMBLES</u>			
	For preambles see "Model Preambles for Trades"			
	<u>PAINTWORK, ETC TO EXISTING WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>One coat universal undercoat and two coats "Plascon Double Velvet" paint on</u>			
1	Internal walls	m2	246	
2	To narrow widths not exceeding 300mm wide	m	25	
	<u>ON NAILED UP CEILING</u>			
	<u>One coat primer and two coats "Polvin Super Acrylic PVA" paint (EPL) on</u>			
3	Ceilings	m2	18	
4	On shadow line	m	27	
	<u>ON DOORS</u>			
	<u>Sand & stop where necessary. Prepare and apply undercoat and 2 coats Dulux eggshell enamel paint. Colour-to Architects specifications</u>			
5	On doors	m2	70	
	<u>ON METAL</u>			
	Carried Forward			R
	Section No. 5 Bill No. 9 PAINTWORK Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

	Brought Forward			R
	<u>Factory coated red oxide with phosphate primer for semi gloss enamel paint Dulx French clay 611-4</u>			
6	On windows frames	m2	18	
7	On door frames	m2	41	
Carried Forward to Summary of Section No. 5				R
Section No. 5 Bill No. 9 PAINTWORK Zethu Consulting Services				

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Item No		Quantity	Rate	Amount
	<u>BILL NO 10</u>			
	<u>PROVISIONAL AMOUNTS ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	NOTE: All tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	NOTE: Tenderers are referred to the definition of general attendance on nominated sub-contractors given in Clause 9 of the JBCC Preliminaries			
	NOTE: All Provisional and Prime Cost Amounts are NET i.e: there is no cash discount			
	NOTE: Under no circumstances may any Prime Cost - Provisional Amount, etc be extended at an amount lower than the amount given in the Bill			
	<u>NOTE: For All provisional sum amounts, contractor will provide three quotation from suppliers for adjudication and evaluation by the principal agent.</u>			
	<u>PROVISIONAL SUMS FOR SELECTED SUB-CONTRACT WORKS</u>			
	<u>Lab Seating and desks</u>			
1	Provide the sum of R43 700.00 (Forty Three Thousand and Seven Hundred Rand) for seating and desks installed complete	Item		43,700.00
2	Profit	Item		
3	Attendance	Item		
	Carried Forward		R	
	Section No. 5 Bill No. 10 PROVISIONAL SUMS Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Brought Forward		R
<u>Equipments</u>		
4	Provide the sum of R507 000.00 (Five Hundred and Seven Thousand Rand) for stripping and removing existing equipments and replacing with the new equipments installed complete	507,000.00
	Item	
5	Profit	Item
6	Attendance	Item
<u>Electrical Installation</u>		
7	Provide the sum of R150 000.00 (One Hundred ad Fifty Thousand Rand) for electrical works installed complete	150,000.00
	Item	
8	Profit	Item
9	Attendance	Item
<u>Mechanical Installation</u>		
10	Provide the sum of R50,000.00 (Fifty Thousand Rand) for mechanical works installed complete	50,000.00
	Item	
11	Profit	Item
12	Attendance	Item
<u>Gas bank,Bottles and Pipes</u>		
13	Provide the sum of R25 000,00 (Twenty Five Thousand Rands only) for gasbanks, bottles and pipes installed complete	25,000.00
	Item	
14	Profit	Item
15	Attendance	Item
<u>Water supply</u>		
16	Allow the sum of R24,000.00 (Twenty Four Thousand Rands only) for water supply installed complete	24,000.00
	Item	
Carried Forward		R
Section No. 5 Bill No. 10 PROVISIONAL SUMS Zethu Consulting Services		

REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES

	Brought Forward		R
17	Profit	Item	
18	Attendance	Item	
Carried Forward to Summary of Section No. 5			R
Section No. 5			
Bill No. 10			
PROVISIONAL SUMS			
Zethu Consulting Services			

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Bill No	<u>SECTION SUMMARY - LABORATORY C205 & C206</u>	Page No	Amount
1	PRELIMINARIES	142	
2	ALTERATIONS	144	
3	CARPENTRY AND JOINERY	145	
4	CEILINGS, PARTITIONS & ACCESS FLOORING	146	
5	IRONMONGERY	148	
6	METALWORK	149	
7	PLASTERING	150	
8	TILING	151	
9	PAINTWORK	153	
10	PROVISIONAL SUMS	156	
	Carried to Final Summary		R
	Section No. 5 Zethu Consulting Services		

**REFURBISHMENT AT THE MAIN CAMPUS (VANDERBIJLPARK)
LABORATORIES**

Section No	<u>FINAL SUMMARY</u>	Page No	Amount
1	STUDY ROOM C108	30	
2	LABORATORY C210	62	
3	LABORATORY C207	94	
4	LABORATORY C209	126	
5	LABORATORY C205 & C206	157	
	<u>COMMUNITY LIAISON OFFICER</u>		
	Allow the budgetary amount of R90 000.00 (Ninety Thousand Rand) NET for the employment of a community liaison officer required for labour requirements by the contractor and deducted in whole or part if not required	Item	
	Value Added Tax @ 15%		R
	SUB-TOTAL		R
	Carried to Form of Tender		R
	Zethu Consulting Services		