

Item No		Quantity	Rate	Amount
	<u>BILL NO.1</u>			
	<u>PRELIMINARIES</u>			
	NOTES			

	<u>NOTES</u>			
	i) The Agreement is to be the JBCC Series 2000 Principal Building Agreement, Edition 6.1, March 2014, including all other JBCC support documentation (Contract Data) that together form the contract between the Employer and Contractor			
	ii) The Tenderer is deemed to have referred to the above mentioned documents for the full intent and meaning of each clause. These clauses are referred to by clause number and heading only.			
	iii) Where standard clauses or alternatives are not applicable to this Agreement such modifications, corrections or supplements as will apply, are given under each relevant clause			
	iv) Where any items are not relevant to this specific Agreement such items are marked NOT APPLICABLE in the amount column			
	v) If Alternative A as set out in clause 3.0 in Contract Data hereinafter, is to be used for the adjustment of the preliminaries each item priced is to be allocated to one or more of the three categories, where "F" denotes a fixed amount (amount not to be varied), "V" denotes an amount variable in proportion to value and "T" denotes an amount variable in proportion to time			
	vi) Items not priced in these preliminaries shall be deemed to be included elsewhere			
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vii) Should there be any discrepancy between these Preliminaries and the Agreement, these Preliminaries shall take precedence.

SECTION A: PRINCIPAL BUILDING AGREEMENT

INTERPRETATION

1 Definitions and interpretation (clause 1)

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

Item

2 Law, Regulations and Notices (clause 2)

Occupational Health and Safety Act, 1993

Without limiting the generality of the provisions of clause 2.1 of the Agreement, 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 in which it is specifically stated that the Employer shall prepare a documented health and safety specification for the Works (refer to Annexure A for a copy of the relevant specification) 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

It should be noted that Contractor's are to appoint electrical and plumbing sub-contractors that are registered with the relevant authority and have the relevant statutory registration

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

Item

3 Offer and Acceptance (clause 3)

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

Item

4 Assignment and Cession (clause 4)

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

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5 Contract Documents (clause 5)
F:..... V:..... T:.....

Item

6 Employer's Agents (clause 6)
F:..... V:..... T:.....

Item

7 Design Responsibility (clause 7)
F:..... V:..... T:.....

Item

INSURANCE AND SECURITY

8 Works Risk (clause 8)
F:..... V:..... T:.....

Item

9 Indemnities (clause 9)
F:..... V:..... T:.....

Item

10 Insurances (clause 10)
F:..... V:..... T:.....

Item

11 Security (clause 11)
Sub-clause 11.4 and 11.5 to be deleted in their entirety
F:..... V:..... T:.....

Item

EXECUTION

12 Duties of the Parties (clause 12)
Sub-clause 12.1.1 to be deleted in its entirety
Sub clause 12.2.6, the words 'fifteen (15)' shall be changed to 'two (2)'
F:..... V:..... T:.....

Item

13 Setting Out (clause 13)
F:..... V:..... T:.....

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14	Nominated Subcontractors (clause 14) F:..... V:..... T:.....	Item	
15	Selected Subcontractors (clause 15) F:..... V:..... T:.....	Item	
16	Direct Contractors (clause 16) F:..... V:..... T:.....	Item	
17	Contract Instructions (clause 17) In addition to the provisions of sub-clause 17.3, contract instructions are to be recorded in triplicate in a contract instruction book, which is to be supplied and maintained on site by the Contractor F:..... V:..... T:.....	Item	
<u>COMPLETION</u>			
18	Interim Completion (clause 18) F:..... V:..... T:.....	Item	
19	Practical Completion (clause 19) F:..... V:..... T:.....	Item	
20	Sectional Completion (clause 20) F:..... V:..... T:.....	Item	
21	Defects Liability Period and Final Completion (clause 21) F:..... V:..... T:.....	Item	
22	Latent Defects Liability Period (clause 22) F:..... V:..... T:.....	Item	

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23 Revision of the Date for Practical Completion (clause 23)

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

Item

24 Penalty for Late or Non-Completion (clause 24)

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

Item

PAYMENT

25 Payment (clause 25)

Clause 25.7 is amended as follows:

The words 'fourteen (14) calendar days of the date for issue of the payment certificate' to be changed to 'thirty (30) calendar days after issue of statement reflective of the said invoice and after issue of the payment certificate and valid tax invoice'.

Clause 25.8 is amended as follows:

The words 'twenty one (21) calendar days of the date for issue of the payment certificate' to be changed to 'thirty (30) calendar days after issue of statement reflective of the said invoice and after issue of the payment certificate and valid tax invoice'.

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

Item

26 Adjustment of the Contract Value and Final Account (clause 26)

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

Item

27 Recovery of Expense and Loss (clause 27)

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

Item

SUSPENSION AND TERMINATION

28 Suspension by the Contractor (clause 28)

Sub-clause 28.1.1 to be deleted in its entirety

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

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29 Termination (clause 29)
Sub-clause 29.14.1 to be deleted in its entirety
F:..... V:..... T:.....

Item

DISPUTE RESOLUTION

30 Dispute Resolution (clause 30)
F:..... V:..... T:.....

Item

CONTRACT DATA

A TENDER INFORMATION

- A1 Project Name:
The upgrade and refurbishment to the existing NHLS Lab at Evander Hospital
- A2 Works Description
The upgrade and refurbishment to the existing NHLS Lab at Evander Hospital
- A3 Site description
2280 Lausanne Rd, Evander, 2280
- A4 Employer: National Health Laboratory Services
Postal address;

Code
Tel
Fax
E-mail

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Preliminaries

**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hospital**

A5 Principal Agent: Creative Axis Architects
Mpumalanga

Postal address PO Box 8038
Bagdad Centre
White River

Code 1240

Tel 013 751 3155

Fax

E-mail

A6 Agent (1): Creative Axis Architects

Agent's service: Architects

Postal address PO Box 8038
Bagdad Centre
White River

Code 1240

Tel 013 751 3155

Fax

E-mail

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A7 Agent (2): Theba Consultants and
Quantity Surveyors

Agent's service: Quantity Surveyors

Postal address P.O. Box 248
Parklands

Code 2121

Tel 011 447 7825

Fax 011 447 4697

E-mail yunus@theba.co.za

A8 Agent (3):

Agent's service: Civil and Structural Engineers

Postal address

Code
Tel
Fax
E-mail

A8 Agent (4):

Agent's service:

Postal address

Code
Tel
Fax

E-mail

B CONTRACT DATA

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2.0 Law, Regulations and Notices

2.0 **Law applicable to this agreement:**

South Africa

5.0 Contract Documents

5.1 Signed contract documents held by the principal agent:

Yes

5.5 Number of copies of documents issued free to the contractor:

3 Copies

Priced document

Priced bills of quantities: Yes

System/method measurement: Standard System of Measurement - Sixth Edition

6.0 Employers Agents

6.3 Description of interest's of agents in the project:

None

10.0 Insurances

By the employer in the joint names of the parties: **Yes**

Contract Works Insurance :

Insured Amount - **Contract Sum**

Free issue material at new replacement value:

Not Applicable

Employer owned surrounding property:

Controlled

Public Liability Insurance: **R 5 000 000.00**

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Supplementary Insurance: **Not Applicable**

Removal of Lateral Support Insurance:
Not Applicable

Policy Deductibles:

- Works Insurance - R 100 000.00
- Employer Owned Surrounding - Not Applicable
- Public Liability - R 10 000.00
- Supplementary Insurance - Not Applicable
- Removal of Lateral Support - Not Applicable

By the contractor in the joint names of the parties: **No**

11.0 Security

The contractor shall provide a Guarantee for Construction to the employer:
Yes

12.0 Duties of the parties = employer = site

9.2.7 Alterations and additions to existing premises:
Yes

12.1.2 Premises occupied -
No, but the site is within the Evander Hospital

12.1.3 Relevant natural features to be retained /
relocated / removed:
Retained

12.1.4 Areas the contractor may not occupy:
**Tenderers are restricted to only the
construction site**

12.1.5 Utilities connections - location:
Will be identified on site

12.1.6 Statutory and/or other notices to be complied
with by the contractor before possession of the
site can be given:
Department of Labour notices

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12.1.7 Possession of the site - intended date:

Date:

12.1.2 Description of free issue by the employer:

Not Applicable

14.0 Nominated subcontractors:

None

16.0 Direct contractors:

None

19/20/24 Practical Completion/Penalty for Late

19/20/24 Practical completion of the works in whole:

Penalty:

Date:

19 Practical Completion

19.1.1 Items that do not have to be complete to achieve practical completion:

Not Applicable

19.1.1 Criteria to achieve practical completion:
The following works are to be completed to achieve practical completion:

List as per Principal Agent

25.0 Payment

25.0 Currency:

ZAR - South African Rand

25.2 Issue of regular payment certificates on:

25th day of the month

25.3.2 Materials and goods off site - paid subject to:

Proof of purchase

25.3.4/ Contract price adjustment provisions:

26.9.5

Not Applicable - Fixed Price

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30.0 Dispute resolution

30.6.1 Alternative Dispute Resolution nominating body:
Association of South African Arbitrators

Changes made to JBCC documentation

Details of changes made to the provision of **JBCC** standard documentation:

Section A

Clause 2	Note added
Clause 11.4 & 11.5	Deleted
Clause 12.1	Deleted
Clause 12.2.6	Sub-clause amended
Clause 17	Note added
Clause 25.7 & 25.8	Sub-clause amended
Clause 28.1.1	Deleted
Clause 29.14.1	Deleted

C TENDER CLOSING

Tender closing:

Tender closing time:

Tending closing venue:

Submission Address:

Delivered in electric format:

Alternate offer considered : **Not Applicable**

D TENDERERS SELECTION

11.0 Securities

11.1.2 Guarantee for Construction (variable):

11.1.3 Guarantee for Construction (fixed):

11.1.4 Guarantee for Advance Payment:

11.1.2 Guarantee for Payment: **Not Applicable**

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19.0 Contractor's holiday periods

Contractor's annual holiday period:
Not Applicable

26.0 Payment/Adjustment of Preliminaries

Payment of Preliminaries:
Option A

Adjustment of Preliminaries:
Option A

SECTION B: SPECIFIC PRELIMINARIES

31 General Preambles (B1)

The document Model Preambles for Trades shall be read in conjunction with these bills of quantities and shall be referred to for the full description of work to be done and materials to be used

Where additional preambles appear in these bills of quantities or where descriptions of items deviate from the Model Preambles for Trades, such additional preambles or deviations will take precedence over the Model Preambles for Trades

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

Item

32 Pricing and rates (B2)

All prices or rates inserted in these bills of quantities shall, unless otherwise stated, include for materials, duty, taxes other than Value Added Tax (VAT), making, conveyance and delivery, unloading, storing, unpacking, hoisting, labour setting, fitting and fixing in position, cutting and waste, patterns, models and templates, plant, temporary works, return of packings, establishment charges, profit and all other obligations arising from the Principal Building Agreement

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

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Bill No. 1
Preliminaries

33 Labour records (B3)

At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and of all subcontractors on the Works each day

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

Item

34 Plant records (B4)

At the end of each week the Contractor shall provide the Principal Agent with a written record, in schedule form, reflecting the number, type and capacity of all plant, excluding hand tools, currently being used on the Works

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

Item

35 Ordering of materials (B5)

The Contractor shall place orders timeously for materials or special articles that are required. Should these bills of quantities be used for ordering materials, this shall be entirely at the Contractor's risk.

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

Item

36 Jobbing (B6)

Each trade shall perform all necessary jobbing and attendance and shall make good after all other trades

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

Item

37 As built drawings (B7)

The position of construction breaks and the extent of individual concrete pours are to be recorded by the Contractor on the structural engineering drawings and are to be submitted to the Principal Agent for record purposes

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

Item

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Bill No. 1
Preliminaries

Upgrade and Refurbishment of Existing NHLS Laboratory at Evander Hospital

38 Damage to existing buildings and/or structures, etc. (B8)
Any damage whatsoever to the existing buildings and/or structures, etc. from building operations during the construction period shall be rectified to the approval of the Principal Agent at the Contractor's expense
F:..... V:..... T:.....

Item

39 Guarantees (B9)
The contractor shall obtain written guarantees where called for, addressed to the employer, from the firms supplying the materials or doing the work and deliver such guarantees to the principal agent.
The guarantees shall state that workmanship, materials and installation are guaranteed for a specified period reckoned from the date of practical completion of the works and that any defects in the workmanship, materials and installation that may arise during that period shall be made good at the expense of the firm doing the work upon written notice from the principal agent or the employer to do so.
F:..... V:..... T:.....

Item

40 Overtime (B10)
The additional costs of overtime work shall be for the employer's account only when prior written agreement thereto is given by the principal agent.
F:..... V:..... T:.....

Item

41 Copyright (B11)
The ownership of the copyright in and to: all drawings, specifications, models and documents of any nature delivered to the contractor or produced by or on behalf of the contractor in connection with the works; and, the artistic character and/or artistic design of the works, shall remain vested in and/or is hereby assigned to the employer by the contractor.
F:..... V:..... T:.....

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Bill No. 1 Preliminaries

**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hospital**

42 Accommodation (B12)

Tenderers are to note that no on-site accommodation will be allowed during the period of construction, but adequate building site security is to be provided.

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

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**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hospital**

Bill No. 1

Preliminaries

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Bill No. 1
Preliminaries

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.2</u></p> <p><u>ALTERATIONS</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Old materials to become property of the Contractor</u></p> <p>Old materials from alterations except where described to be re-used or handed over, become the property of the Contractor who must allow credit for same in the Final Summary.</p> <p><u>Old material to be carted away</u></p> <p>Old material from the alterations except where described to be re-used or handed over, as well as all rubbish, etc must be regularly carted away from the site and not be allowed to accumulate on or around the site. The cost of cart away shall be borne by the contractor.</p> <p><u>Old materials not to be used</u></p> <p>None of the old materials are to be used for new work except where specially described as being set aside for re-use.</p>			
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	Bill No. 2 Alterations			

Handing over of old materials

Where certain materials or articles from demolitions or articles are described as to be handed over by the Contractor to the Agent, such materials or articles shall be properly stored by the contractor, until handing over thereof. The contractor must obtain as official receipt listing the materials or articles and dates of handing over. If the contractor fails to submit the receipt when requested, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Employer for the full replacement value thereof, which amount will be deducted from any monies due to the contractor.

Work in existing buildings

Tenderers are notified that the buildings are presently occupied by the employer, who have the right to take out and remove their own furniture, fixtures and fittings before vacating the premises. The electrical light and power, air conditioning and telephone systems and fittings shall not be disconnected or disturbed in any way by the Contractor, but due notice shall be given to the Engineer's representative, who will make the necessary arrangements for the removal, alterations, etc thereto. The Contractor shall be liable for any damage to this work and shall make same good at his own expense.

The removal of and alterations to the electrical and air conditioning installations shall be executed by a sub-contractor (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such with his own work.

In taking down and removing existing work, the utmost care shall be observed to avoid any structural or other damage to the remaining portions of the building. The Contractor shall cover up and protect from damage all work not removed and shall make good at his own expense any damage that may occur.

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Bill No. 2
Alterations

R

The Contractor shall provide and erect all casings and protection for and cover up all existing fittings, doors, windows, joinery work, walls, floors, etc not disturbed during the alterations and clear away and make good on completion.

Prices for the demolition of any portion of the structure, shall include for its demolition complete, with all surface finishes such as plaster, screeds, etc, all attached items of joinery such as skirtings, etc and all reinforcement, conduits, pipes, lintels, etc built into that portion of the structure

Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trims.

TEMPORARY BARRIERS, SCREENS, ETC

Temporary barriers, screens, etc including removal

1	Drywall barrier 2,7m high formed of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc	m	9
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DEMOLITIONS ETC

REMOVAL OF EXISTING

Break down and removing brickwork etc

2	Half brick wall	m2	9
3	One brick wall	m2	60

Break down and removing concrete etc

4	Concrete surface beds, ramps, etc	m3	2
5	Concrete step	m3	1

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Bill No. 2
Alterations

R

**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hopsital**

<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>					
6	Vinyl floor covering including preparing screed for new floor finish	m2	56		
<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>					
7	200 x 200mm Tiles to walls	m2	4		
<u>Taking down and removing walls, etc</u>					
8	Take down and remove dry wall partition	m	11		
<u>Taking down and removing roofs, ceilings, etc</u>					
9	IBR roof covering	m2	75		
10	Suspended flush plastered ceiling including suspension grid, hangers, etc	m2	56		
11	Complete existing timber roof truss system approximately 75m2			Item	
<u>Carefully taking out and removing joinery fittings etc</u>					
12	800mm Wide existing cupboards, approximately 900mm high	m	51		
13	800mm Wide existing cupboards, approximately 2500mm high	m	9		
<u>Taking out and removing sundry fittings etc</u>					
14	Timber single door and steel frame 813 x 2 032mm high overall	No	6		
15	Steel windows size approximately 300 x 650mm high	No	1		
16	Steel windows size approximately 1300 x 1000mm high	No	9		
17	Remove various size signage to building	No	19		
18	Strip and remove existing fire equipment			Item	
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Bill No. 2 Alterations					R

**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hopsital**

19	Timber skirting on walls	m	76
20	Take down and remove blinds approximately 1200 x 1300	No	11
21	Take down and remove mirror size 500 x 500	No	2
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall</u>			
22	22mm Galvanised steel piping including fittings and brackets	m	22
23	50mm Galvanised steel piping including fittings and brackets	m	19
24	110mm Galvanised steel piping including fittings and brackets	m	9
25	50mm PVC piping including fittings and brackets	m	12
26	WC	No	1
27	Wash hand basin	No	3
28	Stainless steel sink	No	2
<u>Making good floors</u>			
29	Making good defects in existing screeded floors with pavelite to falls and currents	m2	56
<u>Making good plaster with one coat internal cement plaster and rhinolite</u>			
30	On walls in patches	m2	35
<u>BUILDING UP OPENINGS</u>			
<u>Making good walls with one coat internal cement plaster and one coat rhinolite</u>			
31	On walls in making good	m2	53

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Alterations

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**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hopsital**

Bill No. 2

Alterations

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Bill No. 2
Alterations

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.3</u></p> <p><u>FOUNDATIONS</u></p> <p><u>NOTE:</u> Tenderers are advised to study the relevant clauses in the seperate document Specifications of Materials and Methods to be used (PW371/1993) before pricing this bill</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Nature of material to be excavated</u></p> <p>A geotechnical report has been carried out on site by the engineer and the report is annexed to these bills of quantities. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p> <p><u>Carting away of excavated material</u></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <p><u>Subterranean water</u></p> <p>No information regarding subterranean water is available. The tenderer must acquaint himself of the presence and depth of subterranean water and allow therefor in his prices</p> <p style="text-align: center;">_____</p>			
	<p><u>EARTHWORKS</u></p> <p style="text-align: center;">Carried to Collection</p> <p>Bill No. 3 Foundations</p>		R	

<u>EXCAVATION, FILLING, ETC</u>				
<u>Excavation in earth or compacted filling and stockpile on site</u>				
1	Over site to form platforms	m3	111	
<u>Excavation in earth or compacted filling not exceeding 2m deep</u>				
2	Trenches	m3	32	
<u>Extra over all excavations for carting away</u>				
3	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	56	
<u>Risk of collapse of excavations</u>				
4	Sides of trench and hole excavations not exceeding 1,5m deep	m2	104	
<u>Keeping excavations free of water</u>				
5	Keeping excavations free of water other than subterranean water		Item	
<u>Selected earth filling obtained from the excavations and/or prescribed stock piles on site in layers of 150mm thick compacted to 93% Mod AASHTO density</u>				
6	Backfilling to trenches, holes, etc	m3	16	
<u>Earth filling supplied by the contractor of G5 quality material in layers of 150mm thick compacted to 95% Mod AASHTO density</u>				
7	Under floors, pavings, etc	m3	39	
<u>Compaction of surfaces</u>				
8	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	131	
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<u>Prescribed density tests on filling</u>				
9	"Modified AASHTO Density" test	No	5	
<u>PROTECTION AGAINST TERMITES</u>				
<u>Protection against termites</u>				
10	Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming	m2	131	
11	To bottoms and sides of trenches, etc	m2	136	
<u>CONCRETE</u>				
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>				
<u>30 MPa concrete</u>				
12	Strip footings	m3	8	
<u>Test Blocks</u>				
13	Making and testing set of three 150 x 150 x 150 mm strength test cubes	No	4	
<u>REINFORCEMENT</u>				
<u>Mild steel bar reinforcement to structural concrete work</u>				
14	8mm Diameter bars	t	1	
15	10mm Diameter bars	t	0.4	
<u>MASONRY</u>				
<u>Brickwork in SABS approved NFP bricks in 3:1 cement mortar in loadbearing walls, etc</u>				
16	One brick walls	m2	36	
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**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hopsital**

Brick reinforcement

17	150mm Wide reinforcement built in horizontally	m	106
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Foundations

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**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hopsital**

Bill No. 3

Foundations

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Bill No. 3
Foundations

Item No		Quantity	Rate	Amount
	<u>BILL NO.4</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	NOTE: Tenderers are advised to study the relevant clauses in the seperate document Specifications of Materials and Methods to be used (PW371/1993) before pricing this bill			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>25MPa/19mm Concrete</u>			
1	In Aprons	m3	20	
2	In ramps	m3	2	
	<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>30MPa/19mm Concrete</u>			
3	In Surface beds cast in panels	m3	11	
	<u>Concrete test cubes</u>			
4	Making and testing set of three 150 x 150 x 150mm concrete strength test.	No	6	
	<u>Finishing top surface of concrete smooth with wooden float in</u>			
5	Surface beds, slabs, etc	m2	136	
	<u>MOVEMENT JOINTS</u>			
	Carried to Collection			R
	Bill No. 4 Concrete, Formwork and Reinforcement			

	<u>Saw cut joints</u>			
6	3 x 50mm Deep saw cut joints cut raked out to 6mm wide x 15mm deep and sealed with 6 x deep polysuphide sealant with backing strip (Elsewhere measured)	m	36	
	<u>REINFORCEMENT</u>			
	<u>Mesh reinforcement</u>			
7	Type 193 fabric reinforcement in concrete surface beds, slabs, ramps, etc	m2	131	
	Carried to Collection			R
	Bill No. 4 Concrete, Formwork and Reinforcement			

**Upgrade and Refurbishment of
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Bill No. 4

Concrete, Formwork and Reinforcement

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Bill No. 4

Concrete, Formwork and Reinforcement

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.5</u></p> <p><u>MASONRY</u></p> <p>NOTE: Tenderers are advised to study the relevant clauses in the seperate document Specifications of Materials and Methods to be used (PW371/1993) before pricing this bill</p>			
	<p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Sizes in descriptions</u></p> <p>Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick</p> <p><u>Wall ties</u></p> <p>Descriptions of solid walls (except if built in English bond) and cavity walls shall be deemed to include metal wall ties complying with SABS 28 and of the butterfly or of the modified PWD type, of the required length with each end built at least 75mm deep into brickwork, spaced at not more than 1m centres alternatively to every third course of brickwork</p> <p><u>Face bricks</u></p> <p>Bricks shall be ordered timeously to obtain uniformity in size and colour</p> <p><u>Pointing</u></p> <p>Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.</p>			
	<p><u>SUPERSTRUCTURE</u></p>			
	Carried to Collection			
	Bill No. 5 Masonry		R	

<u>Brickwork of NFX bricks (14 MPa nominal compressive strength) in class II mortar</u>				
1	Half brick walls	m2	34	
2	Half brick wall to beam filling	m2	35	
3	One brick walls	m2	76	
<u>Brickwork reinforcement</u>				
4	75mm Wide reinforcement built in horizontally	m	100	
5	150mm Wide reinforcement built in horizontally	m	223	
<u>Prestressed fabricated lintels</u>				
6	110 x 75mm Lintels in length not exceeding 3m	m	55	
<u>Hoop irons, wall ties, etc.</u>				
7	30 x 1.6mm Wall tie 500mm with one end cast into concrete and other end built into brickwork	No	29	
<u>Movement joints</u>				
8	Movement joint formed of 20mm softboard built in vertically between brickwork	m	29	
<u>FIBRE CEMENT</u>				
<u>15mm Thick Everite Nutec window internal sill, installed below window with window sill lug screwed to underside of sill at 400mm centres, minimum of 75mm from end of window sill and bedded in Class II mortar with plastic slip joints at end of sills at plaster reveals and projecting from the finished face of wall, all in accordance with the manufacturer's recommendations</u>				
9	150mm Wide cill set flat	m	18	
<u>FACE BRICKWORK</u>				
Carried to Collection				
Bill No. 5 Masonry				R

External facebrick (PC R5000/1000 delivered to site, excluding VAT) pointed with square recessed horizontal and vertical joints

10	Extra over ordinary brickwork for facing and pointing in stretcher bond	m2	76
11	Extra over ordinary brickwork in beamfilling for facing and pointing in stretcher bond	m2	35
12	Face brick-on-edge flat lintel course in cement mortar 220mm wide on soffit and pointing on 110mm wide projecting soffit and one side	m	25
13	Cut face brick-on-edge external window cill, 180mm wide, set sloping and slightly projecting in cement mortar and pointed on top, front edge and projecting soffit including all necessary fair raking cutting to facings under and fair and fitted ends	m	18

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Masonry

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Bill No. 5

Masonry

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Bill No. 5
Masonry

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.6</u></p> <p><u>WATERPROOFING</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p>			
	<p><u>DAMPPROOFING OF WALLS AND FLOORS</u></p>			
	<p><u>One layer of type 375 micron Consol Plastics Brikgrip DPC embossed damp proof course</u></p>			
1	In walls	m2	11	
	<p><u>One layer of 250 micron consol plastics gunplas USB green waterproofing sheeting sealed at laps with gunplas pressure sensitive tape</u></p>			
2	Under surface beds	m2	131	
	Carried to Summary			
	Bill No. 6 Waterproofing			R

4mm Alucushion®/Bubblefoil® FR (fire retardant grade) double-sided aluminium foil insulation (Code: 1983) complying with SANS 428:2007, laid on top of timber rafters before fixing of brandering, commencing at the eaves, ensuring subsequent sheets overlap the previous sheet by 100mm.

4	Insulation laid over timber rafters	m2	204
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Bill No. 7
Roof Covering

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Upgrade and Refurbishment of
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Bill No. 7

Roof Covering

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Bill No. 7
Roof Covering

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.8</u></p> <p><u>CARPENTRY AND JOINERY</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Joinery</u></p> <p>Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc</p> <p>Fixing</p> <p>Items described as nailed shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete</p> <p><u>Decorative laminate finish</u></p> <p>Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish</p> <p>-----</p> <p><u>FIRE RATED DOORS INCLUDING FRAMES</u></p> <p><u>44mm Solid laminated half hour class A flush panel doors with commercial veneer face both sides and two wrought meranti concealed vertical edge strips hung to and including approved steel frame</u></p>			
1	Single door 813 x 2032mm high	No	6	
	<p><u>SOLID DOORS</u></p>			
	Carried to Collection			R
	Bill No. 8 Carpentry and Joinery			

**Upgrade and Refurbishment of
Existing NHLS Laboratory
at Evander Hopsital**

**44mm Thick meranti solid core flush panel doors
with concealed hardwood edge strips with
hardwood veneer facing on both sides and hung to
aluminium frames (aluminium frames elsewhere)**

2	Single door 813 x 2100mm high	No	8
3	Single door 1000 x 2100mm high	No	1
4	Single door 1600 x 2100mm high	No	1

Carried to Collection

Bill No. 8
Carpentry and Joinery

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**Upgrade and Refurbishment of
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Carpentry and Joinery

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Bill No. 8
Carpentry and Joinery

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.9</u></p> <p><u>CEILING AND PARTITIONS</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>Descriptions</u></p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> <p>-----</p> <p><u>FLUSH PLASTERED CEILINGS</u></p>			
	Carried to Collection			R
	Bill No. 9 Ceilings and Partitions			

Flush plastered plasterboard ceiling formed of 6.5mm square edged gypsum plaster board screwed to concealed galvanised suspension tee grid system with drywall screws spaced at 150mm centres. Suspension grid system consisting of main tees spaced at 1200mm centres and cross tees spaced at 300mm centres, with and including 4mm diameter suspension wires and rods, wall angles, suspension clips, suspension plates, etc. All joints finished off with 48mm wide strips of suitable tape fixed over joints and the. The whole finished and skimmed with Rhinoglaze with all excess compound to be feathered out and cleaned off, all to manufacturers instructions.

1	Ceilings suspended not exceeding 2m below timber trusses	m2	154
2	Extra over ceiling for 600 x 600mm opening for ventilation grille/air conditioning diffuser	No	11
3	Extra over ceiling trap door comprising of Matt White epoxy coated aluminium T-frame with 580 x 580mm White epoxy coated steel top hinged pan, fitted flush to flush plaster timber branded ceiling, screw fixed through stalk of T-profile frame into prepared ceiling structure material.	No	4
<u>Rhino gypsum plasterboard cornices</u>			
4	75mm Coved cornices	m	93
<u>Shadowline cornices</u>			
5	LSM25 trim shadowline cornice	m	93

Carried to Collection

R

Bill No. 9
Ceilings and Partitions

PARTITIONS ETC

Rhino-Drywall partitioning shall comprise steel studding formed of 63,5mm top and bottom tracks and aluminium top cap, with vertical studs at maximum 600mm centres, friction fitted or pop-riveted to the top and bottom tracks with similar additional vertical studs as necessary at abutments, ends, etc and covered as described with wallboard screwed to studding with Drywall screws at maximum 220mm centres. Boards are to be butt jointed and finished with Rhino tape and Readymix D jointing compound all in accordance with the manufacturer's instructions. Intersections and abutments are measured separately and descriptions shall be deemed to include any additional studs, corner beads, jointing compound, tape, etc

Rhinowall Moisture Resistant Plasterboard System steel stud partitions with both sides clad with one layer of 15mm Moisture Resistant Board and 50mm thick Owens Corning IM475 insulation blanket between boards

6	Partitions 2 500mm high with bottom and top tracks plugged	m	56
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Extra over partitions

7	Extra over partition 2 500mm high for fair end with aluminium channel	No	17
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8	Extra over partition 2 500mm high for vertical abutment	No	6
---	---	----	---

9	Extra over partition 2 500mm high for corner	No	2
---	--	----	---

10	Extra over partition for aluminium door frames size 813 x 2023mm high	No	9
----	---	----	---

11	Extra over partition for aluminium double door frames size 1 630 x 2023mm high	No	1
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Bill No. 9
Ceilings and Partitions

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**Upgrade and Refurbishment of
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Bill No. 9

Ceilings and Partitions

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Bill No. 9
Ceilings and Partitions

Item No		Quantity	Rate	Amount
	<u>BILL NO.10</u>			
	<u>FLOOR COVERINGS</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			

	<u>FLOOR COVERINGS</u>			
	<u>Polyflor standard XL flexible vinyl floor sheeting in slate grey finish, laid in solvent based contact adhesive applied by means of a brush or paint roller on pavelite floors (elsewhere measured), with joints welded with a fully flexible coloured rod to provide a smooth, hygienic sealed finish and rolled on completion, all as per manufacturer's instruction</u>			
1	On floors	m2	142	
2	Turn-ups 65mm high including capping strip, and sheeting	m	81	
	Carried to Summary			R
	Bill No. 10 Floor Covering			

Item No		Quantity	Rate	Amount
	<u>BILL NO.11</u>			
	<u>IRONMONGERY</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Where ironmongery is described as plugged, prices are to include for screwing to and including approved patent plugs in concrete or brickwork with plaster or tiled finish			
	<u>SANITARY ACCESSORIES</u>			
1	0.8mm Stainless steel satin finish touch free soap dispenser built into wall and finished flush with wall tiles, electric sensor RODX625	No	2	
2	0.8mm Stainless steel satin finish double toilet holder with spindle system RODX627 built into wall and finished flush with wall tiles	No	2	
3	0.8mm Stainless steel satin finish electronic paper towel dispenser RODX630	No	2	
4	0.8mm Stainless steel satin finish hygiene dispenser RODX191 built into wall and finished flush with wall tiles	No	2	
5	0.8mm Stainless steel satin finish single towel rail BHM9P	No	2	
6	Stainless steel satin finish double arm soap rack BHM6P	No	2	
	Carried to Summary			R
	Bill No. 11 Ironmongery			

Item No	Quantity	Rate	Amount
<u>BILL NO.12</u>			
<u>METALWORK</u>			
<p><u>NOTE:</u> Tenderers are advised to study the relevant clauses in the separate document Specifications of Materials and Methods to be used (PW371/1993) before pricing this bill</p>			
<u>PRESSED STEEL DOOR FRAMES</u>			
<u>1,2mm Double rebated frames suitable for half brick walls</u>			
1	Frame for door 813 x 2 032mm high	No	4
<u>1,2mm Double rebated frames suitable for one brick walls</u>			
2	Frame for door 813 x 2 032mm high	No	3
<u>ALUMINIUM WINDOWS AND DOORS</u>			
Carried to Collection			R
Bill No. 12 Metalwork			

SUPPLEMENTARY PREAMBLES

Note: All rates in this bill are to include for supply and installation complete with grounds, framing, sealants, glazing, powder coating, anodising, stays, hinges, catches, handles, mullions, locking mechanisms to opening window sections, doors, frames and sub-frames, fixing only of ironmongery and furniture to doors, etc as requested by the specification, schedules and drawings

Note: All quantities are provisional and will be remeasured on completion

Note: All sizes in this bill are approximate and may be varied slightly to suit the tenderer's standard sections. Should there be any discrepancy in size between the bill and the schedules, the latter shall be deemed to be correct

Note: Unless otherwise stated herein prices are to include for steel sub-frames to all windows and doors

Note: All glazing are to be in accordance with AAAMSA and SAGA regulations

Note: All door types are based on drawings issued with the tender documents

Note: All doors shall be deemed to include ironmongery approved by Architect.

Note: The tenderer is to provide shop drawings for approval by the Architect prior to manufacture

Note: All structural steel required for the installation will be provided by others, unless the steel is intergral with the aluminium works installations

Note: The tenderer is required to provide a schedule for the glazing priced.

NATURAL ANODISED ALUMINIUM WINDOWS WITH BURGLAR BARS

Carried to Collection

Bill No. 12
Metalwork

R

	<u>Natural anodised aluminium, brown in colour by Crealco Aluminuim or similar approved manufacture, glazed with 4mm obscure float glass, including burglar proofing as per architects specification</u>		
3	Window size 600 x 900mm high - W1	No	4
	<u>Natural anodised aluminium, brown in colour by Crealco Aluminuim or similar approved manufacture, glazed with 4mm clear float glass, including retractable burglar bars as per architects specification</u>		
4	Window size 1200 x 600mm high - W2	No	1
5	Window size 1200 x 900mm high - W3	No	3
6	Window size 1200 x 1200mm high - W4	No	9
	<u>Natural anodised aluminium, brown in colour by Crealco Aluminuim or similar approved manufacture, glazed with 4mm clear float glass</u>		
7	Window size 1800 x 900mm high - W5	No	2
	<u>NATURAL ANODISED ALUMINIUM DOORS</u>		
	Note: All glazing to comply with SAGGA and SANS 10400.		
	<u>Natural anodised aluminium doors, sidelights and fanlights glazed with Micron tempershield tinted toughened safety glass and plugged to brickwork, concrete, etc</u>		
8	Single door size 813 x 2100mm high - D1	No	2

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Bill No. 12
Metalwork

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Upgrade and Refurbishment of
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Bill No. 12

Metalwork

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Bill No. 12
Metalwork

Item No		Quantity	Rate	Amount
	<u>BILL NO.13</u>			
	<u>PLASTERING</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	Screeds with a compressive strength of 35MPa shall be deemed to include for self levelling epoxy cement floor topping with minimum and maximum thickness of 1,5 to 3mm			
	The self levelling epoxy cement will consist of a cement based epoxy modified, three component, self levelling floor topping and should be executed by a firm of specialists in accordance with the manufacturer's specification			
	<u>SCREEDS</u>			
	<u>1:3 Cement plaster screeds on concrete</u>			
1	30mm Thick on floors with steel trowelled finish	m2	99	
	<u>INTERNAL PLASTER</u>			
	<u>One coat 1:5 cement plaster on brickwork</u>			
2	On walls	m2	73	
3	On narrow widths	m2	1	
	<u>One coat 1:4 cement plaster and one coat rhinolite plaster finish on brickwork</u>			
4	On walls	m2	312	
	Carried to Collection			R
	Bill No. 13 Plastering			

**Upgrade and Refurbishment of
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5	On narrow widths	m2	7
<u>Apply rhinolite to:</u>			
6	On dry walls	m2	291

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Bill No. 13
Plastering

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**Upgrade and Refurbishment of
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Plastering

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Bill No. 13
Plastering

Item No		Quantity	Rate	Amount
	<u>BILL NO.14</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	<i>For preambles refer to "General Specification of Materials and Methods to be used for Building Contracts" (GP/ASC)</i>			
	Note: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group no 144 for CPAP purposes			
	<u>FLOOR TILING</u>			
	<u>300 x 300 x 8mm Thick Porcelain floor tiles (PC amount R450.00 / m2, excluding VAT, but including delivery), bedded in and including Tal Goldstar 6 adhesive, Tal Keycoat primer and Tal fine epoxy grouting to joints</u>			
1	On floors	m2	9	
2	150mm High cut skirting tile	m	26	
	<u>23 x 23 x 4mm Porcelain mosaic tiles (PC amount R800.00 / m2, excluding VAT, but including delivery) fixed with Goldstar fast setting adhesive to suitably prepared screed and flush pointed with Prostruct 618/22 epoxy mortar and grouting to joints</u>			
3	On shower floors to falls and currents	m2	3	
	<u>WALL TILING</u>			
	Carried to Collection			R
	Bill No. 14			
	Tiling			

**Upgrade and Refurbishment of
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**200 x 300 x 6mm thick White glazed ceramic tiles
(PC amount R 250.00 / m2, excluding VAT, but
including delivery) fixed with waterproof adhesive to
plastered walls and waterproof tile grouting to joints**

4	On walls	m2	73
5	On splash backs	m2	15
6	On narrow widths	m2	5
7	Fair exposed cutting and fitting around pipe not exceeding 50mm internal diameter	No	5
<u>Kirk Marketing or equal and approved</u>			
8	Type ASE090 Straight edge aluminium trim to tops of tiles	m	36

Carried to Collection

Bill No. 14
Tiling

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Upgrade and Refurbishment of
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Bill No. 14

Tiling

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Bill No. 14
Tiling

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.15</u></p> <p><u>PLUMBING AND DRAINAGE</u></p> <p>NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill</p> <p>-----</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p><u>UPVC pipes and fittings</u></p> <p><u>Soil, waste and vent pipes and fittings shall be solvent weld jointed</u></p> <p><u>UPVC pressure pipes and fittings</u></p> <p>Pipes for water supply shall be of the Class stated</p> <p>Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 50mm diameter and greater shall have sockets and spigots with push in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>Copper pipes</u></p> <p>Pipes shall be hard drawn and half-hard pipes of the class stated. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall be "Cobra Watertech" type. Capillary solder fittings shall comply with ISO 2016. Only compression fittings shall be used in walls or in ground</p> <p style="text-align: right;">Carried to Collection</p> <p>Bill No. 15 Plumbing and Drainage</p>			R

Fixing of pipes

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

Reducing fittings

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

Wire gratings

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

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gully tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster

Flush pans

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

Waste unions

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

SOIL DRAINAGE

Carried to Collection

Bill No. 15
Plumbing and Drainage

R

Testing

8 Pressure testing waste pipe system

Item

SANITARY PLUMBING

HDPE waste and ventilation pipes, with plain ended pipes and fittings, joint with electro welding, suspended from slabs not exceeding 1m below slab, including all hangers, brackets, etc.

9 50mm Pipes fixed to walls or soffits

m

16

10 110mm Pipes fixed to walls or soffits

m

7

Extra over HDPE pipes for fittings

11 50mm Stop end cap

No

5

12 50mm Bend

No

4

13 50mm Y-branch fitting

No

2

14 50mm Ring seal socket

No

3

15 110mm Bend

No

4

16 110mm Access pipe with opening

No

2

17 110mm Y-branch fitting

No

1

18 110 x 50mm Reducing branch fitting

No

8

19 110mm Ring seal socket

No

3

20 110mm Pan connector

No

2

21 110mm PVC two way vent valve

No

2

Carried to Collection

R

Bill No. 15
Plumbing and Drainage

	<u>Sundries</u>				
22	Gulley not exceeding 1000mm deep to invert comprising 100mm diameter vitrified clay gulley trap and head, fitted with 190mm diameter cast iron grating, including excavating for, bedding on and encasing in 15MPa/19mm mass concrete and fitted with and including precast gulley top bedded in (3:1) cement mortar	No	2		
	<u>Testing</u>				
23	Pressure testing waste pipe system			Item	
	<u>SANITARY FITTINGS</u>				
	<u>Franke stainless steel fittings</u>				
24	Franke Luxtub DLT inset washtrough size 600 x 450mm fitted into worktop	No	1		
25	Franke Curvline CVN621 double bowl inset sink size 1235 x 435mm fitted into worktop	No	1		
26	Franke Nouveau Model NVN611 Grade 304 18/10 polished stainless steel single end bowl inset sink code 811023, overall size 800 x 460mm with one 340 x 370 x 149mm deep bowl, fitted onto marble slab (elsewhere specified) including PVC trap (trap elsewhere specified) with 90mm waste fitting, plugs and chains	No	4		
27	Franke CH351350 wall mounted slop hopper with integral side and back splashback and grid size 540 x 565 x 545mm, with flushpipe and including brackets	No	1		
28	Franke model BS401 (900x900x75mm deep) pressed shower tray grade 304 18/10 stainless steel, 1.2mm gauge, with radiused corners and a patterned base with 40mm apron all around and 38mm BSP integrated outlet system	No	2		
	Carried to Collection				
	Bill No. 15 Plumbing and Drainage				R

<u>Vaal</u>				
29	Vitreous china wash hand vanity basin size 510 x 405mm rounded 'Hebiscus' basin with two tapholes and with back skirting and weir type overflow on white enamel semi concealed cantilever C.I. brackets fixed to wall with 6mm bolts, including waste outlet, integrated overflow, chain stay and anti-theft plug with spindle on floor mounted pedestal, as per manufacturers instruction including all brackets, sealing etc.	No	8	
30	Vitreous china 'KLIP' 104° outlet washdown pan with pedestal (code 400010) and matching 9 liter cistern (code 710533) complete with lid and fitments, fixed on and including floor bracket, all in accordance with manufactures instruction	No	2	
31	Vitreous china wall mounted urinal overall size 600 x 385 x 380mm code 704001 including 38mm chromium plated domical grating code 8787 and chromium plated top inlet spreader, and top hanger brackets automatic electronic flush valve, fixed on and including two hanger brackets code 8127Z0 and urinal division code 705228 fixed with and including fixing screws and hanger bracket	No	1	
<u>Broen</u>				
32	Emergency shower comprising of one 18 510.009 broen bench mounted hole mixer with swivel spout nd detachable nozzle, one 08 500.009 broen mixer for bench mounting with swivel spout and detachable nozze, and one 17 956.009 broen body shower with eye/face shower and bowl, in brass and SS with chemical resistant red broen and polycoat with self-draining shower head. Eye wash with built-in flowfix for regulation of water floor (26l/min). bowl in stainless steel with intergrated outlet	No	1	
<u>WASTE UNION</u>				
<u>Cobra</u>				
33	Cobra 323 shower waste rough brass screwed male with 75mm diameter chromium plated shower grating	No	2	
34	Cobra 316 sink waste chromium plated with 70mm diameter flange and 45mm long shank slotted	No	2	
Carried to Collection				
Bill No. 15 Plumbing and Drainage				R

35	Cobra 301 basin waste chromium plated with 62mm diameter flange and 80mm long shank slotted	No	8	
	<u>TRAPS, ETC</u>			
	<u>Rubber trap</u>			
36	40mm Butyl rubber deep seal P or S trap	No	8	
	<u>Cobra</u>			
37	Cobra 32mm chromium plated anti-vac bottle trap	No	8	
38	40mm Cobra 373 shallow seal shower "P" trap with cleaning eye and chrome grating	No	2	
	<u>TAPS, VALVES, ETC</u>			
	<u>Cobra</u>			
39	Cobra 232 15mm angle regulating valve	No	26	
40	Cobra watertech 15mm chrome plated elbow action raised nose pillar tap with blue and red indicator for hot and cold water	No	8	
41	Cobra Watertech 15mm chrome plated movable swan neck with serrated nozzle action pillar tap mixer with blue and red indicator for hot and cold water for sink	No	4	
42	KP2.6 Single function vandal resistant chromium plated shower head	No	1	
43	Cobra Zambezi stainless steel satin finish shower mixer with blue and red indicator for hot and cold water built into wall and finished flush with wall tiles	No	1	
	<u>WATER SUPPLY</u>			
	<u>Geberit Mepla multi layer supply pipes and fittings fixed in accordance to manufacturer's instructions</u>			
44	20mm Pipes	m	80	
45	40mm Pipe laid in/under floors or fixed to walls, slabs, roof timbers, etc.	m	39	
	Carried to Collection			
	Bill No. 15 Plumbing and Drainage			R

<u>Extra over Geberit Mepla multi layer pipes for compression fittings</u>			
46	20mm Fitting	No	72
47	40mm Fittings	No	29
<u>Testing</u>			
48	Testing water pipe system		Item
<u>LABORATORY PLUMBING</u>			
Acid and alkali resistant plumbing system in polypropylene pipes with mechanical joints and pipe couplings, wall clamps, etc. at centres as prescribed by the manufacturer			
<u>Polypropylene pipes and fittings</u>			
49	38mm Pipe laid in/under floors or fixed to walls, slabs, roof timbers, etc.	m	75
<u>Extra over polypropylene pipes for fittings</u>			
50	38mm Elbow	No	33
51	38mm Adaptor of polypropylene to mild steel pipe	No	15
<u>Traps, etc</u>			
52	50mm Waste with plug and strainer	No	5
<u>PIPE PROTECTION</u>			
<u>Thermaflex cross-linked polyethylene foam pipe insulation minimum 20mm thick</u>			
53	Insulation to 20mm pipe and fittings	m	36
54	Insulation to 38mm pipe and fittings	m	38
Carried to Collection			
Bill No. 15 Plumbing and Drainage			R

**Upgrade and Refurbishment of
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Bill No. 15

Plumbing and Drainage

COLLECTION

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Bill No. 15

Plumbing and Drainage

Item No		Quantity	Rate	Amount
<u>BILL NO.16</u>				
<u>GLAZING</u>				
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			
<u>PANELS, MIRRORS, ETC</u>				
	<u>Mirrors of 6mm thick silvered GG quality polished float glass with rounded and polished edges and splayed corners with four holes and screwed to and including approved patent plugs in plastered or tiled wall with countersunk steel screws tap-threaded for and including screw type chromium plated dome-headed caps and felt washers</u>			
1	300 x 600mm High	No	2	
	Carried to Summary		R	
	Bill No. 16 Glazing			

Item No		Quantity	Rate	Amount
	<u>BILL NO.17</u>			
	<u>PAINTWORK</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			

	<u>ON PREVIOUSLY PAINTED METAL</u>			
	<u>Prepare the previously painted surface, spot primer defects with zinc chromate primer, one universal undercoat and two coats Plascon Velvagio enamel paint</u>			
1	On pressed steel door frames	m2	1	
	<u>PAINT ON PREVIOUSLY PAINTED PLASTERED WALL</u>			
	<u>Prepare the previously painted surface and prime with Plascon Professional Plaster Primer (PP700) and two coats Plascon Professional Superior Low Sheen paint (PEM 1000)</u>			
2	On internal walls	m2	123	
	<u>PAINT ON METAL</u>			
	<u>One coat Plascon Professional Undercoat (PU 800), prime surfaces with Plascon Metalcare Mild Steel Primer (WUP1) and two coats Plascon Water Based Velvagio enamel (VLW1)</u>			
3	On pressed steel door frames	m2	5	
	<u>ON INTERNAL PLASTERED WALL</u>			
	Carried to Collection			
	Bill No. 17			
	Paintwork			
			R	

	<u>One coat bonding liquid, one undercoat and two coats Plascon Cashmere acrylic paint</u>		
4	On internal walls	m2	222
	<u>ON PLASTER BOARD</u>		
	<u>One coat bonding liquid, one undercoat and two coats Plascon Cashmere acrylic paint</u>		
5	On ceilings	m2	151
6	On drywall	m2	291
	<u>ON WOOD</u>		
	<u>One coat wood primer, one undercoat and two coats Plascon Velvaglo enamel paint</u>		
7	On doors	m2	59

Carried to Collection

R

Bill No. 17
Paintwork

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Bill No. 17

Paintwork

COLLECTION

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Amount

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Bill No. 17
Paintwork

Item No	Description	Quantity	Rate	Amount
	<u>BILL NO.18</u>			
	<u>ELECTRICAL WORKS</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			

1	<u>Provide the amount of R798 000.00 (Seven Hundred and Ninety Eight Thousand) for electrical installation executed complete</u>	Item		
2	Profit		%	
3	Allow for general attendance	Item		
	Carried to Summary			R
	Bill No. 18 Electrical Works			

Item No	Description	Quantity	Rate	Amount
	<u>BILL NO.19</u>			
	<u>ELECTRONIC SYSTEM</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			

1	<u>Provide the amount of R244 000.00 (Two Hundred and Forty Four Thousand) for electronic system executed complete</u>	Item		
2	Profit		%	
3	Allow for general attendance	Item		
	Carried to Summary			R
	Bill No. 19 Electronics Installation			

Item No		Quantity	Rate	Amount
	<u>BILL NO.20</u>			
	<u>MECHANICAL INSTALLATION</u>			
	NOTE: Tenderers are advised to study the Model Preambles for Trades before pricing this bill			

1	Provide the amount of R340 000.00 (Three Hundred and Forty Thousand) for the mechanical installation executed complete	Item		
2	Profit		%	
3	Allow for general attendance	Item		
	Carried to Summary			
	Bill No. 20 Mechanical Installation		R	

Item No		Quantity	Rate	Amount
	<p><u>BILL NO.21</u></p> <p><u>PROVISIONAL SUMS</u></p> <p>NOTES:</p> <p>1. All provisional sums cover the supply of material and equipment and of installation where applicable by firms of specialists. Provisional sums are not and do not include for builder's discount, but the tenderer may allow under the item for "Profit" any profit he considers necessary. The tenderer is referred to item B7.1 and B7.2 in Section 1 ("Preliminaries") for the definitions and adjustment of "Attendance".</p> <p>2. Where special attendance includes the provision of hoisting facilities for a sub-contractor then the Contractor shall:-</p> <p>Ensure that the capacities of his hoisting equipment are sufficient to deal with the masses and the quantities of the items to be hoisted,</p> <p>Schedule the times of availability of the hoisting equipment for each sub-contractor,</p> <p>Provide all necessary personnel to operate the hoisting equipment,</p> <p>all to enable the sub-contractor to execute the hoisting or lowering of his material, etc using the facilities provided by the Contractor</p>			
	Carried to Collection			R
	Bill No. 21 Provisional Sums			

3. Under no circumstances may any Prime Cost or Provisional Sum, etc be extended at an amount lower than the amount given in this Bill. Provisional Sums may be omitted or reduced at the Employer's sole discretion and the

4. The following provisional sums for work to be executed by selected sub-contractors.

SELECTED SUB-CONTRACTORS

RELOCATION OF GAS

1 Provide the amount of R25 000.00 (Twenty Five Thousand) for the relocation of gas executed complete

Item

2 Profit

%

3 Allow for general attendance

Item

GAS CAGES AND TANKS

4 Provide the amount of R50 000.00 (Fifty Thousand) for the gas cages and tanks executed complete

Item

5 Profit

%

6 Allow for general attendance

Item

BIOHAZARD BIN

7 Provide the amount of R35 000.00 (Thirty Five Thousand) for the supply of biohazard bin executed complete

Item

8 Profit

%

9 Allow for general attendance

Item

Carried to Collection

R

Bill No. 21
Provisional Sums

FIRE PROTECTION

10 Provide the amount of R25 000.00 (Twenty Five Thousand) for the fire protection executed complete

Item

11 Profit

%

12 Allow for general attendance

Item

BLINDS

13 Provide the amount of R26 000.00 (Twenty Six Thousand) for the blinds executed complete

Item

14 Profit

%

15 Allow for general attendance

Item

IRONMONGERY

16 Provide the amount of R30 000.00 (Thirty Thousand) for the blinds executed complete

Item

17 Profit

%

18 Allow for general attendance

Item

KROST SHELVING

19 Provide the amount of R25 000.00 (Twenty Five ThousandTwenty Five Thousand) for the krost shelving executed complete

Item

20 Profit

%

21 Allow for general attendance

Item

**LABORATORY CUPBOARDS AND
COUNTER TOPS**

22 Provide the amount of R180 000.00 (One Hundred and Eighty ThousandOne Hundred and Eighty Thousand) for the laboratory counter tops and cupboards executed complete

Item

23 Profit

%

Carried to Collection

R

Bill No. 21
Provisional Sums

24	Allow for general attendance	Item	
	<u>DATA CAPTURE ROOM COUNTER TOPS</u>		
25	Provide the amount of R45 000.00 (Forty Five ThousandForty Five Thousand) for the data capture cupboards executed complete	Item	
26	Profit		%
27	Allow for general attendance	Item	
	<u>PIGEON-HOLES SHELVES</u>		
28	Provide the amount of R35 000.00 (Thirty Five ThousandThirty Five Thousand) for the pipeon-holes shelves executed complete	Item	
29	Profit		%
30	Allow for general attendance	Item	
	<u>RECEPTION COUNTER AND OFFICE DESK</u>		
31	Provide the amount of R55 000.00 (Fifty Five ThousandFifty Five Thousand) for the reception counter and office desk executed complete	Item	
32	Profit		%
33	Allow for general attendance	Item	
	<u>SIGNAGE</u>		
34	Provide the amount of R8 000.00 (Eight Thousand) for the internal, fire signage complete	Item	
35	Profit		%
36	Allow for general attendance	Item	
	<u>BUDGETARY ALLOWANCE</u>		
	NOTES:		
	Carried to Collection		R
	Bill No. 21		
	Provisional Sums		

**Upgrade and Refurbishment of
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The items described hereunder cover work which is not fully defined at tender stage and is intended to be executed by the contractor at rates to be agreed with the contractor in accordance with clause B1.9 of the Preliminaries

Builders Work in Connection With Services

37 Provide the Amount of R40 000.00 (Forty Thousand) for builders work in connection with services

Item

Remedial works to Adjoining Areas

38 Provide the Amount of R25 000.00 (Twenty Five Thousand) for remedial works to adjoining areas

Item

Corner Protection

39 Provide the amount of R4 500.00 (Four Thousand Five Hundred) net for corner protection

Item

Carried to Collection

R

Bill No. 21
Provisional Sums

**Upgrade and Refurbishment of
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Bill No. 21

Provisional Sums

COLLECTION

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Bill No. 21
Provisional Sums

**Upgrade and Refurbishment of
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Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
1	Preliminaries	17	
2	Alterations	23	
3	Foundations	28	
4	Concrete, Formwork and Reinforcement	31	
5	Masonry	35	
6	Waterproofing	36	
7	Roof Covering	39	
8	Carpentry and Joinery	42	
9	Ceilings and Partitions	46	
10	Floor Covering	47	
11	Ironmongery	48	
12	Metalwork	52	
13	Plastering	55	
14	Tiling	58	
15	Plumbing and Drainage	67	
16	Glazing	68	
17	Paintwork	71	
18	Electrical Works	72	
19	Electronics Installation	73	
20	Mechanical Installation	74	
21	Provisional Sums	80	
	Carried Forward		R

**Upgrade and Refurbishment of
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Bill No	<u>FINAL SUMMARY</u>	Page No	Amount
	Brought Forward		R
	Sub-Total		R
	Add: CONTINGENCY Allow the amount of R250 000.00 for CONTINGENCY, to be used at the discretion of the Employer and deducted in whole or in part if not required.	Item	
	Sub Total		R
	ADD: Value-Added Tax @ 15%		R
	Carried to Form of Tender		R