BILL NO. 1

PRELIMINARIES

BUILDING AGREEMENT AND PRELIMINARIES

The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described.

The JBCC Principal Building Agreement **contract data** form an integral part of this **agreement**.

The ASAQS Preliminaries (March 2014 edition) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement shall be deemed to be incorporated in these **bills of quantities**.

The **contractor** is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause.

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only. Where standard clauses or alternatives are not entirely applicable to this **agreement** such modifications, corrections or supplements as will apply are given under each relevant clause heading and such modifications, corrections or supplements shall take precedence notwithstanding anything to the contrary contained in the abovementioned documents.

Where any item is not relevant to this **agreement** such item is marked N/A (signifying "not applicable").

PREAMBLES FOR TRADES

The Model Preambles for Trades (2008 edition) as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these **bills of quantities** and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained.

Supplementary preambles are incorporated in these **bills of quantities** to satisfy the requirements of this project. Such supplementary preambles shall take precedence over the provisions of the Model Preambles.

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**ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.**

**KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN**

[Table with columns for Item No, Quantity, Rate, Amount]
The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles.

**PRICING OF PRELIMINARIES**

Should the contractor select Option A in terms of clause 26.9.4 of the contract data for the purpose of adjustment of these preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T).

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**Interpretation (A1-A7)**

1. Clause 1.0 - Definitions and interpretation

**Pricing of bills of quantities**

The contractor is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes, imposts, establishment charges, overheads, profit and all other obligations arising out of the agreement.

Items left unpriced will be deemed to be covered in prices against other items throughout these bills of quantities and no claim for any extras arising out of the contractor's omission to price any item will be entertained.

Prices for all plant, temporary works, services and other items shall include for the supply, maintenance, operating cost and subsequent removal and making good as necessary.

**Legal status of contractor**

If the contractor constitutes a joint venture consortium or other unincorporated grouping of two or more persons then:

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1. These persons are deemed to be jointly and severally liable to the employer for the performance of this agreement.

2. These persons shall notify the employer of their leader who has authority to bind the contractor and each of these persons.

3. The contractor shall not alter its composition or legal status without the prior written consent of the employer.

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

2. Clause 2.0 - Law, regulations and notices

Health and safety

Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations 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 provisions of the aforementioned health and safety specification [2.1]

3. The contractor shall:

1. Comply with the health and safety specification for the works

2. Prepare and agree with the health and safety consultant the health and safety plan for the works

3. Co-operate with the health and safety consultant in all respects

4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification

5. Conform to the conditions contained in the employer's safety specification

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

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4 Clause 3.0 - Offer and acceptance

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

5 Clause 4.0 - Assignment and cession

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

6 Clause 5.0 - Contract documents

**Value Added Tax**

Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)

**Contract drawings**

The contract drawings are as listed on the contents page of the bills of quantities [5.1]

**Priced document as specification**

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 [5.3]

**Electronic issue of drawings**

All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.5]

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

7 Clause 6.0 - Employer’s agents

**Delegated authority**

The authority of the principal agent to perform duties for specific aspects of the works is delegated to the agents as follows [6.2]:

1. **Architect**

The architect is responsible for the architectural design, functional design and quality inspection. Without derogating from the generality thereof the architect will perform the following specific functions and duties:

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1.1 Give opinion on aspects of the works which are not in accordance with the agreement

1.2 Supply the specified number of drawings

1.3 Issue instructions if bills of quantities is to be used as a specification

1.4 Be responsible for primary co-ordination of design elements

1.5 Receive through the contractor and accept design documentation undertaken by subcontractors

1.6 Issue contract instructions to the contractor regarding:

1.6.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works

1.6.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor

1.6.3 Removal or re-execution of any work

1.6.4 Opening up of work for inspection

1.6.5 Testing of work and materials and goods

1.6.6 Protection of the works

1.6.7 Making good physical loss and repairing damage to the works

1.6.8 Lists for practical completion and final completion

1.6.9 Compliance with Acts of Parliament, regulations and bylaws

1.7 Witness the handing over to the contractor of pegs, beacons and datum levels

1.8 Define levels and provide the contractor with the necessary information to set out the works

1.9 Acceptance of design by subcontractors

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1.10 Inspect the **works** from time to time and give the **contractor** interpretation and guidance on the standard and state of completion required for **practical completion**

1.11 Inspect the **works** for **practical completion**

1.12 Issue the **list for practical completion** and re-inspect upon request of the **contractor**

1.13 Issue the **certificate of practical completion**

1.14 Inspect the **works** at the end of the **defects liability period**

1.15 Issue the **list for final completion** and re-inspect upon request of the **contractor**

1.16 Issue the **certificate of final completion**

2. **Quantity surveyor**

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. Without derogating from the generality thereof, the quantity surveyor will perform the following specific functions and duties:

2.1 Consult with the **contractor** in correction of rates or errors and discrepancies

2.2 Complete the **contract data**

2.3 Supply the specified number of unpriced **bills of quantities**

2.4 Identify in the **contract data** any changes to the standard **JBCC documentation** and determine any loss and expense to the **contractor** caused by non-disclosure thereof

2.5 Deal with amounts paid by the **contractor** to authorities having jurisdiction over the **works**

2.6 Measure and value the making good of physical loss or damage

2.7 Issue instructions to the **contractor** regarding:

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-6-
2.7.1 Rectification of discrepancies and errors in description or omissions in contract documents

2.7.2 Furnishing proof of payment to subcontractors

2.7.3 Budgetary allowances and work executed by the contractor

2.7.4 Contingency and other monetary provisions included in the contract sum

2.8 Prepare nominated and/or selected subcontract tender documents

2.9 Receive proof from the contractor that the contractor’s payment obligations have been met in respect of subcontractors

2.10 Act on employer’s instructions to pay subcontractors directly

2.11 Adjustment of the contract value in respect of a revision to the date of practical completion

2.12 Calculate penalties for non-completion upon receipt of the relevant information from the principal agent

2.13 Valuation of payment claims for payment certificates

2.14 Calculate default and compensatory interest (if any) due to the parties

2.15 With each valuation for payment issue:

2.15.1 A statement to the contractor and each subcontractor showing the amount certified for the relevant subcontractor

2.15.2 A statement to the employer and contractor showing the total amount certified

2.15.3 A recovery statement

2.16 Determine the value of adjustments to the contract value

2.17 Receive from the contractor details of expense and loss claims and assess such claims

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2.18 Prepare the **final account** and submit to the **contractor**

3. Civil and structural engineer

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection. Without derogating from the generality thereof, the civil and structural engineer will perform the following specific functions and duties in respect of the civil and structural engineering aspects of the **works**:

3.1 Give opinion on aspects of the **works** which are not in accordance with the **agreement**

3.2 Supply the specified number of drawings

3.3 Issue instructions if **bills of quantities** is to be used as a specification

3.4 Receive and accept design documentation undertaken by **subcontractors**

3.5 Issue instructions to the **contractor** regarding:

3.5.1 Alteration to design, quality or quantity of the **works** provided that such Instructions shall not substantially change the scope of the **works**

3.5.2 Removal of any **materials and goods** from the **site** and the substitution of any **materials and goods** therefor

3.5.3 Removal or re-execution of any work

3.5.4 Opening up of work for inspection

3.5.5 Testing of work and **materials and goods**

3.5.6 Protection of the **works**

3.5.7 Making good physical loss and repairing damage to the **works**

3.5.8 Compliance with Acts of Parliament, regulations and bylaws

3.6 Define levels and provide the **contractor** with the necessary information to set out the **works**

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3.7 Acceptance of design by subcontractors

3.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion

3.9 Inspect the works for practical completion

3.10 Issue the list for practical completion and re-inspect upon request of the contractor

3.11 Inspect the works at the end of the defects liability period

3.12 Issue the list for final completion and re-inspect upon request of the contractor

4. Mechanical engineer

The mechanical engineer is responsible for all the aspects of mechanical engineering design and quality inspection and, where appointed by the employer for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. Without derogating from the generality thereof the mechanical engineer will perform the following specific functions and duties in respect of the mechanical engineering aspects of the works:

4.1 Give opinion on aspects of the works which are not in accordance with the agreement

4.2 Supply the specified number of drawings

4.3 Issue instructions if bills of quantities is to be used as a specification

4.4 Receive and accept design documentation undertaken by subcontractors

4.5 Issue instructions to the contractor regarding:

4.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works

4.5.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor

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4.5.3 Removal or re-execution of any work
4.5.4 Opening up of work for inspection
4.5.5 Testing of work and materials and goods
4.5.6 Protection of the works
4.5.7 Making good physical loss and repairing damage to the works
4.5.8 Compliance with Acts of Parliament, regulations and bylaws
4.6 Provide the contractor with the necessary information to set out the works
4.7 Acceptance of design by subcontractors
4.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion
4.9 Inspect the works for practical completion
4.10 Issue the list for practical completion and re-inspect upon request of the contractor
4.11 Inspect the works at the end of the defects liability period
4.12 Issue the list for final completion and re-inspect upon request of the contractor

5. Electrical engineer

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection and, where appointed by the employer for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions. Without derogating from the generality thereof the electrical engineer will perform the following specific functions and duties in respect of the electrical engineering aspects of the works:

5.1 Give opinion of aspects of the works which are not in accordance with the agreement
5.2 Supply the specified number of drawings

5.3 Issue instructions if bills of quantities is to be used as a specification

5.4 Receive and accept design documentation undertaken by subcontractors

5.5 Issue instructions to the contractor regarding:

5.5.1 Alteration to design, quality or quantity of the works provided that such instructions shall not substantially change the scope of the works

5.5.2 Removal of any materials and goods from the site and the substitution of any materials and goods therefor

5.5.3 Removal or re-execution of any work

5.5.4 Opening up of work for inspection

5.5.5 Testing of work and materials and goods

5.5.6 Protection of the works

5.5.7 Making good physical loss and repairing damage to the works

5.5.8 Compliance with Acts of Parliament, regulations and bylaws

5.6 Provide the contractor with the necessary information to set out the works

5.7 Acceptance of design by subcontractors

5.8 Inspect the works from time to time and give the contractor interpretation and guidance on the standard and state of completion required for practical completion

5.9 Inspect the works for practical completion

5.10 Issue the list for practical completion and re-inspect upon request of the contractor

5.11 Inspect the works at the end of the defects liability period

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8 5.12 Issue the list for final completion and re-inspect upon request of the contractor

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

9 Clause 7.0 - Design responsibility

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

Insurance and security (A8-A11)

10 Clause 8.0 - Works risk

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

11 Clause 9.0 - Indemnities

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

12 Clause 10.0 - Insurances

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

13 Clause 11.0 - Security

Security for payment

The employer shall provide to the contractor security for payment in the amount of NOT APPLICABLE [11.4.1,11.10]

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

Execution (A12 - A17)

14 Clause 12.0 - Duties of the parties

The Contractor shall be responsible for the preservation of:

Clause 12.1.3 - Known services

Access to water, sewer, stormwater and/or electricity connections to the site. Reference as [12.1.4]

Clause 12.2.15 - Enclosure of the works

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-12-
Enclosure of the works

The contractor shall erect, maintain and remove at completion hoardings with gantries, fans, safety screens, barriers, access gates, covered gangways and the like as necessary for the enclosure of the works and elements thereof, all for the protection of the public and others [12.2.15]

Clause 12.2.18 - Office accommodation NOT REQUIRED

Clause 12.2.18 - Notice boards

Standard Notice board to be provided

Geotechnical investigation report - NOT AVAILABLE

The results of a geotechnical investigation report will be available during the tender period upon request

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

15 Clause 13.0 - Setting out

Encroachments - N/A

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

16 Clause 14.0 - Nominated subcontractors

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

17 Clause 15.0 - Selected subcontractors

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

18 Clause 16.0 - Direct contractors

Attendance on direct contractors

In respect of direct contractors the contractor shall:

1. Designate an area for the direct contractor to establish a temporary office and workshop and storage of equipment and materials

2. Allow the use of personnel welfare facilities, where provided

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3. Provide water, lighting and single phase electric power to a position within 50m of the place where the direct contract work is to be carried out, other than fuel or power for commissioning of any installation

4. Permit the direct contractor to use erected scaffolding, hoisting facilities, etc provided by the contractor, in common with others having the like right while it remains erected on the site [16.1]

Completion (A18 - A24)

19 Clause 17.0 - Contract instructions

Site instructions

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

20 Clause 18.0 - Interim completion

21 Clause 19.0 - Practical completion

22 Clause 20.0 - Sectional completion

23 Clause 21.0 - Defects liability period and final completion

24 Clause 22.0 - Latent defects liability period

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Clause 23.0 - Revision of date for practical completion

**Substitution of materials and goods**

The removal or substitution of any **materials and goods** which do not conform to the specification or the **contract drawings** shall not constitute grounds for the extension of the **construction period** nor for the adjustment of the **contract value** [17.1.8, 23.1 & 2]

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

Clause 24.0 - **Penalty** for late or non-completion

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

**Payment (A25 - A27)**

Clause 25.0 - Payment

**Materials and goods stored off site**

The inclusion of **materials and goods** stored off site in the amount authorised for payment shall be at the sole discretion of the **principal agent** and such inclusion shall only be considered upon the provision, by the **contractor**, of an approved **security** [25.3.2]

**Fluctuations in costs**

All fluctuations in costs, with the exception of fluctuations in the rate of Value Added Tax, shall be for the account of the **contractor** [25.3.4]

**Prices submitted**

Where prices are submitted by the **contractor** or **subcontractor** during the progress of the works in respect of **contract instructions** or in regard to a claim under the terms of the **agreement** and notwithstanding the fact that such prices may be used in an interim **payment certificate**, there is to be no presumption of acceptance. Should the **principal agent** wish to accept any such prices prior to the issue of the **certificate of final completion**, it shall be in writing

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

Clause 26.0 - Adjustment of the **contract value** and final account

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R
Tenant installations'/users' requirements delayed

There is a possibility that certain works related to tenant installations'/users' requirements may have to be delayed and may consequently not be executed prior to practical completion.

The employer reserves the right to omit such work without compensation to the contractor for loss of profit or any other loss which the contractor may suffer as a result of such omission.

Should the contractor be instructed to do so he shall execute this work under the conditions pertaining to this agreement on the basis that a separate amount for preliminaries appurtenant to this work (if applicable) is agreed to between the contractor and the principal agent and on condition that instruction to proceed with such work is given to him within a period of three (3) calendar months after the date of practical completion of the works.

Cost of claims

All costs incurred by the contractor in the preparation of claims shall be borne by the contractor.

The contractor shall review, assess and adjudicate any claims received by him from any subcontractor and thereafter submit same to the principal agent with a recommendation to assist the principal agent in adjudicating the claim [26.6].

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29 Clause 27.0 - Recovery of expense and/or loss

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Suspension and termination (A28 - A29)

30 Clause 28.0 - Suspension by the contractor

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31 Clause 29.0 - Termination

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Dispute resolution (A30)

32 Clause 30.0 - Dispute resolution

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

33 Agreement

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

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

34 Contract data

Before submission of his tender the contractor is to complete the tenderer's selection in the contract data

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

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R
SECTION B: PRELIMINARIES

Interpretation (B1)

35 Clause 1.1 - Definitions
F:................................... V:.............................. T:.............................. Item

36 Clause 1.2 - Interpretation
F:................................... V:.............................. T:.............................. Item

Documents (B2)

37 Clause 2.1 - Checking of documents
F:................................... V:.............................. T:.............................. Item

38 Clause 2.2 - Provisional bills of quantities
F:................................... V:.............................. T:.............................. Item

39 Clause 2.3 - Availability of construction information
The provisional sums included in this agreement will be separately procured, based on multiple procurement of subcontractors during the construction period
F:................................... V:.............................. T:.............................. Item

Previous work and adjoining properties (B3)

40 Clause 3.1 - Previous work - dimensional accuracy
F:................................... V:.............................. T:.............................. Item

41 Clause 3.2 - Previous work - defects
F:................................... V:.............................. T:.............................. Item

42 Clause 3.3 - Inspection of adjoining properties
F:................................... V:.............................. T:.............................. Item

Samples, shop drawings and manufacturer's instructions (B4)

43 Clause 4.1 - Samples of materials
F:................................... V:.............................. T:.............................. Item

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Clause 4.2 - Workmanship samples
F:............................ V:............................ T:............................ Item

Clause 4.3 - Shop drawings
F:............................ V:............................ T:............................ Item

Clause 4.4 - Compliance with manufacturer's instructions
F:............................ V:............................ T:............................ Item

Deposits and fees (B5)

Clause 5.1 - Deposits and fees
F:............................ V:............................ T:............................ Item

Temporary services (B6)

Clause 6.1 - Water
F:............................ V:............................ T:............................ Item

Clause 6.2 - Electricity
F:............................ V:............................ T:............................ Item

Clause 6.3 - Ablution and welfare facilities
F:............................ V:............................ T:............................ Item

Clause 6.4 - Communication facilities
F:............................ V:............................ T:............................ Item

Prime cost amounts (B7)

Clause 7.1 - Responsibility for prime cost amounts
F:............................ V:............................ T:............................ Item

Attendance on subcontractors (B8)

Clause 8.1 - General attendance
F:............................ V:............................ T:............................ Item

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Clause 8.2 - Special attendance

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

Clause 9.1 - Protection of the works

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

Clause 9.2 - Protection/isolation of existing/sectionally occupied works

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

Clause 9.3 - Security of the works

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

Clause 9.4 - Notice before covering work

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

Clause 9.5 - Disturbance

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

Clause 9.6 - Environmental disturbance

**Controlling all forms of pollution**

The contractor shall be responsible for and take all precautions in controlling by whatever means necessary all forms of pollution during the construction period due *inter alia* to noise, artificial light, wind-blown sand, dust, deposits of mud, etc.

The contractor is to ensure that all roads which border the site and is used by the contractor during the execution of the works are kept clean and free of any dirt or debris caused by the execution of the works

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

Clause 9.7 - Works cleaning and clearing

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

Carried to Collection

R
### Schedule (B10)

#### Information for completion of schedule

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 [2.2]**

The quantities are provisional Yes

10.2 - **Availability of construction information [2.3]**

**Construction documentation** is complete No

10.3 - Previous work - dimensional accuracy [3.1]

10.4 - Previous work - defects [3.2]

10.5 - Inspection of adjoining properties [3.3]

10.6 - Water [6.1]

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<tr>
<td>Option B (by employer - free of charge)</td>
<td>Yes</td>
</tr>
<tr>
<td>Option C (by employer - metered)</td>
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10.7 - Electricity [6.2]

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<th>Status</th>
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<tbody>
<tr>
<td>Option A (by contractor)</td>
<td>No</td>
</tr>
<tr>
<td>Option B (by employer - free of charge)</td>
<td>Yes</td>
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<tr>
<td>Option C (by employer - metered)</td>
<td>No</td>
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10.8 - Ablution and welfare facilities [6.3]

<table>
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<td>Option B (by employer)</td>
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10.9 - Communication facilities [6.4]

### Carried to Collection

#### SECTION NO. 1
#### BILL NO. 1
#### PRELIMINARIES
#### ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
#### KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
10.10 - Protection of the works [9.1]

10.11 - Protection/isolation of existing/sectionally occupied works [9.2]

Protection/isolation is required  Yes

10.12 - Disturbance [9.5]

All work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or the local authority. Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever.

10.13 - Environmental disturbance [9.6]

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

Carried to Collection

SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
SECTION C: SPECIFIC PRELIMINARIES

65 Warranties for materials and workmanship

Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity 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 specific period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the entity 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 execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor.

66 Overtime

Should overtime be required to be worked for any reason whatsoever, the costs of such overtime is to be borne by the contractor unless the principal agent has specifically authorised, in writing, prior to execution thereof, that costs for such overtime are to be borne by the employer.

67 Co-operation of the contractor for cost management

It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget.

---

Carried to Collection

SECTION NO. 1
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KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
Overloading

The contractor shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the works or temporary works eg scaffolding, etc. The contractor shall submit details of his proposed loading, storage, plant erection, etc to the principal agent for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the principal agent's requirements in connection with the provision of temporary support work, etc. Any damage caused to the works by overloading shall be made good by the contractor at his sole expense.

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

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

Testing of flat roof waterproofing for watertightness

Flat roof waterproof areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least forty (40) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing.

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

Advertising rights

The employer may elect to contract with advertising agencies for the erection of advertising hoardings, banners, wraps or the like for the duration of the contract. The contractor shall not prevent such an arrangement and will assist in the facilitation of same. Position and type of advertising structure to be agreed with the principal agent so as not to hinder the contractor in the meeting of his obligations under this agreement.

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

Carried to Collection
Confidentiality

The contractor undertakes to maintain in confidence any and all information regarding this project and shall obtain appropriate similar undertakings from all subcontractors and suppliers. Such information shall not be used in any way except in connection with the execution of the works.

No information regarding this project shall be published or disclosed without the prior written consent of the employer.

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

Media releases

All rights of publication of articles in the media, together with any advertising relating thereto or in any way connected with this project, shall vest with the employer.

The contractor together with his subcontractors shall not, without the prior written consent of the employer, cause any statement or advertisement to be printed, screened or aired by the media.

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

Carried to Collection

SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
SECTION D: CONTRACT DATA

A   TENDER INFORMATION

A.1 Project name - ALTERATIONS AND RENOVATIONS TO HOUSE 13, 11 & GARDEN OFFICE KITCHEN
KIRSTENBOSCH GARDENS: CAPE TOWN

A.2 Works description - Alterations to existing house 11 & 13 and Garden office kitchen

A.3 Site description

Erf No / Township
Local Authority           City of Cape Town
Street Address            Kirstenbosch Gardens: Cape Town

A.4 Employer

Name                     SA NATIONAL BIODIVERSITY INSTITUTE (S.A.N.B.I.)
Business-eg:             Public / Private Company
Business registration number
VAT
Contact person           Dirk Linde
Mobile
E-mail                   D.Linde@sanbi.org.za
Registered street address
Postal address            Private Bag X7
                          Claremont
Code                     7735
Tel 021 799 8783          Fax 021 797 6570

Carried to Collection
A.5 Principal Agent ARCHITECTS

Name GREGG GODDARD ARCHITECTS

Practice registration number

VAT

Contact person Gregg Goddard

Mobile 082 783 9737

E-mail gregg@ggarch.co.za

Registered street address
1 Heeson Road
Betty's Bay

Postal address P.O. Box 167
Betty's Bay

Code 7141

Tel 028 272 9419 Fax 028 272 9842

A.6 Agent ARCHITECTS

Name GREGG GODDARD ARCHITECTS

Practice registration number

VAT

Contact person Gregg Goddard

Mobile 082 783 9737

E-mail gregg@ggarch.co.za

Registered street address
1 Heeson Road
Betty's Bay

Postal address P.O. Box 167
Betty's Bay

Code 7141

Tel 028 272 9419 Fax 028 272 9842

Carried to Collection

SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
A.7 Agent QUANTITY SURVEYORS

Name KAHTS & SPARKS CAPE TOWN CC
Practice registration number 15166537
VAT 4510151329
Contact person Doug Sparks
Mobile 083 725 5402
E-mail doug@ksqs.co.za
Registered street address
2 Remington Road
Wynberg
Postal address 2 Remington Road
Wynberg
Code 7800
Tel 021 761 5794 Fax 086 554 8007

CONTRACT DATA

Clause references apply to the JBCC Principal Building Agreement Edition 6.1 (PBA) published March 2014

Only clauses in the PBA requiring the provision of information [CD] are quoted below

2.0 Law regulations and notices

2.1/25.13 Law of the country applicable to the project

Republic of South Africa

5.0 Contract documents

5.1 Signed contract documents held by the client

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BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

Carried to Collection
5.5 Number of copies of documents issued free to the contractor

3 No copies

Priced document

Lump sum priced document, or No
Priced bills of quantities (BoQ) Yes

System/method of measurement


Contract documents comprising ...

Description

JBCC Principal Building Agreement Ed 6.1 - March 2014 A
JBCC PBA Contract Data Ed 6.1 - March 2014 B

Contract drawings

Description Date Number Revision

FLOOR PLAN AND ELEVATIONS MAY 2016 1603/101 REV 1

6.0 Employer’s agents

6.3 Description of interests of agents in the project other than professional services, if applicable

10.0 Insurances

By the employer Yes

By the contractor in the joint names of the parties No

Contract works insurance (CWI) (including materials and goods, temporary works)

Currency (Rands) Contract Sum

Allowance for professional fees and escalation of the insured value at 25% pa, or

30%

Carried to Collection

SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
**Free issue** material at new replacement value

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Public liability insurance (each and every claim OR unlimited for the period) By Contractor

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<tbody>
<tr>
<td>Rands</td>
<td>R10 000 000.00 (Ten Million)</td>
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Supplementary insurance (incl CWI extensions) 

*per CWI*

Policy deductibles

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<td>Rands</td>
<td>R50 000.00 (Fifty Thousand)</td>
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**11.0 Securities**

11.1.1-5 The contractor shall provide a **Guarantee for Construction** to the **employer** Yes

**12.0 Duties of the parties = employer = site**

9.2.7 Alterations & additions to existing premises Yes

12.1.2 Premises occupied Yes

The following will be occupied

- House 11 & 13 - Redecoration and minor works
- Garden Office - Kitchen alterations

12.1.3 Relevant natural features to be retained No

12.1.11 Description of **free issue** by **employer** Three copies

12.1.4 Areas the **contractor** may not occupy

12.1.5 Utilities connections - location

---

**SECTION NO. 1**  
**BILL NO. 1**  
**PRELIMINARIES**  
**ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.**  
**KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN**

---

-30-
12.1.6 Statutory and/or other notices to be complied with by the contractor before possession of site can be given

12.1.7 Possession of the site - intended date

Within 3 days of tender acceptance

12.1.2 Description of free issue by employer (Attach separate page for multiple items)

3 Copies of drawings & documents

14.0 Nominated subcontractors, where identified

14.1.4 Specialisation

16.0 Direct contractors

Employer to define extent of work by a direct contractor (12.1.2)

16.1 Electronic services

19 / 20 / 24 Practical completion / penalty for late completion

19.0 Practical completion of the works as a whole

| Inspection = working days | Three |
| Date for practical completion | 8 weeks |
| Penalty Currency | Rands |
| Penalty amount per calendar day | R750.00 |

19.0 Practical completion

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

19.1.1 Criteria to achieve practical completion (the BoQ may contain a more detailed description)

25.0 Payment

25.0 Currency R

South African Rand

25.2 Issue of regular payment certificates on

25th of each month

Carried to Collection

R

SECTION NO. 1
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PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

-31-
25.3.2 **Materials and goods** off site - paid subject to **Guarantee for Advance Payment** provided

25.3.4/26.9.5 Contract price adjustment provisions NOT APPLICABLE

30.0 **Dispute resolution**

30.6.1 Alternative Dispute Resolution nominating body

South African Institute of Arbitration

**Changes made to JBCC documentation**

Note: The amendments contained herein or in the single referenced Annexure constitute the only amendments to the standard JBCC Agreement that will apply. No other amendments shall be of any force or effect.

**TENDER CLOSING**

Tender closing: Date 7 October 2016
Tender closing: Time 11:00am
Tender closing: Place

**SUBMISSION ADDRESS**

Delivered in electronic format No

E-mail address:
Ludwe Madayi L.Madayi@sanbi.org.za

and copy

Prince Hlongwane p.hlongwane@sanbi.org.za

Alternate offer considered No

Only if original tender submitted N/A

**TENDERER'S SELECTION (to be completed by the tenderer)**

Carried to Collection

**SECTION NO. 1**
**BILL NO. 1**
**PRELIMINARIES**
**ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.**
**KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN**
11.0 Securities

11.1.2 Security for Construction (variable)
If specified, contractor’s choice

11.1.3 or

Guarantee for Construction (fixed)
If specified, contractor’s choice

11.1.4 Guarantee for Advance Payment
Provided by the contractor
(where the contractor requests the employer to pay an advance for materials and goods)

Purpose
Currency
Amount

11.4 Guarantee for Payment
Provided by the employer No
Currency
Amount

19.0 Contractor’s holiday periods during the construction period - N/A

Contractor’s annual holiday period - year 1
will be as agreed by BIFSA
26.0 Payment / Adjustment of Preliminaries

Payment of preliminaries

Option A
Assessed by principal agent, an amount pro rated to the value of the works executed in the same ratio as the preliminaries to the contract sum, (including tax); shall exclude the amount of preliminaries, all contingency sum(s) and any allowance for CPAP

Or...

Option B
An amount agreed by the principal agent and the contractor in terms of the Bills of Quantities or the priced document to identify an initial establishment charge / a monthly charge / and a final disestablishment charge

Where the contractor does not indicate option 'A' or option 'B' - option 'A' shall apply

Adjustment of preliminaries [26.9.4]

Option A
For the adjustment of preliminaries both the contract sum and the contract value (including tax), shall exclude the amount of preliminaries, all contingency sum(s) and any provision for Contract Price Adjustment Provisions:-

- An amount which shall not be varied
- An amount varied in proportion to the contract value as compared to the contract sum
- An amount varied in proportion to the construction period as compared to the initial construction period (excluding revisions to the construction period to which the contractor is not entitled) to adjustment of the contract value in terms of the agreement

The contractor shall provide a breakdown of charges (including tax) within 15 working days of the date of acceptance of tender and, where applicable, an apportionment of preliminaries per section

Carried to Collection
Where such information is not provided the following subdivision shall be deemed to apply:

- 10% of the amount shall not be varied
- 15% varied in proportion of the contract value to the contract sum
- 75% varied in proportion to the revised construction period compared to the initial construction period

or

Option B

The contractor shall within 15 working days of the date of possession of the site provide the principal agent with a detailed breakdown of preliminaries amounts for the works as a whole, or per section where applicable, including administrative and supervisory staff charges and for the use of construction equipment in terms of the programme.

Where the contractor does not indicate option ‘A’ or option ‘B’ - option ‘A’ shall apply

Notes

1. By submission of this tender to the employer the tenderer offers and agrees to execute and complete the works and remedy any defects in conformity with the specification for the tender sum stated - to be paid in instalments as work is completed.

2. The tender shall remain in full legal force for 45 calendar days from the closing date of the tender. The tenderer accepts liability for damages that may be suffered by the employer should the tender validity period not be honoured.

3. The lowest or any offer will not necessarily be accepted by the employer - nor need reasons be given for such a decision.

4. Any provision in this agreement that my confer any benefit or right in favour of any subcontractor shall be binding on the parties and be capable of acceptance by such subcontractor at any time.

5. Annexures ... marked

A Carried to Collection

SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
TENDER SUM COMPILATION

Tenderer’s work excluding tax R

Tax ... at Percentage 14% R

TOTAL TENDER SUM inclusive of tax R

Tender sum in words

..................................
(print) TENDERER

..................................
Capacity

..................................
who, by its SIGNATURE warrants authority thereto

.................................. ..................................
Date Location

..................................
WITNESS print name

..................................
Capacity

..................................
SIGNATURE

.................................. ..................................
Date Location

..................................

Carried to Collection
TENDERER’S DETAILS

Tenderer’s details

Name

Business e.g.: public company

Business registration number

VAT / GST

Contact person

Mobile

E-mail

Registered street address

Postal address

Code

Tel       Fax

SUMMARY OF CATEGORIES

Category: Fixed        R .................................

Category: Value        R .................................

Category: Time         R .................................

SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

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SECTION NO. 1
BILL NO. 1
PRELIMINARIES
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
### PRELIMINARIES

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**CARRIED TO FINAL SUMMARY**

**SECTION NO. 1**
**BILL NO. 1**
**PRELIMINARIES**
**ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.**
**KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN**
BILL NO. 1

ALTERATIONS

GENERAL CLAUSES

1 It is strongly recommended that Tenderers undertake a detailed inspection of the existing buildings in order to acquaint themselves with the nature and singular requirements of the work falling within the scope of this Section

REMOVAL OF EXISTING WORK

Breaking up and removing reinforced concrete

2 100mm Thick reinforced concrete shelf m² 1

Breaking down and removing brickwork etc

3 Brickwork in chimney, including cowl and flue m³ 5

4 One brick wall including finishes both sides m² 14

Taking out and hand over/set aside for re-use existing doors, etc. from wall to be demolished

5 Adjustable timber shelves 740 x 656mm wide, on and including wall bands at 300mm centres No 3

6 Timber sliding door and frame size 900 x 2 100mm high, including timber pelmet, tracks, door stops, etc. No 1

Neatly cut out and remove steel windows and prepare to receive new aluminium window in same opening and make good plaster finishes on both sides and plastered internal and external fibre cement cills (making good paintwork elsewhere)

7 Steel window 1 800 x 2 125mm high No 2

Taking out and removing ironmongery

8 Chromium plated curtain rail 900mm long from tiled walls No 1

9 Shower rose from wall No 1

Carried to Collection R

SECTION NO. 2
BILL NO. 1
ALTERATIONS
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
10 Burglar bar screwed to steel window frame, not exceeding 0,75m²  

**Taking off and removing sundry joinery work**

11 Round cupboard door vents  
12 Brass window sliding stay  
13 Steel pelmet  
14 Built in bathroom floor vanity cupboard 975 x 450 x 900mm high  
15 Built in kitchen floor cupboard 2 470 x 600 x 900mm high, including post-formed worktop  
16 Built in kitchen floor cupboard 3 140 x 600 x 900mm high, including post-formed worktop  
17 Built in kitchen wall cupboard 650 x 600 x 900mm high  
18 Built in kitchen wall cupboard 2 470 x 300 x 1 200mm high  
19 Built in kitchen wall cupboard 860 x 600 x 1 200mm high  

**Taking up and removing vinyl floor coverings, carpeting, etc**

20 Carpeting and prepare floor to receive vinyl flooring (vinyl floor finish elsewhere)  
21 Parquet flooring 13mm thick  
22 Vinyl tile or sheet flooring and prepare floor to receive vinyl flooring (vinyl floor finish elsewhere)  

**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**

23 Ceramic floor tiles and screed to receive new vinyl finish (New vinyl & screed elsewhere)  
24 Ceramic wall tiles and plaster backing and prepare walls to receive new finishes (New finish and paint elsewhere)  

**MAKING GOOD OF FINISHES ETC**

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<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
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<td>25</td>
<td>Face of walls where one brick cross walls removed</td>
<td>m</td>
<td>5</td>
</tr>
<tr>
<td>26</td>
<td>Faces of walls where one brick cross walls removed</td>
<td>m</td>
<td>5</td>
</tr>
<tr>
<td>27</td>
<td>To match existing where one brick walls removed</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>28</td>
<td>Ceilings in patches where 1.265 x 690mm brick chimney demolished</td>
<td>No</td>
<td>1</td>
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<td>29</td>
<td>Ceilings where one brick walls removed</td>
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</tr>
<tr>
<td>30</td>
<td>To floors where internal fireplace removed</td>
<td>m2</td>
<td>1</td>
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<tr>
<td>31</td>
<td>To floors where one brick walls removed</td>
<td>m</td>
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**Making good brickwork**

**Making good internal cement plaster**

**Make good timber cornices**

**Making good gypsum flush plasterboard ceilings and timber brandering**

**Making good screed**
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CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2
BILL NO. 1
ALTERATIONS

ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
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<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 2**

**CONCRETE, FORMWORK AND REINFORCEMENT**

**UNREINFORCED CONCRETE**

20MPa/19mm concrete

1 Plinth of fire place
   - m$^3$ 0.2

**ROUGH FORMWORK (DEGREE OF ACCURACY II)**

Rough formwork to sides

2 Edges, risers, ends and reveals not exceeding 300mm high or wide
   - m 5

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2

BILL NO. 2

CONCRETE, FORMWORK AND STEEL REINFORCEMENT ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.

KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
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<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>BILL NO. 3</td>
<td>MASONRY</td>
<td>BRICKWORK</td>
<td>Brickwork of NFP clay bricks in class II mortar</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>110mm Brick kerb 160mm high</td>
<td>m</td>
<td>5</td>
<td></td>
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</tbody>
</table>

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2
BILL NO. 3
MASONRY
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
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</thead>
<tbody>
<tr>
<td>BILL NO. 4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ROOF COVERINGS, ETC.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SLATES</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>610 x 406 x 7.5mm &quot;Everite&quot; fibre-cement plain slates nailed with galvanised clout nails to new or existing battens at 250mm centres and fastened together with copper disc rivets</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Make good slates where chimney stack removed hole size 1220 x 660mm on plan</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Strip existing broken slates and replace with new slate to match existing</td>
<td>No</td>
<td>11</td>
<td></td>
</tr>
</tbody>
</table>

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2
BILL NO. 4
ROOF COVERINGS, ETC.
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
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<th>Item No</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Taking out skirting from wall and set aside for re-use</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Re-fix timber skirting previously set aside for re-use</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Make good skirting to match existing</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Wall cupboard size 935 x 300 x 720mm high with double doors and one intermediate shelves</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Wall cupboard size 800 x 300 x 1 400mm high with 100mm cornice board at ceiling junction and fitted with double doors and three intermediate shelves</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Floor mounted broom cupboard size 400mm wide x 300mm deep x 2 650mm high with 100mm cornice board at junction with ceiling and single doors and three intermediate shelves</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Floor mounted grocery cupboard size 800mm wide x 300mm deep x 2 650mm high with 100mm cornice skirt at junction with ceiling and double doors and seven intermediate shelves</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Floor mounted under counter oven unit 630mm wide with top rail</td>
<td></td>
<td></td>
<td></td>
<td></td>
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</table>

**Carried to Collection**

R当地的BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Floor mounted four drawer unit 450mm wide</td>
<td>No 1</td>
</tr>
<tr>
<td>10</td>
<td>Floor mounted single door unit 450mm wide with one intermediate shelf</td>
<td>No 1</td>
</tr>
<tr>
<td>11</td>
<td>Floor mounted single door unit 600mm wide with one intermediate shelf</td>
<td>No 1</td>
</tr>
<tr>
<td>12</td>
<td>Floor mounted double door unit 900mm wide with one intermediate shelf</td>
<td>No 1</td>
</tr>
<tr>
<td>13</td>
<td>Floor mounted double door unit 935mm wide with one intermediate shelf</td>
<td>No 2</td>
</tr>
<tr>
<td>14</td>
<td>Floor mounted three door sink unit 1 350mm wide with one intermediate shelf</td>
<td>No 1</td>
</tr>
<tr>
<td>15</td>
<td>30mm &quot;Sambo&quot; or other approved granite kitchen countertop 600mm wide with rounded edge</td>
<td>m 6.3</td>
</tr>
<tr>
<td>16</td>
<td>Extra over worktop for cutting opening for standard four plate hob</td>
<td>No 1</td>
</tr>
<tr>
<td>17</td>
<td>Extra over worktop for cutting opening size 825 x 425mm for insert sink</td>
<td>No 1</td>
</tr>
<tr>
<td>18</td>
<td>43mm Wide x 900mm high filler strip between cupboard and wall</td>
<td>No 1</td>
</tr>
<tr>
<td>19</td>
<td>Silicone sealer between kitchen worktop and wall tiles</td>
<td>m 8</td>
</tr>
</tbody>
</table>

**Carried to Collection**

**SECTION NO. 2**
**BILL NO. 5**
**CARPENTRY AND JOINERY**
**ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.**
**KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN**
SECTION NO. 2
BILL NO. 5
CARPENTRY AND JOINERY

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Total Brought Forward from Page No.

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2
SECTION NO. 2
BILL NO. 5
CARPENTRY AND JOINERY
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
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<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>On floors including cutting between existing skirtings</td>
<td>m²</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Aluminium floor trim to doorways between differing floor finishes</td>
<td>m</td>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

FLOOR COVERINGS

“FloorworX Autograph Luxury Vinyl planks (LVPs)” 5mm thick x 228.6mm wide and 1219mm long laid on and including rubber underlay (Code AGP002 Pinot Grey)

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2
BILL NO. 6
FLOOR COVERINGS
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
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<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td><strong>BILL NO. 7</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>IRONMONGERY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>HINGES, BOLTS, ETC.</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>“Gelmar 6019” or other approved 75mm diameter white plastic round cupboard air vent</td>
<td>No</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Brass open out window sliding stay 350mm long</td>
<td>No</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2

BILL NO. 7

IRONMONGERY

ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.

KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
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</thead>
<tbody>
<tr>
<td>BILL NO. 8</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>METALWORK</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GALVANIZED STEEL HANDRAILS, BALUSTRADES, ETC.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Cut off existing 20 x 20mm rusted steel base posts 200mm long off existing courtyard balustrades and remove the rusted part embedded 100mm into existing concrete coping and prepare for new 40 x 40mm post</td>
<td>No</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>New external balustrades base posts</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>40 x 40 x 200mm Long solid steel hot dipped galvanised balustrade support posts welded on to existing balustrades where rusted posts removed and grout into existing concrete coping and cold galvanise the weld</td>
<td>No</td>
<td>7</td>
<td></td>
</tr>
<tr>
<td>ALUMINUM WINDOWS AND DOORS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;Wispeco 340 Series&quot; white powder coated aluminium projected out casement window glazed with 6mm glass and waterproofed with silicone sealant on completion</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Window size 1 800 x 2 125mm high overall formed of THOO fanlight approximately 1 800 x 310mm high, with 530 x 1190mm high side hung casement next to a fixed panel 1270 x 1190mm high both below the fanlight all three glazed with clear glass and sub light panel 1800 x 625mm high glazed with white translucent 6.3mm laminated safety glass</td>
<td>No</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>&quot;Lexan&quot; or other approved transparent burglar bars fixed to aluminium window frames</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Burglar bar 560mm long</td>
<td>No</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Burglar bar 1 800mm long</td>
<td>No</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>&quot;Lexan&quot; or other approved transparent burglar bars fixed to steel window frames</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Burglar bar 460mm long</td>
<td>No</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Burglar bar 500mm long</td>
<td>No</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Burglar bar 560mm long</td>
<td>No</td>
<td>18</td>
<td></td>
</tr>
</tbody>
</table>

Carried to Collection

SECTION NO. 2
BILL NO. 8
METALWORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Burglar bar 1 200mm long</td>
<td>No 5</td>
</tr>
<tr>
<td>10</td>
<td>Burglar bar 1 640mm long</td>
<td>No 1</td>
</tr>
</tbody>
</table>

**SHOWER SCREEN**

Shower screens formed of clear glass in accordance with the National Building Regulations and sealed to a watertight finish

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>White aluminium framed &quot;Kal Tri-panel&quot; sliding shower door 731 x 1850mm high</td>
<td>No 1</td>
</tr>
</tbody>
</table>

SECTION NO. 2
BILL NO. 8
METALWORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

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</tbody>
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Total Brought Forward from Page No.
## BILL NO. 9

### PLASTERING

#### SCREEDS

3:1 Cement plaster screeds wood floated on concrete to receive waterproofing

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>m2</td>
<td>25mm Thick on floors and landings</td>
<td>10</td>
<td></td>
</tr>
</tbody>
</table>

#### INTERNAL PLASTER

Cement plaster on brickwork inside existing buildings

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>m2</td>
<td>On walls inside existing buildings</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>m2</td>
<td>On narrow widths</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>m</td>
<td>Make good electrical conduit chase in existing plastered wall not exceeding 50mm wide</td>
<td>8</td>
<td></td>
</tr>
</tbody>
</table>

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2

BILL NO. 9

PLASTERING

ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC. KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
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<tr>
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<td>BILL NO. 10</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>TILING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WALL TILING</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Allow the prime cost amount of R120.00 (One hundred and Twenty Rand) per square metre excluding VAT and waste (rate to include waste) for the supply and delivery of ceramic wall tiles</td>
<td>m²</td>
<td>11</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Add for profit as last item if required</td>
<td>Item</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Take delivery, sort and store tiles</td>
<td>Item</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Labour only fixing 200 x 200mm ceramic wall tiles with and including approved adhesive including pointing with standard colour grout</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>On walls previously tiled in patching</td>
<td>m²</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>On existing painted walls including preparation</td>
<td>m²</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>On walls previously tiled, including preparation</td>
<td>m²</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>On walls previously tiled in isolated panels, splashbacks, etc. including preparation</td>
<td>m²</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>On painted walls in isolated panels, splashbacks, etc. including preparation</td>
<td>m²</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>On narrow widths</td>
<td>m²</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Extra over tiling to walls previously tiled for tiling around wall mounted kitchen sink mixer</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>Sundries</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>White plastic corner protector</td>
<td>m</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>&quot;M-Trim ASE100&quot; 10mm natural aluminium straight edge trim</td>
<td>m</td>
<td>4</td>
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</tr>
<tr>
<td><strong>Carried to Collection</strong></td>
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<td><strong>BILL NO. 10</strong></td>
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<tr>
<td><strong>TILING</strong></td>
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<tr>
<td><strong>ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.</strong></td>
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<tr>
<td><strong>KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
### INTERNAL FLOOR TILING

13 Allow the prime cost amount of R200.00 (Two Hundred Rand) per square metre excluding VAT and waste (rate to include waste) for the supply and delivery of porcelain floor tiles

<table>
<thead>
<tr>
<th></th>
<th>m²</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

14 Add for profit as last item if required

<table>
<thead>
<tr>
<th></th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Labour only fixing 300 x 300mm ceramic floor tiles with and including approved adhesive including pointing with standard colour grout**

15 On floors and landings

<table>
<thead>
<tr>
<th></th>
<th>m²</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

### DIVIDING STRIPS, ETC.

16 "M-Trim ASE 120" 3 x 12mm aluminium straight edge trim to floor tiles on nosing to treads of stairs

<table>
<thead>
<tr>
<th></th>
<th>m</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
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<td>4</td>
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**Carried to Collection**

**SECTION NO. 2**

**BILL NO. 10**

**TILING**

**ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.**

**KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN**
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CARRIED FORWARD TO SUMMARY OF SECTION NO. 2
SECTION NO. 2
BILL NO. 10
TILING
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
BILL NO. 11

PLUMBING AND DRAINLAYER

TAPS, VALVES, ETC. (W.G. 148)

Carefully taking out and setting aside for reuse, or hand over including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere) and prepare pipework for installation of new fittings in same position

1. Take off existing shower head and prepare to receive new head (Elsewhere)
   - No 1

2. Existing basin, taps, waste and trap and hand over to client and prepare for new basin
   - No 1

3. Stainless steel sink on timber cupboard (Cupboard to be removed by others)
   - No 1

4. Re fix existing stainless steel double bowl sink previously set aside for re-use including re-connecting piping to fittings
   - No 1

SANITARY FITTINGS

5. "Mend-a-Bath" re enameling of existing steel bath
   - No 1

6. 600mm Mahogany vanity and basin unit as "Builders Warehouse Catherine 600 Cab" and ceramic basin
   - No 1

WASTE UNIONS, ETC.

7. 32mm Basin Aquawaste set as "Cobra 302-32" (Click waste)
   - No 1

TRAPS

8. 32mm "Di Bella" chromium plated bottle trap
   - No 1

TAPS, VALVES, ETC.

9. 15mm Chromium plated "Hansgrohe Cosmo E" single lever basin mixer complete with braided flexible connector hoses
   - No 1

10. "Hansgrohe Crometta 85 Green" overhead shower rose
    - No 1

Carried to Collection

SECTION NO. 2
BILL NO. 11
PLUMBING AND DRAINLAYER
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>Sundries</th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11 Seal around sanitary fittings in white silicone</td>
<td>m</td>
<td>3</td>
</tr>
<tr>
<td>Page No</td>
<td>Amount</td>
<td></td>
</tr>
<tr>
<td>---------</td>
<td>--------</td>
<td></td>
</tr>
<tr>
<td>-59-</td>
<td></td>
<td></td>
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<tr>
<td>-60-</td>
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Total Brought Forward from Page No.

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2

SECTION NO. 2
BILL NO. 11
PLUMBING AND DRAINLAYER
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>
| BILL NO. 12  
GLAZING  
GLAZING TO STEEL WITH PUTTY | | | | |
| 1 | m2 | 6.38mm Normal Strength clear laminated safety glass in squares exceeding 0.5m\(^2\) and not exceeding 2m\(^2\) | m2 | 8 |
| SUNDRIES | m2 | Take out glass from steel/metal window including cleaning out rebates and prepare to receive new glass and prime frame with NS4 | m2 | 6 |

CARRIED FORWARD TO SUMMARY OF SECTION NO. 2
SECTION NO. 2
BILL NO. 12
GLAZING
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
### BILL NO. 13

#### PAINTWORK

**ON PLASTER, ETC.**

One coat "Duraseal" alkali resistant primer and two coats "Dura 65" matt acrylic paint

1. On gypsum flush plastered ceilings in patches
   - Unit: m²
   - Quantity: 2

   **One coat 'Dulux Ecosure Plaster Primer’ and two coats ‘Dulux Trade 100’ lowsheen paint**

2. On internal plastered walls in patches
   - Unit: m²
   - Quantity: 5

**ON METAL**

Scrub down with galvanised cleaner and one coat "Midas Metal Etch Primer" and one coat universal undercoat and two coats "Midas" high gloss enamel paint

3. On rails, bars, pipes, etc. not exceeding 300mm girth
   - Unit: m
   - Quantity: 1

**ON WOOD**

Two coats wood primer

4. On backs of frames, linings, etc. not exceeding 300mm wide
   - Unit: m
   - Quantity: 11

   **One coat "Durawood Primer”, one undercoat and two coats "Dulux Silthane silk” paint**

5. On skirtings, rails, etc. not exceeding 300mm girth
   - Unit: m
   - Quantity: 11

#### PAINTWORK ETC TO PREVIOUSLY PAINTED WORK

**Previously painted plastered surfaces**

Surfaces shall be thoroughly washed down and allowed to dry completely before any paint is applied. Blistered or peeling paint shall be completely removed and cracks shall be opened, filled with a suitable filler and finished smooth.

---

**Carried to Collection**

SECTION NO. 2
BILL NO. 13
PAINTWORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

-63-
Previously painted metal surfaces

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal

Previously painted wood surfaces

Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with suitable filler and finished smooth

ON PLASTER, ETC.

Two coats pure acrylic on work in good condition, including taking down and removing all existing wall hooks, fisher plugs, etc.

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Existing smooth plastered internal walls</td>
<td>m2</td>
<td>160</td>
</tr>
<tr>
<td>7</td>
<td>Existing painted internal ceiling and coverstrips</td>
<td>m2</td>
<td>126</td>
</tr>
<tr>
<td>8</td>
<td>Existing painted external ceiling and coverstrips</td>
<td>m2</td>
<td>12</td>
</tr>
</tbody>
</table>

Two coats "Plascon Wall 'n All" on work in good condition

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>On existing external smooth plastered walls</td>
<td>m2</td>
<td>216</td>
</tr>
<tr>
<td>10</td>
<td>On rails, bars, pipes, gutters, etc. not exceeding 300mm girth</td>
<td>m</td>
<td>5</td>
</tr>
</tbody>
</table>

ON METAL

Clean off paint from existing steelwork and apply one coat NS4 primer one undercoat and two finishing coats "Plascon Velvaglo" paint including reputting as required

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>On door frames</td>
<td>m2</td>
<td>34</td>
</tr>
<tr>
<td>12</td>
<td>On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)</td>
<td>m2</td>
<td>31</td>
</tr>
<tr>
<td>13</td>
<td>On windows with glazing bars including the replacement of loose putty</td>
<td>m2</td>
<td>81</td>
</tr>
</tbody>
</table>

ON WOOD

Carried to Collection

SECTION NO. 2
BILL NO. 13
PAINTWORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>On doors</td>
<td>m²</td>
<td>77</td>
</tr>
<tr>
<td>15</td>
<td>On door frames etc.</td>
<td>m²</td>
<td>9</td>
</tr>
<tr>
<td>16</td>
<td>On cupboard shelves</td>
<td>m²</td>
<td>31</td>
</tr>
<tr>
<td>17</td>
<td>On roof timber at eaves and verges</td>
<td>m²</td>
<td>99</td>
</tr>
</tbody>
</table>

**Two coats varnish on previously varnished surfaces in good condition**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>On skirtings, rails, etc. not exceeding 300mm girth</td>
<td>m</td>
<td>115</td>
</tr>
</tbody>
</table>

**ON FIBRE CEMENT**

**Clean down and apply two coats acrylic roof paint on existing**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>On fibre cement widow sills internally, not exceeding 300mm girth</td>
<td>m</td>
<td>14</td>
</tr>
<tr>
<td>20</td>
<td>On fibre cement widow sills externally, not exceeding 300mm girth</td>
<td>m</td>
<td>24</td>
</tr>
<tr>
<td>21</td>
<td>On fibre cement gutters, pipes, etc. not exceeding 300mm girth</td>
<td>m</td>
<td>31</td>
</tr>
</tbody>
</table>

Carried to Collection

SECTION NO. 2
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PAINTWORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
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BILL NO. 13
PAINTWORK

COLLECTION

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PAINTWORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>BILL NO. 14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXTERNAL WORKS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SITE CLEARANCE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Site clearance, etc.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>m2</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Digging up and removal of rubbish, debris, vegetation, hedges, shrubs and trees not exceeding 200mm girth, bushes etc,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taking out and removing, grubbing up roots and filling in holes</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>No</td>
<td>2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tree stump not exceeding 1m high, exceeding 200mm and not exceeding 500mm girth</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tree stump not exceeding 1m high, exceeding 500mm and not exceeding 1m girth</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>PAVING</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Breaking up and removing unreinforced concrete</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>m2</td>
<td>35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>100mm Thick unreinforced concrete slab</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>New precast concrete pavers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>m2</td>
<td>38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>50mm Bond block natural coloured cement paver (35MPa) size 200 x 100mm laid to falls on and including a 25mm sand bedding with the interstices between filled in with fine material to present a uniform surface</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CARRIED FORWARD TO SUMMARY OF SECTION NO. 2</td>
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<tr>
<td>SECTION NO. 2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>BILL NO. 14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>EXTERNAL WORKS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
BILL NO. 15

ELECTRICAL INSTALLATION (PROVISIONAL)

LIGHTING AND POWER POINTS IN "LUMEX" CLIPSAL S2000 SERIES

Note: The following items to include conduit boxes, 20mm PVC conduit, insulated conductors and chasing brickwork or concrete

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Extra over light point for 16 Amp one-lever one-way switch and coverplate</td>
<td>No</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Single plug point complete with 16 Amp 3-pin single switch socket outlet and coverplate</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Double plug point complete with 16 Amp 3-pin double switched socket outlet and coverplate</td>
<td>No</td>
<td>5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Stove isolator point complete with flexible conduit</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Allow for connecting of hob and undercounter oven</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Chase in conduit and 50 x 100mm box and reinstall heat pump control panel including blank cover plate</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Take out existing switches, plugs, etc. and replace with new Clipsal 2000 fittings

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>16 Amp one-lever one-way switch and coverplate</td>
<td>No</td>
<td>7</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Double plug point complete with 16 Amp 3-pin double switched socket outlet and coverplate</td>
<td>No</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Sundries

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Take off and isolate old stove point</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Attend to existing wiring from existing light fitting box to switch</td>
<td>No</td>
<td>1</td>
<td></td>
<td></td>
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</table>

LIGHT FITTINGS

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Allow the Prime Cost amount of R300.00 (Three hundred Rand) for a new light fitting</td>
<td>No</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Add for profit as last item if required</td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carried to Collection R

SECTION NO. 2
BILL NO. 15
ELECTRICAL INSTALLATION ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC. KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>Single switch coverplate only</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>14</td>
<td>Glass cover of light fitting (exterior light fitting above kitchen doorway)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>15</td>
<td>Surface mounted wall light fitting with lamps</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td><strong>Sundries</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>Take off existing wall mounted light fitting and fit new fittings (New fitting elsewhere)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>Take off existing light switch cover and fit new coverplate (New fitting elsewhere)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>18</td>
<td>Take off existing ceiling mounted fitting and fit new fittings (New fitting elsewhere)</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>19</td>
<td>Re-fit existing light fitting glass cover to existing internal light fitting</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td>20</td>
<td>Issue of Compliance Certificates to each building</td>
<td></td>
<td>1</td>
</tr>
</tbody>
</table>

**COMPLIANCE CERTIFICATE**

- Issue of Compliance Certificates to each building

---

**Carried to Collection**

SECTION NO. 2
BILL NO. 15
ELECTRICAL INSTALLATION ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

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<table>
<thead>
<tr>
<th>Page No</th>
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<tbody>
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<td>-68-</td>
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<tr>
<td>-69-</td>
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</tbody>
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CARRIED FORWARD TO SUMMARY OF SECTION NO. 2
SECTION NO. 2
BILL NO. 15
ELECTRICAL INSTALLATION ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC. KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
## Provisional Sums

### Venetian Blinds

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Item</td>
<td></td>
<td></td>
<td>25 000</td>
</tr>
</tbody>
</table>

Allow the selected sub-contract amount R25 000.00 (Twenty Five Thousand Rand) for supply and fixing of venetian blinds.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add for profit on the above if required.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Allow for attendance on the selected sub-contractor installing the blinds.

### Free-Standing Fireplace

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Item</td>
<td></td>
<td></td>
<td>10 000</td>
</tr>
</tbody>
</table>

Allow the selected sub-contract amount R10 000.00 (Ten Thousand Rand) for supply and installation of a Jetmaster 800 Hex Free-standing fireplace.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add for profit on the above if required.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Allow for attendance on the selected sub-contractor installing the free-standing fireplace unit.

### Prime Cost Amounts

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Item</td>
<td></td>
<td></td>
<td>5 000</td>
</tr>
</tbody>
</table>

Allow the selected sub-contract amount R5 000.00 (Five Thousand Rand) for the sub-contractor supplying and delivering to site the kitchen appliance.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Item</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Add for profit on the above if required.

### Contingency Amounts

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>Item</td>
<td></td>
<td></td>
<td>20 000</td>
</tr>
</tbody>
</table>

Allow the Amount of R20 000.00 (Twenty Thousand Rand) for contingencies of a general nature, to be expended as directed by the Architect.

---

**Kirstenbosch Botanical Gardens: Cape Town**
<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ALTERATIONS</td>
<td>-43-</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>CONCRETE, FORMWORK AND STEEL REINFORCEMENT</td>
<td>-44-</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>MASONRY</td>
<td>-45-</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>ROOF COVERINGS, ETC.</td>
<td>-46-</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>CARPENTRY AND JOINERY</td>
<td>-49-</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>FLOOR COVERINGS</td>
<td>-50-</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>IRONMONGERY</td>
<td>-51-</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>METALWORK</td>
<td>-54-</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>PLASTERING</td>
<td>-55-</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>TILING</td>
<td>-58-</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>PLUMBING AND DRAINLAYER</td>
<td>-61-</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>GLAZING</td>
<td>-62-</td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>PAINTWORK</td>
<td>-66-</td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>EXTERNAL WORKS</td>
<td>-67-</td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>ELECTRICAL INSTALLATION</td>
<td>-70-</td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>PROVISIONAL SUMS</td>
<td>-71-</td>
<td></td>
</tr>
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CARRIED TO FINAL SUMMARY

SECTION NO. 2
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>BILL NO. 1</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>HOUSE 11 BUILDING WORKS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ALTERATIONS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Taking out and removing ironmongery</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Steel curtain rail 900mm long from tiled walls and make good holes with tile grout</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Taking up and removing vinyl floor coverings, carpeting, etc</td>
<td>m2</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>FLOOR COVERINGS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;FloorworX Autograph Luxury Vinyl planks (LVPs)&quot; 5mm thick x 228.6mm wide and 1219mm long laid on and including rubber underlay (Code AGP002 Pinot Grey)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>On floors including cutting between existing skirtings</td>
<td>m2</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Aluminium floor trim to doorways between differing floor finishes</td>
<td>m</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>SHOWER SCREEN</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Shower screens formed of clear glass in accordance with the National Building Regulations and sealed to a watertight finish</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>White aluminium framed &quot;Kal Tri-panel&quot; sliding shower door 754 x 1850mm high</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>SANITARY FITTINGS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>&quot;Mend-a-Bath&quot; re enameling of existing steel bath</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>BUILT-IN FIREPLACE</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Allow the selected sub-contract amount R15 000,00 (Fifteen Thousand Rand) for supply and installation of a Jetmaster 800 Hex Free-standing fireplace</td>
<td>Item</td>
<td>15 000 00</td>
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</tr>
</tbody>
</table>

Carried to Collection

R

SECTION NO. 3
BILL NO. 1
HOUSE 11 BUILDING WORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
8 Add for profit on the above if required

9 Allow for attendance on the selected sub-contractor installing the free-standing fireplace unit
<table>
<thead>
<tr>
<th>Page No</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>-73-</td>
<td></td>
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<tr>
<td>-74-</td>
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SECTION NO. 3
BILL NO. 1
HOUSE 11 BUILDING WORK

CARRIED TO FINAL SUMMARY

SECTION NO. 3
BILL NO. 1
HOUSE 11 BUILDING WORK
ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
### BILL NO. 1

**RENOVATIONS OF EXISTING KITCHEN AT EXISTING GARDEN OFFICE**

**REMOVAL OF EXISTING WORK**

Taking out and set aside for re-use existing door, etc., including thresholds, etc. and building up openings in brick walls including making good cement plaster on both sides (making good paintwork elsewhere)

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
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<td>1</td>
<td></td>
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</tr>
<tr>
<td>2</td>
<td></td>
<td>1</td>
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<td></td>
</tr>
</tbody>
</table>

**OPENINGS THROUGH EXISTING WALLS ETC**

Breaking out for and forming openings through brick walls for and build in door previously set aside for re-use and rehang door, fit fanlight, jamb lining and architraves both sides including necessary precast concrete lintels and making good cement plaster to both sides (making good paint work both sides elsewhere)

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
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<tbody>
<tr>
<td>3</td>
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**LIGHTING AND POWER POINTS IN "LUMEX" CLIPSAL S2000 SERIES**

<table>
<thead>
<tr>
<th>Item No</th>
<th>Unit</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
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<tr>
<td>4</td>
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CARRIED TO FINAL SUMMARY

SECTION NO. 4

BILL NO. 1

RENOVATIONS OF EXISTING KITCHEN AT EXISTING GARDEN OFFICE ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.

KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN
# FINAL SUMMARY

<table>
<thead>
<tr>
<th>Section No</th>
<th>Section</th>
<th>Page No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PRELIMINARIES</td>
<td>-39-</td>
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<td>HOUSE 13</td>
<td>-72-</td>
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</tr>
<tr>
<td>3</td>
<td>HOUSE 11</td>
<td>-75-</td>
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</tr>
<tr>
<td>4</td>
<td>GARDEN OFFICE</td>
<td>-76-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SUB TOTAL</td>
<td></td>
<td>R</td>
</tr>
<tr>
<td></td>
<td>VALUE ADDED TAX @ 14%</td>
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<td>R</td>
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</tbody>
</table>

CARRIED TO FORM OF TENDER

ALTERATIONS AND UPGRADE TO HOUSE 13, 11, ETC.
KIRSTENBOSCH BOTANICAL GARDENS: CAPE TOWN

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