Provisional Bills of Quantities
**ITEM NO.**

**BILL NO. 1**

**PRELIMINARIES**

**PRINCIPAL BUILDING AGREEMENT**

The agreement shall be the Principal Building Agreement prepared and published by the Joint Building Contracts Committee: Edition 5.0 Code 2101, July 2007 (The JBCC Series 2000 Principal Building Agreement).

**SYSTEM OF MEASURING BUILDING WORK**

The system of measuring building work applicable to these works is the Standard System of Measuring Building Work 1999, as published by The Association of South African Quantity Surveyors, Sixth Edition (Revised).

**PRELIMINARIES**

The Preliminaries shall be the ASAQS Preliminaries (November 2007) published by the Association of South African Quantity Surveyors for use with the said JBCC Principal Building Agreement.

**FULL INTENT AND MEANING OF CLAUSES**

Tenderers shall be deemed to have referred to the aforementioned documents for the full intent and meaning of each clause. These clauses are hereinafter referred to by the heading and clause number only.

Where standard clauses, or alternatives, are not entirely applicable to this contract, such modifications, corrections, or supplements, as are necessary are given under each relevant clause heading and such modifications, corrections, or supplements, shall take precedence, notwithstanding anything to the contrary contained in the above-mentioned documents.

Where an item is not relevant to this specific contract, 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 which are fully described in the said Model Preambles will be entertained.

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

The contractor's prices for all items throughout these bills of quantities must take account of, and include for, all of the obligations, requirements and specifications given in the said Model Preambles and in any supplementary preambles.

**PRICING OF CLAUSES**

Tenderers shall allow opposite each clause for any cost involved with complying with such clause. Any clauses left unpriced shall be deemed to be covered by rates and prices elsewhere incorporated throughout these bills of quantities.

**PAYMENT CATEGORIES**

Should "Option A", in terms of subclause 3.2.1 of the Contract Data - Contractor to Employer (CE), be used for the adjustment of Preliminaries, then each item priced is to be allocated to one or more categories by the insertion of the letter "F", "V", or "T", as the case may be, against the price in the rate column. These letters shall indicate the relevant categories, as follows:

- "F" - A fixed amount, which shall not be varied.
- "V" - An amount which shall be varied in proportion to the contract value.
- "T" - An amount which shall be varied in proportion to the construction period.

**SECTION A : JBCC PRINCIPAL BUILDING AGREEMENT**

**DEFINITIONS**

1 Definitions and interpretation. Clause 1.0 Item

2 Offer, acceptance and performance obligations. Clause 2.0 Item

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3  Documents.

Clause 3.3 is hereby amended by deleting the words, "... within seven (7) calendar days of having received a payment guarantee from the employer in terms of 3.1", in the first sentence and substituting with, "... within fourteen (14) calendar days of written acceptance of the contractor's tender." The second sentence shall remain unchanged.

Clause 3.0  Item

4  Design responsibility.

The following new subclause is hereby added to this clause:

4.4  Notwithstanding the provisions of 4.2, the contractor shall ensure that every such nominated, or selected, subcontractor shall simultaneously with the signing of the relevant nominated, or selected, subcontract sign and deliver to the employer a Design, Materials and Workmanship Warranty and Undertaking in favour of the employer, or a Materials and Workmanship Undertaking, strictly in accordance with the instructions, or provisions, contained in the tender documents for the nominated, or selected, subcontract works.

Clause 4.0  Item

5  Employer's agents.

Clause 5.0  Item

6  Contractor's site representative.

Clause 6.0  Item

7  Compliance with laws and regulations.

The following new subclause is hereby added to this clause:

7.2  Without limiting the generality of the provisions of clause 7.0 of the Agreement, the contractor's attention is drawn to the provisions of the Construction Regulations, 2003, issued in terms of the Occupational Health and Safety Act, 1993. 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.

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<td>Works risk. Clause 8.0 Item</td>
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<td>Assignment. Clause 13.0 Item</td>
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<td>14</td>
<td>Security. Clause 14.0 Item</td>
</tr>
<tr>
<td><strong>EXECUTION</strong></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>Preparation for and execution of the works. Clause 15.0 Item</td>
</tr>
<tr>
<td>16</td>
<td>Site and access.</td>
</tr>
<tr>
<td></td>
<td>The following shall be added to subclause 16.7:</td>
</tr>
<tr>
<td></td>
<td>The tenderer must obtain the extent of existing known services and points of connections from the principal agent before submission of the tender. Clause 16.0 Item</td>
</tr>
<tr>
<td>17</td>
<td>Contract instructions. Clause 17.0 Item</td>
</tr>
<tr>
<td>18</td>
<td>Setting out of the works.</td>
</tr>
<tr>
<td></td>
<td>The following new subclause is hereby added to this clause:</td>
</tr>
<tr>
<td></td>
<td>18.5 The contractor shall notify the principal agent if any encroachments of adjoining foundations, buildings, structures, pavements, boundaries, etc., exist in order that the necessary arrangements may be made for the rectification of any such encroachments. Clause 18.0 Item</td>
</tr>
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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>19.0</td>
<td>Temporary works and plant. Clause 19.0</td>
</tr>
<tr>
<td>20.0</td>
<td>The following shall be added to subclause 19.2: Clause 19.0 Item</td>
</tr>
<tr>
<td>21.0</td>
<td>Nominated subcontractors. Clause 20.0 Item</td>
</tr>
<tr>
<td>22.0</td>
<td>Selected subcontractors. Clause 21.0 Item</td>
</tr>
<tr>
<td>23.0</td>
<td>Employer's direct contractors. Clause 22.0 Item</td>
</tr>
<tr>
<td>24.0</td>
<td>Contractor's domestic subcontractors. Clause 23.0 Item</td>
</tr>
</tbody>
</table>

**COMPLETION**

<table>
<thead>
<tr>
<th>Clause</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>25.0</td>
<td>Practical completion. Clause 24.0 Item</td>
</tr>
<tr>
<td>26.0</td>
<td>Works completion. Clause 25.0 Item</td>
</tr>
<tr>
<td>27.0</td>
<td>Final completion. Clause 26.0 Item</td>
</tr>
<tr>
<td>28.0</td>
<td>Latent defects liability period. Clause 27.0 Item</td>
</tr>
<tr>
<td>29.0</td>
<td>Sectional completion. Clause 28.0 Item</td>
</tr>
</tbody>
</table>

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30 Revision of date for **practical completion**.

Subclause 29.1.1 is hereby deleted and substituted by the following:-

Exceptionally inclement weather, which shall only relate to weather with a degree of inclemency which is materially greater than, or is materially beyond, the average inclemency experienced in the past five years and/or recorded, in terms of available records, or otherwise, at, or for, the area in which the **site** is situated, for the period(s) in question. Any revision of date for **practical completion** which may, in terms of this clause, be allowed for exceptionally inclement weather, shall be related only to those periods of exceptionally inclement weather by which the average periods of time, during which exceptionally inclement weather is experienced and/or recorded in the area in which the **site** is situated, is exceeded. The **contractor** is therefore to make allowance for normal vagaries of the weather.

Clause 29.0 Item

31 **Penalty** for late or noncompletion.

Clause 30.0 Item

**PAYMENT**

32 Interim payment.

Notwithstanding this, or any other, clause, materials and goods stored off **site** shall not be included in the amount authorised for payment.

The following new subclause is hereby added to this clause:-

31.6.6 Notwithstanding what is stated elsewhere in this clause, and elsewhere in these conditions, and without altering any of such conditions, the value of **materials and goods** shall only be included for any interim payment if the **contractor** submits, and signs, a detailed itemised schedule in the prescribed format of Annexes (C) as described hereinafter. If the **contractor** fails to meet this requirement, the **principal agent** shall make the requisite fair and reasonable assessment of such **materials and goods** and the **contractor** shall be hereby deemed to be bound by such evaluation, without further claim for payment in this regard.

Subclause 31.9 is hereby amended by the substitution of the words, "seven (7) calendar days", in the first line by the words, "fourteen (14) calendar days".

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

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3711-J07-13 **PROVISIONAL BILL OF QUANTITIES**
Subclause 31.10 is hereby amended by the substitution of the words, "practical completion", in the second and fourth lines by the words, "final completion".

Clause 31.0

Item

Adjustment to the contract value.

Notwithstanding the provisions of subclause 32.13, or any other clause, all fluctuations in costs shall be for the account of the contractor.

The following new subclause 32.16 is added to this clause:

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

Clause 32.0

Item

Recovery of expense and loss.

Clause 33.0

Item

Final account and final payment.

Subclause 34.11 is hereby amended by the substitution of the words, "practical completion", in the fourth line by the words, "final completion".

Clause 34.0

Item

Payment to other parties.

Clause 35.0

Item

TERMINATION

Termination by employer - contractor's default.

Clause 36.0

Item

Termination by employer - loss and damage.

Clause 37.0

Item

Termination by contractor - employer's default.

Clause 38.0

Item

Termination - cessation of the works.

Clause 39.0

Item

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DISPUTE

42 Settlement of disputes.  
Clause 40.0  
Item

CONTRACT AGREEMENT

43 Post tender provisions  
The required post tender information shall be completed prior to contract signing, in consultation with the contractor.  
Clause 41.0  
Item

44 Contractual agreement  
The required information regarding the contractual parties and the accepted contract sum shall be inserted at contract signing.  
Clause 42.0  
Item
CONTRACT DATA - EMPLOYER TO CONTRACTOR

Given hereunder are all variables referred to in the Principal Building Agreement and which are set out in “Contract Data EC”, prepared and published by the Joint Building Contracts Committee: Edition 5.0 Code 2101-EC, July 2007.

Clause

(and reference)

1.0 CONTRACTING AND OTHER PARTIES

1.1 Employer SA Tourism

Postal address Private Bag X1

Sandton

Code 2146

Telephone (+27)11-895-3151

Fax (+27)86-611-2452

E-mail moira@southafrica.net

Tax/VAT registration No.: TBC

Physical address Bojanala House, 90 Protea Road, Chiselhurston, Sandton

1.2 Principal Agent (1) Exellerate Property Services - JHI Project Management

Postal address Private Bag X45

Benmore

Code 2010

Telephone +27 11 911 8272

Fax +27 866 83 3983

E-mail Beukes.VanHeerden@jhi.co.za

Carried to Collection
1.3 **Agent (1)** Neill Powell Neill Architects (Pty) Ltd

**Agent's service** Architects

**Postal address** P.O. Box 55260
Northlands

**Code** 2116

**Telephone** +27 (11) 782-3333

**Fax** +27 (11) 782-3334

**E-mail** sue@npn.co.za

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1.4 **Agent (2)** AECOM

**Agent's service** Quantity Surveyors

**Postal address** P.O. Box 1642
Houghton

**Code** 2041

**Telephone** +27 (0) 11 666 2000

**Fax** +27 (0) 86 650 0711

**E-mail** philip.bosman@aecom.com

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1.9 **Interest of the principal agent, or other agents, in the project**

**YES**

---

1.10 The **principal agent** named in 1.2 above is responsible for the preparation of the **contract data schedule** and must be contacted should the **contractor** be uncertain of the information provided, or to be provided.

---

2.0 **CONTRACT AND SITE INFORMATION:**

2.1 The law applicable to this **agreement**

**South Africa**

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**Bill No. 1**

**Preliminaries**

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2.2 **Works identification.**

In general terms the works comprise the construction of an adjoining single level parking basement on the existing site together with associated external works.

2.3 **Site description**

The site is located at Bojanala House 90 Protea Road Chislehurston South Africa

2.4 Possession of the site is to be given on 

(15.2.1) 1 July 2015

2.5 Period for the commencement of the works after 

the contractor takes possession of the site 

Immediately

2.6 Completion of the works in sections is required. 

(15.4, 28.0) NO

2.7 Waiver of the contractor’s lien, or right of continuing possession, is required. 

(3.3, 31.16.2) Yes

2.8 Defined restrictions to the site area. Where “yes” the specific requirements are described below: 

YES

Tenderers are to confirm the office park access control procedures, after hours access times to be allowed for by SA Tourism and specific site restrictions as determined by SA Tourism.

Existing ablution facilities may not be used by the contractor (contractor to provide portable toilets to be placed in area to be agreed with client).

The location of the contractor’s storage / delivery area is to be agreed with SA Tourism. The site is a “live” site, so the contractor shall erect the necessary hoarding to enable the undisturbed continuation of ongoing operations.

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2.9 Geotechnical investigation of the site has been undertaken. Where "yes" the results are included in the contract documents.

NO

2.10 Existing premises will be occupied. Where "yes" the specific requirements are described below:

YES

All demolitions to take place after hours. Contractor is to allow for necessary hording/barriers etc on the exposed side of construction works and demarcating construction areas in order to prevent and safeguard the tenants from potential injuries.

2.11 Provision of temporary services is required. Where "yes" the specific requirements are detailed elsewhere in the contract documents (refer to Section B; Preliminaries)

Yes

2.12 Protection of existing trees or shrubs is required. Where "yes" the specific requirements are described below:

NO

3.0 INSURANCES AND SECURITIES

3.1 Contract works insurance to be effected by:

Employer

For the sum of: Contract sum plus 20%

with a deductible of: TBC

3.2 Supplementary/Special insurance to be effected by

Employer

3.3 Public liability insurance to be effected by:

Contractor

For the sum of: R 20 000 000

with a deductible of: By Contractor

3.4 Support insurance to be effected by the contractor:

TBA

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3.5 Special insurance to be effected by: (11.1.2-3, 12.1)

TBA

4.0 PRACTICAL COMPLETION DATE AND PENALTIES

4.1 For the works as a whole (24.3.1, 30.1-3) The date for practical completion and the penalty per calendar day

<table>
<thead>
<tr>
<th>Date</th>
<th>Penalty Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 December 2015</td>
<td>R 10 000 per day</td>
</tr>
</tbody>
</table>

5.0 DOCUMENTS AND GENERAL

5.1 Construction document copies to be supplied to the contractor free of charge. Number of 3 (Three)

5.2 The priced document may be used as a specification of materials and goods and work methods. No

5.3 The contractor shall provide a schedule of rates No

5.4 Changes made to JBCC standard documents (refer to clause 6.0 below) Yes

5.5 On acceptance of the tender, the priced document is (15.1.1) to be submitted within the stated working days. With tender

5.6 Work to be undertaken by direct contractors is expected, as follows:- No

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5.7 On achievement of **practical completion** the contractor is to hand over manuals, etc., related to the works as listed hereunder:

1) Plumbing and drainage  
2) Electrical work  
3) Mechanical work  
4) Waterproofing  
5) COC

5.8 Interim **payment certificate** to be issued by (date): (31.1)  
Date of month: 30th

6.0 **DETAILS OF CHANGES MADE TO THE STANDARD JBCC DOCUMENT**

All changes in detail are as listed below:

A **JBCC Principal Building Agreement**

Subclause 3.3 amended  
Subclause 4.4 added  
Subclause 7.2 added  
Subclause 16.7 amended  
Subclause 18.5 added  
Subclause 19.2 amended  
Subclause 29.1.1 substituted  
Subclause 31.6.6 added  
Subclause 31.9 amended  
Subclause 31.10 amended  
Subclause 32.16 added  
Subclause 34.11 amended

B **Standard ASQS Preliminaries Document**

Subclause 2.3 amended  
Subclause 4.1 amended  
Subclause 4.3 amended  
Subclause 9.3 amended

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7.0 DECLARATION BY THE PRINCIPAL AGENT

I, the principal agent named in 1.2 above, declare that the information provided above is complete and accurate at the time of calling for tenders. Where necessary, should any of the above information need to be varied, tenderers will be forthwith informed thereof in writing.

Principal Agent:..........................Date:..........................
### SECTION B: ASAQS PRELIMINARIES

#### 1.0 DEFINITIONS AND INTERPRETATION

<table>
<thead>
<tr>
<th>Clause</th>
<th>Item</th>
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<tbody>
<tr>
<td>1.0</td>
<td>Item</td>
</tr>
<tr>
<td>47</td>
<td>Definitions and interpretation.</td>
</tr>
</tbody>
</table>

#### 2.0 DOCUMENTS

<table>
<thead>
<tr>
<th>Clause</th>
<th>Item</th>
</tr>
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<tbody>
<tr>
<td>2.1</td>
<td>Item</td>
</tr>
<tr>
<td>48</td>
<td>Checking of documents.</td>
</tr>
<tr>
<td>2.2</td>
<td>Item</td>
</tr>
<tr>
<td>49</td>
<td>Provisional <em>bills of quantities</em>.</td>
</tr>
<tr>
<td>2.3</td>
<td>Item</td>
</tr>
<tr>
<td>50</td>
<td>Availability of construction documentation.</td>
</tr>
</tbody>
</table>

The budgetary allowances and selected, or nominated, subcontract amounts allocated for subsequent trades included in this document will be separately procured, based on multiple procurement of selected, or nominated, subcontractors during the construction period.

#### 3.0 PREVIOUS WORK AND ADJOINING PROPERTIES:

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>3.1</td>
<td>Item</td>
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<tr>
<td>51</td>
<td>Previous work - dimensional accuracy.</td>
</tr>
<tr>
<td>3.2</td>
<td>Item</td>
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<tr>
<td>52</td>
<td>Previous work - defects.</td>
</tr>
<tr>
<td>3.3</td>
<td>Item</td>
</tr>
<tr>
<td>53</td>
<td>Inspection of adjoining properties.</td>
</tr>
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</table>

No additional specific requirements

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4.0 SAMPLES, SHOP DRAWINGS AND MANUFACTURER’S INSTRUCTIONS

54 Samples of materials.

Clause 4.1 is hereby amended by the addition of the following:

The principal agent may reject any materials, or colours, not corresponding with the approved samples. The approved samples shall be kept on site until completion of the works.

Should any materials, or items, specified prove to be either unavailable, in poor supply, or likely to cause delay to the works, the contractor shall notify the principal agent in writing in sufficient time for suitable alternatives to be considered. Any claims for delays resulting from the contractor not conforming with the terms of this clause will not be entertained, or allowed.

Clause 4.1 Item

55 Workmanship samples.

Clause 4.2 Item

56 Shop drawings

Clause 4.3 is hereby amended by the addition of the following:

General responsibilities

The contractor shall provide a person, or persons, who shall be available immediately upon commencement of the contract, whose responsibility will be:

a) To familiarise himself with all drawings produced by the professional team. This will involve a clear understanding of services and element co-ordination performed by the architect, in order that subcontractors can be properly briefed.

b) To provide the professional team with comprehensive lists of shop drawings to be prepared by relevant subcontractors.

c) To check all shop drawings for sufficiency prior to submission to the relevant consultant in the professional team. It is expected that such checking will include all co-ordination and pro-active resolution of any conflicting services and elements.

It is also noted that resolution of co-ordination problems will require attendance at services and element co-ordination meetings, called by the principal agent as, and when, necessary.

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Procedures

The contractor shall, at his own expense, prepare and submit one reproducible print of shop drawings of all fabricated work, working, or setting out, drawings, shop details and schedules to the principal agent for approval by the relevant consultant/s and/or the employer, as is appropriate, and such work shall not be performed by the contractor until such approval has been given. The contractor shall take cognizance of, and adhere to, the Project Document Numbering System, if any, in use on this contract.

The contractor shall present a complete schedule showing the sequence of submission of shop drawings, including submission dates, for all trades and the scheduled dates for approval of all drawings. This schedule shall take into account that the relevant consultant/s and the employer reserve a two weeks check period from the date of the receipt of all shop drawings and/or catalogue data.

All submissions shall be on dates as indicated in the above schedule and sufficiently in advance to permit the contractor to meet fabrication deadlines; no claim for extensions to the contract time will be granted to the contractor by reason of his failure in this respect.

The contractor shall submit four copies of catalogues and data for approval. The contractor shall check all submissions for conformity with the contract drawings and specifications and correct any errors, omissions, or deviations before their transmission to the principal agent.

All submissions shall bear the contractor's dated stamp of approval as evidence that they have been so checked and corrected by the contractor. Any drawings, schedule or catalogue submitted without this stamp will not be considered by the principal agent and will be returned.

When the principal agent advises the contractor that shop drawings have been approved, he shall immediately submit to the principal agent the original transparencies of such drawings so that the principal agent's stamp of approval may be appended thereto. Thereafter the contractor shall furnish to the principal agent four prints of the approved shop drawings, setting out drawings and schedules. The contractor shall also furnish to the works as many prints of the approved shop drawings and schedules as may be required. No work shall be performed from any shop drawings and/or catalogues not stamped with the principal agent's approval.

The contractor shall be responsible for ensuring that all dimensions confirm to the dimensions of built work.

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The principal agent's approval of any document, or drawing, shall not in any way vary his contractual, or delictual, obligations and liabilities to the employer, or any other party, nor does it vary the contractual, or delictual, obligations and liabilities of the party submitting such document, or drawing, for approval.

If the submissions differ from the requirements of the contract, the contractor shall make specific mention of each difference in his letter of transmission with a request for substitution, together with his reasons for same, in order that, if acceptable, suitable action may be taken by the principal agent. Otherwise the contractor will not be relieved of the responsibility for executing the work in accordance with the requirements of the contract.

Corrections of shop drawings by the principal agent shall not change the scope of work. Should any such correction be considered to constitute a change of scope of work, the contractor shall notify the principal agent in writing within not more than seven calendar days of such change and shall not proceed with the fabrication until so authorised by the principal agent. Claims for change of scope made after performance of the work constituting the claimed change of scope will not be considered.

Unless otherwise agreed with the principal agent, shop drawings shall be prepared to show all details of installation, including reticulation, fixing, etc., of all components and assemblies, or if the contractor desires to deviate from the design, and these drawings shall all be in accordance with the above procedures and at the contractor's expense.

Clause 4.3  Item 57  Compliance with manufacturers' instructions.

 Clause 4.4  Item 5.0  DEPOSITS AND FEES

 Clause 5.1  Item 58  Deposits and fees.

 Clause 6.1  Item 6.0  TEMPORARY SERVICES

 Clause 6.2  Item 59  Water.

 Carried to Collection

 Bill No. 1

 Preliminaries

 SA TOURISM EXTENSION TO BASEMENT

 3711-J07-13 PROVISIONAL BILL OF QUANTITIES
61 Telecommunication facilities. Clause 6.3 Item
62 Ablution facilities. Clause 6.4 Item

7.0 PRIME COST AMOUNTS
63 Responsibility for prime cost amounts. Clause 7.1 Item

8.0 SPECIAL ATTENDANCE ON N/S SUBCONTRACTORS
64 Special attendance. Clause 8.1 Item

9.0 GENERAL
65 Protection of the works. Clause 9.1 Item
66 Protection/isolation of existing sezlonally occupied works. Clause 9.2 Item
67 Security of the works.

The contractor shall provide and maintain twenty four hour site security and loss control systems all to the satisfaction of the principal agent. It is envisaged that these procedures will incorporate, inter alia, gate control for personnel and vehicles, individual entry permits, regular security patrols and the like. Clause 9.3 Item

68 Notice before covering work. Clause 9.4 Item
69 Disturbance. Clause 9.5 Item
70 Environmental disturbance. Clause 9.6 Item
71 Works cleaning and clearing. Clause 9.7 Item
72 Vermin. Clause 9.8 Item

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Bill No. 1
Preliminaries
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
### SCHEDULE OF VARIABLES

**PRE-TENDER INFORMATION**

Pre-tender variables are given hereunder:

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<th>Clause (and reference)</th>
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<tr>
<td>10.1 (2.2) Provisional bills of quantities.</td>
<td>The quantities are provisional.</td>
<td>Yes</td>
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<tr>
<td>10.2 (2.3) Availability of construction documentation.</td>
<td>Construction documentation is complete.</td>
<td>No</td>
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<tr>
<td>10.3 (3.1) Previous work - dimensional accuracy.</td>
<td>The contractor shall inspect the site condition for construction purposes and report.</td>
<td></td>
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<tr>
<td>10.4 (3.2) Previous work - defects.</td>
<td>The contractor shall inspect and report.</td>
<td></td>
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<tr>
<td>10.5 (3.3) Inspection of adjoining properties.</td>
<td>No additional specific requirements.</td>
<td></td>
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**Item 10.6 Water**

- **Option A** (by contractor) - No
- **Option B** (by employer - free of charge) - No
- **Option C** (by employer - metered) - Yes

**Item 10.7 Electricity**

- **Option A** (by contractor) - No
- **Option B** (by employer - free of charge) - No
- **Option C** (by employer - metered) - Yes

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10.8 Telecommunications

- Telephone: Yes
- Facsimile: Yes
- E-mail: Yes

10.9 Ablution facilities

- Option A (by contractor): Yes
- Option B (by employer): No

10.10 Protection of the Works

No specific requirements.

10.11 Protection/isolation of existing sectionally occupied works.

This is a "live" site so the existing occupied works are to be protected.

10.12 Disturbance

Whilst the contractor shall abide by the local Building Regulations and Bye-laws, and the employer shall not impose restrictions upon the contractors working hours, the contractor shall minimize noisy operations during normal business hours. This will therefore mean using only "silent" compressors and strict control of the noise made by workmen.

The tenderers attention is drawn to the fact that all wet work demolitions must take place after hours and in a sequence to be agreed with SA Tourism in order to accommodate the tenants.

NOTE: All escape ways and circulation of tenants to remain open and accessible.

10.13 Environmental disturbance.

Products and services that pose a potential environmental risk must be managed in accordance with the applicable stipulations of the Environmental Management Standards (ISO14000).

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SECTION C: SPECIFIC PRELIMINARIES

SUPPLEMENTARY DOCUMENTATION

77 As built drawings.

The position of construction breaks and the extent of individual concrete pours are to be recorded by the contractor on the structural engineer’s drawings and are to be submitted to the principal agent and the structural engineer for their records.

78 Site instructions.

Contract instructions issued on site are to be recorded in triplicate in an instruction book which is to be maintained on site by the contractor.

THE SITE

Land Surveyor

79 Provide the budgetary amount of R 30,000.00 (Thirty Thousand Rand) for a survey of the site to be executed by a registered land surveyor to be nominated by the principal agent.

80 Profit

81 Allow for general attendance

Photographs of adjoining structures

82 Provide the budgetary amount of R 15,000.00 (Fifteen Thousand Rand) for the cost of certified photographs of adjoining structures, etc., to be taken at, or subsequent to, the inspections of nearby properties by a photographer to be nominated by the principal agent.

83 Profit

84 Allow for general attendance

MATERIALS AND WORKMANSHIP

Carried to Collection

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SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Testing of waterproofing to ensure watertightness

85 As waterproofing is completed, areas shall be prepared with small sand dykes around them of a size and enclosing an area approved by the principal agent, flooded with water and kept "ponded" for at least 36 hours as a test to ensure the watertightness of the waterproofing concerned before any further construction work is carried out above the waterproofing.

Mock-ups

86 Provide the budgetary amount of R 15,000.00 (Fifteen Thousand Rand) to cover the cost of full scale mock-ups of various elements of the project to be used as directed by the principal agent and deducted in whole, or in part, if not required.

Warranties for materials and workmanship

The contractor shall obtain written warranties where called for, addressed to the employer, from the firms supplying the materials, or doing the work, and deliver such warranties to the principal agent on the certified completion of the contract.

The warranties shall state that workmanship, materials and installation are guaranteed for a specified period reckoned from the date of certified completion of the works and that any defects in the workmanship, materials and installation that may arise during that period shall be made good at the expense of the firm doing the work upon written notice from the principal agent, or the employer, to do so.

FINANCIAL ASPECTS

Overtime

87 The additional costs of overtime work shall not be for the employer's account except when prior written agreement thereto is given by the principal agent.

Prices for variations

88 Where prices or quotations for variations are submitted by the contractor during the currency of the contract, it shall be clearly understood that these are for the purpose of consideration only and that there is not assumption of acceptance.

GENERAL

Carried to Collection

Bill No. 1
Preliminaries
SA TOURISM EXTENSION TO BASEMENT
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Copyright

The ownership of the copyright in, and to, all drawings, specifications, models and documents of any nature delivered to the contractor, or produced by, or on behalf of, the contractor in connection with the works, and, the artistic character, and/or artistic design of the works, shall remain vested in, and/or is hereby assigned to, the employer by the contractor.

Confidentiality

As the project is of a highly confidential nature, the contractor shall:
treat all drawings, specifications, models and documents of any nature delivered to the contractor, or produced by, or on behalf of, the contractor in connection with the works as being confidential;
keep secret and not directly, or indirectly, disclose, or divulge, to any person (except insofar as may be necessary in connection with the project) any information contained in the contract documents without the previous written consent of the principal agent;
not copy, photograph and/or repeat either wholly, or in part, any of the contract documents referred to above (except insofar as may be necessary in connection with the project);
return to the principal agent all contract documents issued herewith upon submission of the tender;
and, upon completion of the works, deliver to the principal agent all contract documents of any nature pertaining to the project.

SUMMARY OF CATEGORIES

Category "F": Fixed 
Category "V": Value 
Category "T": Time 

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Preliminaries

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Preliminaries
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
**SUPPLEMENTARY PREAMBLES**

**Blasting**

No blasting will be allowed without the prior written permission of the **principal agent**.
If blasting is necessary, the **contractor** shall protect the **works** and persons, animals and property in the vicinity of the **works**.
The **contractor** will be held responsible for any injury, or damage, caused by any blasting, or any other type of demolition methods and will be hereby deemed to have indemnified the **employer** and all the **employer's agents** against such responsibility, and any part of such responsibility.
The **contractor** will be required to make good such damage at his own expense, and to the **principal agent's** written approval.

**Keeping the works free of water**

The **contractor** shall protect the **works** from the ingress of water. Any water which occurs in the **works**, whether as a result of leaks, seepage, rain, or other causes, shall immediately be removed by baling, pumping, or other means approved in writing by the **principal agent**.

**Descriptions and preambles in other trades and bills in other sections of the works.**

If necessary, reference shall be made to other trades and preambles in other sections of the **works** for full preambles and full descriptions of items which might not be fully described in this bill, but which shall apply equally to the **works** in this bill, unless otherwise described.

### BILL NO. 2

**DEMOLITIONS AND ALTERATIONS**

**NOTE:** Tenderers are advised to study the Model Preambles for Trades before pricing this Bill.

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**SA TOURISM EXTENSION TO BASEMENT**

Bill No. 2
Alterations
3711-J07-13 PROVISIONAL BILL OF QUANTITIES

<table>
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<td>BILL NO. 2</td>
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</table>
General.

The tenderer is required to visit the site and satisfy himself as to the nature and extent of the works and the value of the work to be demolished, and to provide in his tender for any item not specifically mentioned, but which the tenderer might deem to be necessary for the proper execution and completion of the works.

[The attention of tenders is drawn to the fact that, unless otherwise stated, loose furniture, kitchen, and other, equipment, apparatus, machinery, etc., is to remain the property of the employer and its removal, or amendment, does not fall within the scope of this agreement.]

Tenderers are advised that parts of the existing buildings on the site, including parts of the existing water supply reticulation and sanitary waste systems, may be in use during the construction period. Any necessary proposed disruption, disconnection, etc., must be made as directed by the principal agent and in such a manner as to cause minimum inconvenience to the occupants of the affected areas of the site. Unless otherwise instructed, the contractor shall give at least thirty-six hours written notice of any planned disruption.

The contractor shall provide all shoring, needling, strutting, and whatever else may be necessary to ensure the stability of all structures associated with alteration work and remove the same at completion of such work. The contractor is hereby deemed to have included in his tender for the costs associated with such stability. The contractor hereby indemnifies the employer and his agents against all liabilities associated with damages, loss, etc., arising from failure of such stability, for whatever reason, and from the lack of provision of such stability.

The contractor shall exercise special care during the construction period to ensure that all electrical works, all parts of the water reticulation, telephone and other services which may be encountered are not interfered with and written notice shall be given to the principal agent if any disconnection, or alterations, become necessary. The contractor shall take all precautions necessary to prevent creating dust whilst carrying out the works.

Existing materials to become the property of the contractor

Unless otherwise described, materials arising from "Demolitions and Alterations" work shall become the property of the contractor, who shall must allow credit for same in the Final Summary.

Bill No. 2
Alterations
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES

Carried to Collection
Existing materials to be removed from site by the **contractor**.

Unless otherwise described, materials arising from "Demolitions and Alterations" work must be regularly removed from site by the **contractor** and not be allowed to accumulate.

Existing materials not to be re-used for the **works**.

Unless otherwise described, materials arising from "Demolitions and Alterations" work is not to be re-used for the **works**.

**Handing over of materials.**

Where materials, or articles, from the "Demolitions and Alterations" are required to be handed over by the **contractor** to the **employer**, or **principal agent**, such materials shall be properly protected and stored by the **contractor** until handing over thereof. The **contractor** must obtain an official written receipt listing such materials and articles and dates of their handing over. If the **contractor** fails to submit the receipt when requested, it shall be deemed that the materials, or articles, are still in his possession and the **contractor** will be liable to the **employer** for the full replacement thereof, which amount will be deducted from any monies due to the **contractor**, or to become due to the **contractor**.

**Protection.**

In taking down and removing existing work, the **contractor** shall observe utmost care to avoid any structural, or any other, damage to the remaining portions of the premises and such work is to be carried out in a workmanlike, practical and safe manner under the constant supervision of a competent foreman employed by the **contractor**. The **contractor** must also protect all work not so removed, such as walls, floors, doors, windows, joinery, loose and fixed fittings, electrical appliances, etc., from damage during the progress of the **works**, and provide all necessary materials for so doing.

**Making good damaged work.**

The **contractor** shall make good, at his own cost, in all trades to existing work where damaged, or disturbed, through the alterations, using the necessary new materials that match the existing materials.
Forming new openings, or altering openings, in existing walls.

Descriptions of forming new openings, or altering openings in existing walls, shall be deemed to include breaking out for and forming new brick, or in situ concrete, or precast concrete lintols, including all reinforcement, formwork, turning-pieces, etc., building up jambs, or portions of openings, as described, with suitable brickwork properly toothed and bonded into the existing masonry, building cavities of hollow walls solid where necessary and making good finishes all round on both sides and into reveals, as may be described.

Building up openings in existing walls.

Descriptions of building up openings in existing walls, where given in number, shall be deemed to include preparing existing surfaces all round, building up jambs, or portions of openings, as described, with suitable brickwork properly toothed and bonded into the existing masonry, wedging up and making good finishes all round on both sides, as may be described.

Dimensions of existing work.

The contractor is required to take the necessary dimensions of the existing work on site that might affect the construction of all parts of the new works. The contractor will be held solely responsible for the new works, and all parts of the new works, being the correct size.

Patching, repair and rendering in concrete members

The material used for patching, repairs and rendering of concrete members shall be high strength, shrinkage controlled/compensated, polymer modified, fibre reinforced, thixotropic repair mortar for structural repairs of all types. The materials shall be installed fully in accordance with the specifications of the manufacturer approved in writing by the principal agent.
Dowelling and grouting required for new concrete abutting existing concrete, closing openings, etc.

Unless otherwise described, all the following descriptions for new concrete abutting existing concrete, closing holes in existing concrete elements, and similar works, are hereby deemed to include all the costs arising from, and associated with, the following dowelling and grouting procedures.

1. Dowelled starter bars for reinforced concrete foundations and walls.
   Starter bars drilled into existing concrete shall be bars fixed with either solvent-free, thixotropic, polyamide cured liquid epoxy adhesive, or liquid polyester resin anchorage grout, suitable for grouting bars vertically downwards.

   Where starter bars have to be installed horizontally and vertically upwards they shall be fixed with a low creep thixotropic modified epoxy paste, or a polyester resin paste.

   The depth and diameter of holes for starter bars shall be in accordance with the requirements of the manufacturer of the particular grout, or adhesive, and the length for overlap of the reinforcement fixed to the starter bars shall be not less than 600mm.

   The materials shall be installed in accordance with the specifications of the manufacturer and only with the prior written approval of the principal agent.

2. Large openings in reinforced concrete walls that are to be closed up.

   Openings in reinforced concrete walls larger than 800mm in any one direction (so that holes for starter bars can be drilled into the walls) shall be provided with Y12 bars at 200mm centre-to-centre.

   The depth and diameter of holes for starter bars shall be in accordance with the requirements of the manufacturer of the particular grout, or adhesive, and the length for overlap of the reinforcement fixed to the starter bars shall be not less than 600mm.

   Where an opening has a dimension smaller than 800mm, bars must be cut to fit in snugly against the sides of the opening, spaced at 200mm centre-to-centre, tapped in both ends and tied to the bars anchored with starter bars.

   Class 30/19 concrete with a pumpable mix shall be used for concreting the opening, in accordance with the method statement supplied by the contractor and approved, in writing, by the principal agent.

Carried to Collection

Bill No. 2
Alterations
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
3. Smaller openings where starter bars cannot be installed

Openings where starter bars cannot be installed shall be filled with a fluid proprietary repair mortar with good adhesion to the existing concrete and a 28 day strength not less than 40 MPa.

The materials shall be installed in accordance with the specifications of the manufacturer and with the prior written approval of the principal agent.

Budgetary Amounts

"Budgetary Amounts" that appear in these bills of quantities will be measured and valued in accordance with [clause 17.0] of the Principal Building Agreement. The value of such Budgetary Amounts that appear in the "Amount" column of these bills of quantities is not to be altered by the tenderer. Any alteration by a tenderer in this regard is likely to disqualify such tender.

Budgetary Amounts are to be expended in accordance with written contract instructions by the principal agent, and may be deducted in part, or in whole. If such Budgetary Amounts are deducted in part, or in whole, the contractor will not be paid any "loss of profit", or any such associated recompense and, by submitting his tender, the contractor is hereby deemed to understand, accept and agree to this condition.

Removal of demolished, or other, materials arising from the alterations and demolitions

Descriptions of "removing", or "carting away", of such material shall be hereby deemed to include loading such material onto trucks directly from the works, or, alternatively, from stock piles situated on the site, and taking such material to a registered dump-site that has been located off-site by the contractor for such disposal. The availability of such dump-site, and its possible subsequent replacement, is at the sole risk of the contractor and no claims in respect of additional costs arising from this possibility will be entertained.

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SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Municipal regulations

1 The whole of the work shall be carried out in accordance with municipal regulations and to the entire satisfaction of the Municipal Authorities.

The Contractor shall, before commencing work, obtain all necessary authorisations for carrying out the work, give all necessary notices and pay all fees and charges in connection therewith, including all municipal charges. He shall arrange for and pay all fees and charges, if any, for disconnection of electrical and water supplies, drains, telephones, etc and for disconnection and removal of all municipal property such as electric transformers, high tension switch gear, meters, etc.

Disturbance

2 The Contractor shall carry out the whole of the demolition works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their occupants. He shall keep the site, structures and materials well watered during the operations to prevent dust and shall provide, erect and maintain all temporary tarpaulins, dust and weather-proof screens, barriers and temporary plumbing that may be necessary during the progress of the work, all to the satisfaction of the Architect and the Municipal Authorities, and remove when directed.

Hoardings and protection

3 Unless other arrangements, acceptable to the Municipal Authorities, are made and before commencing any demolition work the contractor shall provide hoardings as necessary for the enclosure of the buildings for the protection of the general public and others.

Safety

4 The work shall be executed in strict compliance with the agreed Health and Safety Plan and specifications, and any other requirements by law.

Carried to Collection

Bill No. 2
Alterations
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Disposal of materials

5 All materials, except any municipal property, shall become the property of the Contractor and credit shall be given for same

The Contractor shall be responsible for the removal from the site of all such materials vested in him before completion of this contract

An item allowing for credit is included in the summary page

Should the tenderer have any doubts concerning any of these items he shall seek clarification from the architect

Supervision

6 The work shall be carried out in accordance with the Architects instructions and under his supervision

Drains, pipes, services, etc.

7 The contractor shall remove from site all drains, pipes, conduits, wires and other obstructions which are encountered

He shall plug and seal all water pipes, drains, pipes or other conduits remaining below ground level and ensure that no electric cables or wires remaining underground are alive

The Contractor shall consult the Architect before cutting off any water, fire or gas services and sewage systems.

Leave site clean and free from rubbish

8 At completion of the demolition work the Contractor shall leave the site in a thoroughly safe and sanitary condition to the complete satisfaction of the Architect and the Municipal Authorities

He shall collect and cart away all material and debris resulting from the demolitions and also all earth, soil and rubbish and roughly level the site to a level confirming with the adjoining pavement levels

EXISTING WORK

9 The contractor shall survey the existing Basement and ground floor level to an approved detailed degree and submit a written report thereon to the principal agent before commencing the works.
Insofar as is reasonably possible, the contractor shall identify, and expose where so directed by the principal agent, all existing services on the Basement and Ground Floor level.

In order to ensure that the contractor is held accountable for the cost of rectifying all damages, or losses, that might arise from the contractor not taking the necessary precautions during the works, and insofar as is reasonably possible, the contractor shall make the necessary detailed investigations, identify, and report in writing to the principal agent, all existing defects on the Basement and Ground Floor level in the locality of the proposed works. The cost of the rectification, whether it be reparation or replacement, of all such damages, or losses, which are adjudged by the principal agent to have been consequentially caused by the contractor's failure to comply with this requirement, shall be for the contractor's account.

METHOD STATEMENT

The contractor shall timeously submit a detailed proposed method statement and obtain its written approval from the principal agent prior to commencing demolition, alteration, or construction activities.

SPECIAL PROTECTION OF SPECIFIC EXISTING WORKS

The contractor is to timeously protect the following existing works with all the means that would be reasonably expected, and take every precaution that would be reasonably expected to ensure no consequential damages are incurred. All additional costs that might arise as a result of the contractor failing to take the necessary precautions, or failing to apply such necessary means, will be hereby deemed to be for the contractor's account.

Protect the existing water supply system.
Protect the existing electrical supply system.
Protect the existing rainwater and stormwater system.
Protect the existing waste and soil drain system.
17 Protect the existing structure and adjoining works and services that are to remain unaltered and free from damage, loss and destruction during the works by whatsoever means may be necessary at the discretion of the contractor. If damage occurs to the structure, or adjoining works or services, or part of the structure or adjoining works or services, owing to failure by the contractor to comply with this requirement, the cost of the consequential repairs, or replacement, will be for the contractor's account. Item

18 Keep the Basement works area waterproof until the date of final completion. Item

19 Protect the existing fire hose-reels, fire-water supply system, sprinkler system and its individual parts and associated signage. Item

TEMPORARY BARRIERS, SCREENS, ETC.
Temporary barriers, screens, etc., including removal

20 Drywall barrier 2700mm high formed of galvanised steel channel section rails and studs covered on one side with 12.7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side, including corners, ends, etc. m 47

HOARDING

Hoarding

21 Security line comprising of 1.8m high diamond wire mesh. m 154

22 1.8m high diamond wire mesh double gate. No 1

DEMOLITIONS, ETC.
Demolish and Remove

23 Security kiosk (as per issued drawings) Item

24 Refuse yard (as per issued drawings) Item

25 Balconies (as per issued drawings) Item

26 Credit for any such materials as identified, recorded and signed of between the contractor and employer at the compulsory site handover meeting. Item

BUDGETARY ALLOWANCES

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<td>34</td>
<td>Take out and remove existing paving</td>
<td>m2</td>
<td>1,277</td>
<td></td>
</tr>
<tr>
<td>35</td>
<td>Break up and remove precast concrete kerbs</td>
<td>m</td>
<td>196</td>
<td></td>
</tr>
<tr>
<td>36</td>
<td>Existing gate to refuse yard</td>
<td>No</td>
<td>1</td>
<td></td>
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**Carried to Collection**

Bill No. 2

Alterations

SA TOURISM EXTENSION TO BASEMENT

3711-J07-13 PROVISIONAL BILL OF QUANTITIES
<table>
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<th>Description</th>
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<tbody>
<tr>
<td>37</td>
<td>Setting up and building and refixing existing gate to refuse yard</td>
<td></td>
<td>1</td>
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<tr>
<td>38</td>
<td>OPENINGS THROUGH EXISTING WALLS, ETC.</td>
<td></td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Breaking out for and forming plain openings through external brick and palisade fence (making good paintwork elsewhere)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>39</td>
<td>Opening size overall 2032mm wide, through existing brick and palisade fence.</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>40</td>
<td>Opening size overall 2.93 x 2.5mm high, through 365mm cavity wall.</td>
<td></td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>Hacking up/off and removing existing external slate tile</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>including removing mortar bed and preparing concrete, or brick, surfaces for new screed, and tile finishes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>41</td>
<td>Existing slate tiles to main entrance</td>
<td>m²</td>
<td>351</td>
</tr>
<tr>
<td>42</td>
<td>Closing 360mm cavity of hollow wall horizontally with one course of brickwork.</td>
<td>m</td>
<td>15</td>
</tr>
<tr>
<td>43</td>
<td>Walls in patches</td>
<td>m²</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>Making good internal cement plaster and paint</td>
<td></td>
<td></td>
</tr>
<tr>
<td>44</td>
<td>Walls in patches</td>
<td>m²</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>Making good existing waterproofing to walls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>45</td>
<td>Walls in patches</td>
<td>m²</td>
<td>7</td>
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Carried to Collection

Bill No. 2
Alterations
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES

-39-
Making good concrete floor

46 Make good concrete floor where 365mm wall removed  m  17

BUDGETARY ALLOWANCES

Repairs to agricultural drain

47 Allow the Budgetary Allowance of R 30,000.00 (Thirty Thousand Rand) in connection with repairs to the agricultural drain to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 30,000 00

Repairs to existing basement waterproofing

48 Allow the Budgetary Allowance of R 20,000.00 (Twenty Thousand Rand) in connection with repairing the existing basement waterproofing to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 20,000 00

Removing existing landscaping at main entrance

49 Allow the Budgetary Allowance of R 6,000.00 (Six Thousand Rand) in connection with removal of the existing landscaping to the main entrance to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 6,000 00

Temporary ramp to existing basement and guard house

50 Allow the Budgetary Allowance of R 7,500.00 (Seven Thousand Five Hundred Rand) in connection with the construction of a temporary ramp to the basement and guard house including removal thereof after construction to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 7,500 00

Existing brick and palisade boundary wall

51 Allow the Budgetary Allowance of R 4,500.00 (Four Thousand Five Hundred Rand) in connection with making good the existing boundary fence to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 4,500 00

Carried to Collection

Bill No. 2
Alterations
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
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Carried to Summary

Bill No. 2
Alterations
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
BILL NO. 3

EARTHWORKS

NOTE: Tenderers are required to study the Model Preambles for Trades before pricing these bills of quantities.

SUPPLEMENTARY PREAMBLES

Excavations generally

The contractor shall notify the principal agent in writing as soon as the excavations are ready to receive foundations and no building work may be started until the principal agent has approved the excavations in writing.

Any excavation taken out below the excavation shown on drawings, or required by the principal agent in order to obtain a solid foundation, or for other acceptable reasons, shall be filled in by the contractor, at his own expense, with 10Mpa concrete.

Nature of ground

Descriptions of excavations shall be deemed to include all ground conditions classifiable as “earth” and where conditions of a more difficult character are indicated these are separately measured.

Tenderers are hereby deemed to have made adequate provision in their cost rates for subterranean water, where necessary. All additional costs arising from a Tenderer having failed to comply with this requirement will be for the contractor’s account.

Classification of excavated materials other than “earth”

If the contractor considers that any of the excavations are more difficult in nature than excavations in “earth”, he shall immediately notify the principal agent and quantity surveyor in writing. If the contractor fails to make such notification, the excavations shall be deemed to be in “earth” and shall be measured, and valued, accordingly.
The contractor may, with the prior written permission of the principal agent and in terms of the conditions of contract, use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the materials excavated.

Blasting

No blasting will be allowed without the prior written permission of the principal agent.

If any blasting is necessary, the contractor shall take every precaution to protect the works and persons, animals and property, in the vicinity of the works. The contractor will be held responsible for any injury, loss, and/or damage, caused by such blasting operations and shall make good such loss and/or damage at his own expense.

Risk of collapse

The contractor shall be responsible for the risk of collapse of all excavated faces.

Where excavations do not exceed 1.5m deep, the nature of the precautions to be taken shall be entirely at the contractor's discretion. The contractor shall either provide temporary support to the excavated faces, or carry the risk of collapse of the faces, with all its implications and possible consequential costs. Where excavations exceed 1.5m deep, the contractor shall maintain all excavated faces, in accordance with Statutory and local Authority Regulations, and be responsible for the resultant costs.

Working space risk of collapse

Excavations for working space shall include any additional risk of collapse so incurred.

Carting away of excavated material

Descriptions of carting away of excavated material shall be hereby deemed to include loading excavated material onto trucks directly from the excavations, or, alternatively, from stock piles situated on the building site.
Filling

Notwithstanding the reference to prescribed multiple handling in clause 1 page 6 of the Standard System of Measuring Building Work, prices for filling and backfilling shall include for all selection and any necessary multiple handling of material.

Unless otherwise described, all “filling” and “backfilling” is hereby deemed to be compacted to 93% Mod AASHTO density.

Testing

Prices for filling are to include for all necessary density tests in accordance with SABS 1200D.

EXISTING WORK

1 The **contractor** shall verify all levels on **site** and, to an approved detail, report in writing thereon to the **principal agent** before commencing the construction **works**.

2 Upon being granted occupation of the **site**, the **contractor** shall verify all setting out of piles and other points of reference on **site** and, to an approved detail, report in writing thereon to the **principal agent** before commencing the construction **works**.

3 Insofar as is reasonably possible, the **contractor** shall identify, and expose where so directed in writing by the **principal agent**, all underground services on **site**.

SITE CLEARANCE, ETC.

SITE PREPARATION

4 Rip, scarify, remove all tree roots and recompact base material to 90% MOD AASHTO. **m2** 1,054

BULK EXCAVATION, FILLING, ETC

EXCAVATIONS, ETC.

Bulk excavation in earth for basement

5 Exceeding 2m and not exceeding 4m deep. **m3** 4,872

   Extra over bulk excavations in earth for excavation in

6 Soft rock. **m3** 487

7 Hard rock. **m3** 244

Carried to Collection

Bill No. 3
Earthworks

SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extra over all excavations for carting away</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor.</td>
<td>m3</td>
<td>3,674</td>
</tr>
<tr>
<td>9</td>
<td>Sides of bulk excavations exceeding 1.5m deep.</td>
<td>m2</td>
<td>620</td>
</tr>
<tr>
<td>10</td>
<td>Keeping excavations free of water other than subterranean water.</td>
<td>Item</td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Keeping excavations free from subterranean water / groundwater seepage.</td>
<td>Item</td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>Bulk earth filling obtained from the bulk excavations and/or prescribed stockpiles on site compacted to 98% MOD AASHTO density</td>
<td>m3</td>
<td>967</td>
</tr>
<tr>
<td>13</td>
<td>&quot;Modified AASHTO Density&quot; test.</td>
<td>No</td>
<td>5</td>
</tr>
<tr>
<td>14</td>
<td>&quot;Field Density&quot; test, including &quot;Optimum Moisture Content&quot; (four readings per test).</td>
<td>No</td>
<td>5</td>
</tr>
<tr>
<td>15</td>
<td>Excavation in earth not exceeding 2m deep</td>
<td>m3</td>
<td>144</td>
</tr>
<tr>
<td>16</td>
<td>Trenches, including working around piles.</td>
<td>m3</td>
<td>154</td>
</tr>
<tr>
<td>17</td>
<td>Holes, including working around column bases.</td>
<td>m3</td>
<td>26</td>
</tr>
<tr>
<td>18</td>
<td>Soft rock.</td>
<td>m3</td>
<td>32</td>
</tr>
</tbody>
</table>

**EXCAVATION, FILLING, ETC., OTHER THAN BULK EXCAVATION**

**EXCAVATIONS, ETC.**

Excavation in earth not exceeding 2m deep

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>Reduced levels under floors.</td>
<td>m3</td>
<td>144</td>
</tr>
<tr>
<td>16</td>
<td>Trenches, including working around piles.</td>
<td>m3</td>
<td>154</td>
</tr>
<tr>
<td>17</td>
<td>Holes, including working around column bases.</td>
<td>m3</td>
<td>26</td>
</tr>
<tr>
<td>18</td>
<td>Extra over trench and hole excavations in earth for excavation in</td>
<td>m3</td>
<td>32</td>
</tr>
<tr>
<td></td>
<td>Soft rock</td>
<td>m3</td>
<td>32</td>
</tr>
</tbody>
</table>

**Carried to Collection**

Bill No. 3
Earthworks

SA TOURISM EXTENSION TO BASEMENT 3711-J07-13 PROVISIONAL BILL OF QUANTITIES
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Units</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>Hard rock. Back excavation of vertical sides of excavations in earth for</td>
<td>m3</td>
<td>16</td>
</tr>
<tr>
<td></td>
<td>working space including backfilling compacted to 98% Mod AASHTO density</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>Exceeding 500mm deep and not exceeding 1.5m deep for placing and removing</td>
<td>m2</td>
<td>394</td>
</tr>
<tr>
<td></td>
<td>formwork to strip footings etc., 500mm away from excavated face.</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Extra over all excavations for carting away</td>
<td>m2</td>
<td>394</td>
</tr>
<tr>
<td>21</td>
<td>Surplus material from excavations and/or stock piles on site, to</td>
<td>m3</td>
<td>246</td>
</tr>
<tr>
<td></td>
<td>a dumping site to be located by the contractor</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>Sides of trench and hole excavations not exceeding 1,5m deep</td>
<td>m2</td>
<td>394</td>
</tr>
<tr>
<td></td>
<td>Keeping excavations free of water</td>
<td>m2</td>
<td>394</td>
</tr>
<tr>
<td>23</td>
<td>Keeping excavations free of water other than subterranean water.</td>
<td>Item</td>
<td></td>
</tr>
<tr>
<td></td>
<td>De-watering of seepage water and water from other sub-soil sources</td>
<td></td>
<td></td>
</tr>
<tr>
<td>24</td>
<td>Keeping excavations free from subterranean water / groundwater seepage.</td>
<td>Item</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>FILLING, ETC.</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Earth filling obtained from the excavations and/or prescribed stock piles</td>
<td>m3</td>
<td>78</td>
</tr>
<tr>
<td></td>
<td>on site, compacted to 95% Mod AASHTO density</td>
<td></td>
<td></td>
</tr>
<tr>
<td>25</td>
<td>Backfilling to trenches, holes, etc.</td>
<td>m3</td>
<td>728</td>
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<tr>
<td>26</td>
<td>Backfilling behind retaining walls.</td>
<td>m3</td>
<td>231</td>
</tr>
<tr>
<td>27</td>
<td>G5 material under surface beds, floors, steps, paving, etc.</td>
<td>m3</td>
<td>19</td>
</tr>
<tr>
<td>28</td>
<td>G5 material under ramp.</td>
<td>m3</td>
<td></td>
</tr>
<tr>
<td>29</td>
<td>Under floors, etc.</td>
<td>m3</td>
<td>96</td>
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<td><strong>Carried to Collection</strong></td>
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<td>Earthworks</td>
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<td><strong>SA TOURISM EXTENSION TO BASEMENT</strong></td>
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<td><strong>3711-J07-13 PROVISIONAL BILL OF QUANTITIES</strong></td>
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</tbody>
</table>
Compaction of surfaces

30  Compaction of ground surface under floors, etc., including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 98% Mod AASHTO density.  
    m²  2,060  

Prescribed density tests on filling

31  "Modified AASHTO Density" test.  
    No  11

**SOIL POISONING**

Soil insecticide in accordance with SANS 5859

32  Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming.  
    m²  960

33  To bottoms and sides of trenches, bases, etc.  
    m²  574

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Carried to Collection

Bill No. 3  
Earthworks  
SA TOURISM EXTENSION TO BASEMENT  
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
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<td>46</td>
<td></td>
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<td>47</td>
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SUPPLEMENTARY SPECIFICATION

INDEMNITY

The Contractor shall take full responsibility for piling work and shall guarantee that piling work will support the calculated loads laid down by the Engineer without injurious settlement. The actual lengths of piles shall be determined on site by the Contractor in consultation with the Engineer who will give all assistance possible. This does not in any way relieve the Contractor of his responsibility or obligation to provide the specified guarantee.

The Contractor shall indemnify the Employer against any injury to or death of any person and all loss or damage to all structures resulting from the failure of any pile. In the event of the failure of any pile the Contractor shall make good such pile and all consequent damage at his own expense.

SCOPE OF WORK

The work comprises the design and installation of piles for 18 number column positions. The Contractor is referred to drawings issued together with these Bills of Quantities in order to acquaint himself fully with the nature and scope of the work.

NOTE: Piles are to be installed subsequent to the site being excavated or filled to the correct levels.

GUARANTEE AND INSURANCE

1 Provision of the specified piling guarantee and insurance. Item

2 Transporting and establishment on site of necessary plant and personnel for the execution of the work and removal thereof on completion. Including the maintenance of all correct platform levels as taken over from the Bulk Earthworks Contractor. Item

Carried to Collection

Bill No. 4
Piling
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
3 Setting up plant for pile / group of piles at column position including all necessary surveying, etc.

PILES DESIGNED BY THE CONTRACTOR

Piles suitable for the following working loads, etc. including reinforcement, couplings, drilling, driving, and removing surplus material from pile holes to a dumping site to be located by the Contractor, etc.

All loads are serviceability loads at pile cap level. Secondary geotechnical load effects below the pilecap level, such as down drag, are not included and must be taken into account by the pile designer. The engineering drawings indicate Auger piles with a spacing of 2xpile diameter. If any other piling system is used designer should state the pile spacing and the pile caps will need to be increased in plan and depth accordingly.

4 Column position with compression load of 500 kN.

TEST BLOCKS

5 Making and testing 150 x 150 x 150mm concrete strength test cube. (Provisional)

TESTING OF WORKING PILES

6 In the case of augered cast in-situ piles the Piling Contractor must allow for the programming and costs for non-destructive sonic in-situ integrity testing of 100% of the piles, carried out by an independent laboratory approved by the Principal Agent.

The testing method shall employ a frequency response that enables a pile shaft simulation diagram to be drawn to differentiate between reductions and bulges in the pile shaft. The Piling Contractor must allow for a suitable curing period (at least 14 days), after which he shall cut the piles down suitably for testing.

The Piling Contractor will be directly responsible for the co-ordination of in-situ testing carried out by the independent laboratory, and will be directly responsible for submitting the test results in writing to the Contractor timeously.

NOTE:

Piles deemed to be inadequate as the result of integrity testing must be notified to the Principal Agent immediately, and the following procedure will apply:

1. The Piling Contractor Geotechnical Engineer shall inspect the integrity test results, or seek alternative opinion on the interpretation of the results, and report

Carried to Collection

Bill No. 4
Piling
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
to the Principal Agent.

2. Replacement piles, or an alternative solution shall be issued to the Principal Agent for perusal by the Piling Contractor, and shall be carried out at the Piling Contractor’s expense.

TESTING

The Piling Contractor may be instructed to test load Working Piles in order to confirm that they meet the requirements of the Specification for load-deflection behaviour.

7 Transporting and establishment on site of necessary testing plant for the execution of the work and removal thereof on completion.

8 Testing pile to a maximum load of 500 kN.

9 Allow the amount of R 30,000.00 (Thirty Thousand Rand) for testing of working piles.

Item 30,000 00
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Bill No. 4
Piling

Carried to Summary

SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES

-52-
BILL NO. 5

CONCRETE, FORMWORK AND REINFORCEMENT

NOTE: Tenderers are required to study the Model Preambles for Trades before pricing these bills of quantities.

SUPPLEMENTARY PREAMBLES

Cost of tests

The costs of making, storing and testing of concrete test cubes as required under clause 7 "Tests" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the tests to the principal agent. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the written approval of the principal agent (Test cubes are measured separately).

Formwork

Descriptions of formwork shall be hereby deemed to include use and waste only (except where described as "left in" or "permanent"), for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.

The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until the newly constructed work is able to support itself.

Formwork to soffits of solid slabs, etc., shall be deemed to be to slabs not exceeding 250mm thick, unless otherwise described.

Formwork to soffits of slabs, beams, etc., shall be hereby deemed to be propped up exceeding 1.5m and not exceeding 3.5m high, unless otherwise described.

Carried to Collection

Bill No. 5
Concrete, Formwork and Reinforcement
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Formwork to sides of bases, pile caps, ground beams, etc., will only be measured where it is prescribed by the principal agent for design reasons. Formwork necessitated by irregularity, or collapse of excavated faces, will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks".

**LIGHTWEIGHT CONCRETE**

**Breeze concrete**

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<tbody>
<tr>
<td>1</td>
<td>50 x 50mm 1:8 Cement mortar triangular fillet against walls, etc.</td>
<td>m</td>
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</tbody>
</table>

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

25MPa/19mm concrete

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Surface blinding under strip footings, and bases, etc.</td>
<td>m3</td>
</tr>
</tbody>
</table>

**REINFORCED CONCRETE**

30MPa/19mm concrete

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>Footings (retaining wall)</td>
<td>m3</td>
</tr>
<tr>
<td>4</td>
<td>Column bases.</td>
<td>m3</td>
</tr>
<tr>
<td>5</td>
<td>Columns in foundations.</td>
<td>m3</td>
</tr>
<tr>
<td>6</td>
<td>Columns.</td>
<td>m3</td>
</tr>
<tr>
<td>7</td>
<td>Retaining walls in foundations.</td>
<td>m3</td>
</tr>
<tr>
<td>8</td>
<td>Retaining walls.</td>
<td>m3</td>
</tr>
<tr>
<td>9</td>
<td>Slabs to falls.</td>
<td>m3</td>
</tr>
<tr>
<td>10</td>
<td>Filling in cavity of brick walls.</td>
<td>m3</td>
</tr>
<tr>
<td>11</td>
<td>Surface beds to falls.</td>
<td>m3</td>
</tr>
<tr>
<td>12</td>
<td>Ramps.</td>
<td>m3</td>
</tr>
</tbody>
</table>

**CONCRETE SUNDRIES**

Carried to Collection

Bill No. 5
Concrete, Formwork and Reinforcement
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Stripping back heads of concrete piles for a height not exceeding 500mm to expose reinforcement, including trimming to defined levels and bending reinforcement as necessary for casting into pile caps

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>450mm Diameter pile.</td>
<td></td>
<td>No 18</td>
</tr>
<tr>
<td>14</td>
<td>Finishing top surfaces of concrete smooth with a wood float</td>
<td></td>
<td>m2 1,070</td>
</tr>
<tr>
<td>15</td>
<td>Surface beds, slabs, etc., in panels.</td>
<td>m2</td>
<td>960</td>
</tr>
</tbody>
</table>

**TEST CUBES**

<table>
<thead>
<tr>
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<th>Description</th>
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<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>16</td>
<td>Making and testing 150 x 150 x 150mm concrete strength test cube.</td>
<td></td>
<td>No 24</td>
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</table>

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

Rough formwork to sides

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>Bases.</td>
<td>m2</td>
<td>37</td>
</tr>
<tr>
<td>18</td>
<td>Strip footings.</td>
<td>m2</td>
<td>123</td>
</tr>
<tr>
<td>19</td>
<td>Retaining walls in foundations.</td>
<td>m2</td>
<td>185</td>
</tr>
<tr>
<td>20</td>
<td>Retaining walls with total height exceeding 1.5m and not exceeding 3.5m high.(outside face)</td>
<td>m2</td>
<td>462</td>
</tr>
<tr>
<td>21</td>
<td>Rectangular columns in foundations.</td>
<td>m2</td>
<td>28</td>
</tr>
<tr>
<td>22</td>
<td>Edges, risers, ends and reveals not exceeding 300mm high, or wide.</td>
<td>m</td>
<td>12</td>
</tr>
</tbody>
</table>

**SmoOTH AND FAIR FORMWORK**

Smooth and fair formwork to sides

<table>
<thead>
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<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>23</td>
<td>Retaining walls with total height exceeding 1.5m and not exceeding 3.5m high (inside face)</td>
<td>m2</td>
<td>462</td>
</tr>
<tr>
<td>24</td>
<td>Rectangular columns with total height exceeding 1.5m and not exceeding 3.5m high.</td>
<td>m2</td>
<td>97</td>
</tr>
</tbody>
</table>

Carried to Collection

Bill No. 5
Concrete, Formwork and Reinforcement
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Smooth and fair formwork to soffits

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>25</td>
<td>Slabs propped up exceeding 1.5m and not exceeding 3.5m high.</td>
<td>m²</td>
</tr>
</tbody>
</table>

Boxing in smooth and fair formwork to form

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>26</td>
<td>20 x 20mm Vertical chamfer at corner.</td>
<td>m</td>
</tr>
<tr>
<td>27</td>
<td>50 x 50mm Vertical chamfer at corner</td>
<td>m</td>
</tr>
</tbody>
</table>

**MOVEMENT JOINTS ETC**

Expansion joints with 12mm softboard between vertical concrete surfaces, including necessary formwork

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>28</td>
<td>Not exceeding 300mm high between slabs.</td>
<td>m</td>
</tr>
</tbody>
</table>

Saw-cut joints

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>29</td>
<td>4mm Wide saw-cut joint 30mm high in top of concrete.</td>
<td>m</td>
</tr>
</tbody>
</table>

Horizontal construction joints through concrete, including thick cement slurry to one face

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>Surface beds not exceeding 300mm thick.</td>
<td>m</td>
</tr>
</tbody>
</table>

**REINFORCEMENT**

Mild steel reinforcement to structural concrete work

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>31</td>
<td>8mm Diameter bars.</td>
<td>t</td>
</tr>
<tr>
<td>32</td>
<td>10mm Diameter bars.</td>
<td>t</td>
</tr>
<tr>
<td>33</td>
<td>16mm Diameter bars</td>
<td>t</td>
</tr>
</tbody>
</table>

High tensile steel reinforcement to structural concrete work

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>34</td>
<td>10mm Diameter bars.</td>
<td>t</td>
</tr>
<tr>
<td>35</td>
<td>12mm Diameter bars.</td>
<td>t</td>
</tr>
<tr>
<td>36</td>
<td>16mm Diameter bars</td>
<td>t</td>
</tr>
<tr>
<td>37</td>
<td>20mm Diameter bars</td>
<td>t</td>
</tr>
<tr>
<td>38</td>
<td>25mm Diameter bars.</td>
<td>t</td>
</tr>
<tr>
<td>39</td>
<td>32mm Diameter bars.</td>
<td>t</td>
</tr>
</tbody>
</table>

**Carried to Collection**

Bill No. 5  
Concrete, Formwork and Reinforcement  
SA TOURISM EXTENSION TO BASEMENT  
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
<table>
<thead>
<tr>
<th>Fabric reinforcement</th>
</tr>
</thead>
<tbody>
<tr>
<td>40 Type 245 fabric reinforcement in concrete surface beds, ramps, and slabs, etc.</td>
</tr>
<tr>
<td>m²</td>
</tr>
</tbody>
</table>

Carried to Collection

Bill No. 5
Concrete, Formwork and Reinforcement
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Bill No. 5
Concrete, Formwork and Reinforcement

**COLLECTION**

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Total Brought Forward from Page No.

Carried to Summary

Bill No. 5
Concrete, Formwork and Reinforcement
**SA TOURISM EXTENSION TO BASEMENT**
**3711-J07-13 PROVISIONAL BILL OF QUANTITIES**
BILL NO. 6

MASONRY

FOUNDATIONS

SUPPLEMENTARY PREAMBLES

BRICKWORK

Sizes in descriptions

Where sizes in descriptions are given in brick units, "one-brick" shall represent the length and "half-brick" the width of a brick.

Hollow walls, etc.

Descriptions of hollow walls shall be deemed to include leaving every fifth perpend of the bottom course of the external skin open as a weep hole.

Walls in two skins described as "bagged and sealed" shall be deemed to include having the outer face of the inner skin bagged with 1:6 cement and sand mixture and sealed with two coats "Brixeal" bitumen emulsion waterproofing coating.

Face bricks

Bricks shall be ordered timeously to obtain uniformity in size and colour.

Pointing

Descriptions of recessed pointing to fair face brickwork and face brickwork shall be deemed to include square recessed, hollow recessed, weathered pointing, etc.

BLOCKWORK

Concrete masonry units

Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 7 MPa.

-59-
Wall ties for blockwork

Wall ties shall be polypropylene "Permaties" complying with BS 76377. Ties for hollow walls shall be of sufficient length to allow not less than 75mm of each end to be built into the blockwork. Ties are to be spaced at intervals of not more than 1m minimum the horizontal direction and not more than 400mm staggered in the vertical direction except at openings, vertical joints or ends of walls where they are to be placed vertically above each other.

Standard complementary blocks

Descriptions of blockwork shall be deemed to include standard complementary blocks, such as corner, three-quarter, half and quarter blocks required in the construction of corners, reveals, jambs, ends, etc., to solid and hollow walls and for bonding as necessary.

DECORATIVE BLOCKS

Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour.

SAMPLES

Samples of all masonry building units, except those for walls described as "load bearing", shall consist of a minimum of 6 units. Samples of building units to be used in walls described as "load bearing" shall consist of 30 units from every 30 000 units delivered to site.

PROTECTION

Faced brickwork, faced blockwork, quarry tiles, stonework and all such finishes shall be carefully protected from damage, defacement, staining and mortar splashes and shall be thoroughly cleaned down as the work proceeds.

Carried to Collection

Bill No. 6
Masonry
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
MASONRY

Unless otherwise required by the:
(1) specified Model Preambles for Trades, or
(2) what is contained elsewhere in the works Specification, or
(3) what is contained elsewhere on works drawings, or
(4) what is described elsewhere in these bills of quantities, "Masonry walling", and its associated materials, methods of construction, construction details, permissible deviations and everything else that can be reasonably claimed to be part of the specification of "Masonry walling", as described therein, shall comply with SANS 2001-CM1:2007 Edition 1 "Masonry Walling".

SUPERSTRUCTURE

Brickwork of NFP clay bricks in Class II mortar

1 Half brick wall. m² 462

BRICKWORK SUNDRIES

2 Cutting toothings and bonding new brickwork to existing. m² 12

Bagging of 1:3 cement and sand mixture

3 On brick walls. m² 924

Joint forming material in movement joints

4 10mm Bitumen impregnated fibre board built in vertically between surface bed and brick walls. m² 6

Brickwork reinforcement

5 75mm Wide reinforcement built in horizontally. m 1,386

Galvanised hoop iron cramps, ties, etc.

6 40 x 1.6mm "Tibond" wall tie strips shot pinned to concrete and with ties bent out and built into brickwork. m 90

Precast pre-stressed concrete lintels

7 110 x 75mm Lintels in lengths not exceeding 3m. m 17

Carried to Collection

Bill No. 6
Masonry
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES

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<table>
<thead>
<tr>
<th>Page No</th>
<th>Amount</th>
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<tr>
<td>-59-</td>
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</table>

Bill No. 6
Masonry

**SA TOURISM EXTENSION TO BASEMENT**
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
**SUPPLEMENTARY PREAMBLES**

Waterproofing of roofs, basements, etc., shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets, etc., with necessary ridges and valleys. Descriptions of sheet, or membrane, waterproofing shall be hereby deemed to include additional labour to turn-ups and turn-downs.

**DAMPPROOFING OF WALLS AND FLOORS**

One layer 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self adhesive tape

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Rate (m²)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Under surface beds, ramps, and pavings, etc.</td>
<td>m²</td>
<td>960</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Two coats &quot;Brickseal&quot; bitumen emulsion waterproof coating</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>On bagged brick walls.</td>
<td>m²</td>
<td>462</td>
<td></td>
</tr>
</tbody>
</table>

**WATERPROOFING TO ROOFS, BASEMENTS, ETC**

Waterproof tanking to be one layer of Derbigum CG3 and one layer CG4 waterproofing membrane, with 100mm side laps and 150mm end laps, sealed to prime surface by 'torch-fusion' to receive protection or drainage layer and compacted fill (elsewhere measured), installed by an Approved Derbigum Contractor.

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Rate (m²)</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>On retaining wall.</td>
<td>m²</td>
<td>832</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>On concrete slab.</td>
<td>m²</td>
<td>1,016</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Additional membrane 150mm girth at internal and external angles.</td>
<td>m</td>
<td>645</td>
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</tbody>
</table>

**PROTECTIVE SHEETING FOR WATERPROOFING**

Carried to Collection

Bill No. 7

Waterproofing

SA TOURISM EXTENSION TO BASEMENT

3711-J07-13 PROVISIONAL BILL OF QUANTITIES
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Polystyrene protective sheeting to horizontal waterproofing</td>
<td>m²</td>
<td>960</td>
</tr>
<tr>
<td>7</td>
<td>Under slab</td>
<td>m²</td>
<td>1,070</td>
</tr>
<tr>
<td>8</td>
<td>Vertically against retaining walls</td>
<td>m²</td>
<td>832</td>
</tr>
</tbody>
</table>

**SEALING STRIPS, JOINT SEALANTS, ETC**

"Thioflex" two part grey polysulphide sealing compound, including backing cord, bond breaker, primer, etc.

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td>4 x 10mm In saw-cut joints in surface bed.</td>
<td>m</td>
<td>272</td>
</tr>
<tr>
<td>10</td>
<td>10 x 10mm In expansion joints in surface bed.</td>
<td>m</td>
<td>35</td>
</tr>
<tr>
<td>11</td>
<td>10 x 10mm In expansion joints in concrete slab.</td>
<td>m</td>
<td>9</td>
</tr>
<tr>
<td>12</td>
<td>10 x 10mm In vertical expansion joints</td>
<td>m</td>
<td>21</td>
</tr>
<tr>
<td>Page No</td>
<td>Amount</td>
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Bill No. 7
Waterproofing

SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
<table>
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<tbody>
<tr>
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<td></td>
<td></td>
</tr>
<tr>
<td>PLUMBING AND DRAINAGE</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Tenderers are required to study the Model Preambles for Trades before pricing these **bills of quantities**.

-----------------------------

**SUPPLEMENTARY PREAMBLES**

All plumbing and drainage must be executed in accordance with SABS 0400-1990 Part P, unless otherwise stated herein under.

**Wire gratings**

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

**Stormwater channels**

Descriptions of channels shall be deemed to include necessary excavation, surface preparation, compaction, etc, and disposal of surplus material on site

**Concrete pipes**

Pipes shall be jointed with ogee joints with rubber collars or socket and spigot joints with rubber rings.

**uPVC pipes and fittings**

Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings.

Soil, waste and vent pipes and fittings shall be solvent weld jointed.

---

**Carried to Collection**

Bill No. 8
Plumbing and Drainage
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
uPVC pressure pipes and fittings

Pipes for water supply shall be of the class stated.

Pipes of 40mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings.

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

Copper pipes

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

Fixing of pipes

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

Reducing fittings

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

Exposed concrete surfaces

Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catch pits, inspection chambers, etc. shall be finished smooth with plaster.

Carried to Collection

Bill No. 8
Plumbing and Drainage
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
No claim for rock excavation will be entertained unless the contractor has timeously notified the quantity surveyor thereof prior to backfilling.

“Soft rock” and “hard rock” shall be as defined in “Earthworks”.

Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instructions.

Where no manufacturers' instructions exist, pipes shall be laid in accordance with Clauses 5.1 and 5.2 of each of the following:

- SABS 1200 L: Medium-pressure pipelines
- LD: Sewers
- LE: Stormwater drainage

Pipe trenches, etc. shall be backfilled in accordance with Clauses 3, 5.5, 5.6, 5.7 and 7 of SABS 1200 DB: Earthworks (Pipe trenches).

Pipes shall be bedded in accordance with Clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB: Bedding (Pipes).

Unless otherwise described bedding of rigid pipes shall be Class B bedding.

Flush pans

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

Stainless steel basins, sinks, wash troughs, urinals, etc.

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

Waste unions

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

Descriptions of cast iron roof outlets shall be deemed to include joints to pipes and casting into concrete (adaptors for joints to PVC pipes, etc., are given separately).

Descriptions of overflow pipes where measured in number, shall be deemed to include joints to cisterns and splay cut ends.

Descriptions of pipes laid in, and including, trenches shall be hereby deemed to include excavation, risk of collapse of sides of excavations, keeping free of water, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and removal from site of surplus excavated material.

Descriptions of catch pits, junction boxes, manholes, inspection chambers, etc., that have masonry walls, shall be hereby deemed to include, excavation, risk of collapse of sides of excavations, keeping free of water, 150mm thick 20Mpa concrete bottoms, concrete benching with smooth top surface (where applicable), channels and channel fittings (where applicable), holes through walls for pipes (where applicable), 230mm thick outer walls in extra hard burnt bricks in cement mortar, one coat internal cement plaster on walls, 150mm thick cover slab, including nominal steel reinforcement and rebated opening for cover and frame (elsewhere measured), formwork to sides and soffits, backfilling, compaction to a minimum of 93% Mod AASHTO density and removal from site of surplus excavated material.

Descriptions of catch pits, junction boxes, manholes, inspection chambers, etc., that have circular precast concrete walls, shall be hereby deemed to include, excavation, risk of collapse of sides of excavations, keeping free of water, 150mm thick 20Mpa concrete bottoms, concrete benching with smooth top surface (where applicable), channels and channel-fittings (where applicable), holes through walls (where applicable), 50/75mm thick (nominally) smooth precast reinforced concrete outer walls with their bottoms bedded in cement mortar and their joints prepared and taped to be waterproof, 150mm thick cover slab, including nominal steel reinforcement and rebated opening for cover and frame (elsewhere measured), formwork to sides and soffits, backfilling, compaction to a minimum of 93% Mod AASHTO density and removal from site of surplus excavated material.

Descriptions of service pipes and flexible connecting pipes shall be hereby deemed to include connections to taps, cisterns, etc., and to steel pipes (adaptors for connections to copper pipes, etc., are given separately).

Carried to Collection

Bill No. 8
Plumbing and Drainage
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Descriptions of WC pans, slop hoppers, etc., shall be deemed to include for joints to soil pipes.

As built drawings

Where required, the contractor shall prepare an updated set of as built drawings. At completion of the works the contractor shall hand these drawings to the principal agent for reproducing onto the originals for handing over to the employer (provision for allowance of as built drawings elsewhere).

SUBSOIL DRAINAGE

Behind Retaining Wall

1 "Kaytech Bidim grade A4" non-woven, continuous, filament, needle-punch, polyester geotextile filter fabric with 1200 girth wrapped around and including 300 x 300mm high crushed stone encasement in trench not exceeding 1000mm deep in lowest basement, with and including required filling with 50mm side-laps and 300mm end-laps, including stitching. m 134

2 Extra over 300mm diameter pipe for stop ends No 9

Under basement floor

3 Excavate, leave, or form, approximately 450 x 450mm high trench in backfilling footing in lowest basement (to receive 150mm diameter slotted uPVC agricultural pipes and 19mm-grade crushed stone encasement - pipes and encasement elsewhere measured). m 160

4 "Kaytech Bidim grade A4" non-woven, continuous, filament, needle-punch, polyester geotextile filter fabric wrapped around 160mm diameter slotted pipe drain in crushed stone encasement in trench not exceeding 750mm deep in lowest basement, with 50mm side-laps and 300mm end-laps, including stitching. m 160

5 450 x 150mm High clean, hard, 19mm-grade crushed stone bedding in trench not exceeding 1000mm deep in lowest basement (to receive slotted drain - drain elsewhere measured). m 160

6 450 x 300mm High overall clean, hard, 19mm-grade crushed stone encasement around 150mm diameter slotted pipe drain in trench not exceeding 1000mm deep in lowest basement (trench and pipe elsewhere measured). m 160

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Bill No. 8
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7 160mm Diameter uPVC agricultural slotted pipes with approved joints, laid on crushed stone in trench not exceeding 1000mm deep in lowest basement (trench and stone elsewhere measured).  m 160

8 Extra on 160mm diameter slotted pipe drain for capped end.  No 4

9 Extra on 160mm diameter slotted pipe drain for 90 degree access bend.  No 8

10 Extra on 160mm diameter slotted pipe drain for T-shaped access junction.  No 2

11 20mm Mesh galvanised wire netting stopper in end of 150mm diameter slotted drain pipe.  No 4

**SUNDRIES**

12 Provide all the necessary apparatus, water, etc., for and test the whole of the subsoil drainage system to the written satisfaction of the principal agent, and replace any defective work free of charge and leave perfect.  Item

Manholes, catchpits, inspection chambers, etc., (including covers)

13 Manhole size 900 x 900mm not exceeding 1 000mm deep internally.  No 7

**BUDGETARY ALLOWANCES**

Subsoil water tank

14 Allow the Budgetary Allowance of R 30,000.00 (Thirty Thousand Rand) in connection with subsoil water tank to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 30,000 00

Sump Pumps

15 Allow the Budgetary Allowance of R 240,000.00 (Two Hundred and Fourty Thousand Rand) in connection with sump pumps to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).  Item 240,000 00

Carried to Collection  

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Plumbing and Drainage
SA TOURISM EXTENSION TO BASEMENT  
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
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Bill No. 8
Plumbing and Drainage
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
### Item No

**BILL NO. 9**

**PAINTWORK**

**SUPPLEMENTARY PREAMBLES**

Protection and cleaning

The contractor shall provide the tarpaulins, cover-sheets, etc., as may be necessary for the protection of the works during painting. Before painting is commenced, all floors shall be swept, walls dusted and no further sweeping or dusting shall be allowed before all painted surfaces are completely dry.

Paint on pipes, gutters, etc.

Paint on pipes, gutters, etc., is hereby deemed to include the associated painting of the affected holderbats, hangers, clips, brackets and similar fixings.

**PREPARATORY WORK TO EXISTING PAINTED SURFACES**

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.

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.

**PAINTWORK TO NEW WORK**

**SMOOTH PLASTERED SURFACES**

[Carried to Collection]

Bill No. 9
Paintwork
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Prepare and apply, prime, undercoat and two coats "Plascon" paint.

1. On internal bagged walls. m² 462
2. On columns. m² 97
3. On concrete ceiling surfaces. m² 1,070

**SIGNWRITING**

Road marking paint on concrete

4. Line 150mm wide. m 190
5. Numeral or letter 500mm high. No 63

**BUDGETARY ALLOWANCES**

Directional signage

6. Allow the Budgetary Allowance of R3,000.00 (Three Thousand Rand) for directional signage by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required). Item 3,000 00

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**Carried to Collection**

Bill No. 9
Paintwork
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Bill No. 9
Paintwork

SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES

Carried to Summary

R
BILL NO. 10

EXTERNAL WORK

SUPPLEMENTARY PREAMBLES

Nature of ground

The term "earth" as used throughout these Bills of Quantities shall included for all materials defined as "soft excavation" in the Standard Preambles.

The tenderer is referred to PDNA drawing No. 100 "Proposed Services Layout" and drawing ARQ drawing No. 4378-001 "General Notes and Specification" which accompanies these Bills of Quantities in respect of items applicable to this trade. No claims will afterwards be considered where the tenderer has failed to comply with this instruction.

NOTE
"EARTH" is to mean compacted terrace undertaken under a separate contract.

Carting away of excavated material

Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or alternatively from stock piles situated on the building site.

ROADWORK, PARKING AREAS AND PAVING

Precast concrete block road surfacing

Paving shall be laid in accordance with SABS 1200 MJ, SANS 1058 and the Concrete Masonry Association's specifications.

PAVERS

SITE PREPARATION

1 Rip, scarify and remove all possible tree roots and recompact base material to 93% MOD AASHTO
   m² 1,386

   Earth filling supplied by the contractor under pavings, etc.

2 C5 material compacted in layers not exceeding 150mm to 98% Mod. AASHTO density.
   m³ 208

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Bill No. 10
External Works
SA TOURISM EXTENSION TO BASEMENT
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### INTERLOCKING BLOCKS

Concrete interlocking block pavers:

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<th>Description</th>
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<th>Quantity</th>
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<tr>
<td>3</td>
<td>80mm Grey interlocking block paving on 20mm bedding and filler sand including filling in at margins with concrete.</td>
<td>m²</td>
<td>1,386</td>
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**Kerbing:**

<table>
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</thead>
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<tr>
<td>4</td>
<td>Semi mountable (figure 7) road kerb</td>
<td>m</td>
<td>145</td>
</tr>
<tr>
<td>5</td>
<td>Semi mountable (figure 7) road kerb circular on plan.</td>
<td>m</td>
<td>25</td>
</tr>
<tr>
<td>6</td>
<td>Fully mountable (figure 8) road kerb</td>
<td>m</td>
<td>25</td>
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</table>

**External floor tiling**

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<th>Description</th>
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<tr>
<td>7</td>
<td>400 x 400 x 20mm Black natural slate floor tiles laid on, and including, 25mm thick screed, with straight joints to falls on entrances, steps and thresholds.</td>
<td>m²</td>
<td>351</td>
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### ROAD MARKINGS, SIGNAGE, ETC.

Road-paint signs, etc., on block, or tarmac, paving

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<tr>
<td>8</td>
<td>100mm Wide solid line.</td>
<td>m</td>
<td>219</td>
</tr>
<tr>
<td>9</td>
<td>150mm Wide line.</td>
<td>m</td>
<td>21</td>
</tr>
<tr>
<td>10</td>
<td>3.6m Long &quot;straight arrow&quot; directional sign.</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>11</td>
<td>1m High &quot;handicapped person&quot; sign.</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>1m High &quot;no entry&quot; sign.</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>1m High &quot;yield&quot; sign.</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>14</td>
<td>1m High &quot;beware pedestrians&quot; sign.</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>15</td>
<td>1m High &quot;STOP&quot; wording.</td>
<td>No</td>
<td>6</td>
</tr>
<tr>
<td>16</td>
<td>1m High &quot;NO PARKING&quot; wording.</td>
<td>No</td>
<td>2</td>
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### BUDGETARY ALLOWANCES

**Palisade Fencing**

<table>
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<td>17</td>
<td>Allow the Budgetary Allowance of R 220,000.00 (Two Hundred and Twenty Thousand Rand) for palisade fencing to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>Item</td>
<td>220,000.00</td>
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*SA TOURISM EXTENSION TO BASEMENT 3711-J07-13 PROVISIONAL BILL OF QUANTITIES*
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<th>Item</th>
<th>Description</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>18</td>
<td>Allow the Budgetary Allowance of R 18,000.00 (Eighteen Thousand Rand) for a sliding gate to the temporary entrance to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>18,000 00</td>
</tr>
<tr>
<td>19</td>
<td>Allow the Budgetary Allowance of R 4,500.00 (Four Thousand and a Five Hundred Rand) for a gate to the new pedestrian entrance to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>4,500 00</td>
</tr>
<tr>
<td>20</td>
<td>Allow the Budgetary Allowance of R 30,000.00 (Thirty Thousand Rand) for landscaping to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>30,000 00</td>
</tr>
<tr>
<td>21</td>
<td>Allow the Budgetary Allowance of R 95,000.00 (Ninety Five Thousand Rand) for a new guard house to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>95,000 00</td>
</tr>
<tr>
<td>22</td>
<td>Allow the Budgetary Allowance of R 65,000.00 (Sixty Five Thousand Rand) for two new balconies to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>65,000 00</td>
</tr>
<tr>
<td>23</td>
<td>Allow the Budgetary Allowance of R9,000.00 (Nine Thousand Rand) for a roller shutter door to be executed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td>9,000 00</td>
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**Carried to Collection**

Bill No. 10
External Works
SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES
Bill No. 10
External Works

**COLLECTION**

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Bill No. 10
External Works
**SA TOURISM EXTENSION TO BASEMENT**
**3711-J07-13 PROVISIONAL BILL OF QUANTITIES**
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<td>FITTINGS</td>
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<tr>
<td>FIRE SIGNAGE</td>
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<tr>
<td>1 Allow a Provisional Sum of R12,000.00 (Twelve Thousand Rand) for internal and external signage.</td>
<td>Item</td>
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<td>12,000.00</td>
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<tr>
<td>2 Allow for profit.</td>
<td>Item</td>
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<tr>
<td>3 Allow for attendance.</td>
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<td>VENTILATION SHAFTS</td>
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<tr>
<td>VENTILATION SHAFTS</td>
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<td></td>
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<tr>
<td>4 Allow a Provisional Sum of R180,000.00 (One Hundred and Eighty Thousand Rand) for ventilation shafts</td>
<td>Item</td>
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<td>180,000.00</td>
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<td>5 Allow for profit.</td>
<td>Item</td>
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<td>6 Allow for attendance.</td>
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<tr>
<td>ELECTRICAL WORK</td>
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<td></td>
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<tr>
<td>7 Allow a Provisional Sum of R500,000.00 (Five Hundred Thousand Rand) for electrical work.</td>
<td>Item</td>
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<td>500,000.00</td>
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<td>8 Allow for profit.</td>
<td>Item</td>
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<td>9 Allow for attendance.</td>
<td>Item</td>
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<tr>
<td>VENTILATION</td>
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<tr>
<td>10 Allow a Provisional Sum of R350,000.00 (Three Hundred and Fifty Thousand Rand) for Ventilation to the basements</td>
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<td>350,000.00</td>
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<td>11 Allow for profit.</td>
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<td>12 Allow for attendance.</td>
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Provisional Sums
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<th>FIRE SERVICE</th>
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<td>Allow a Provisional Sum of R270,000.00 (Two Hundred and Seventy Thousand Rand) for fire service.</td>
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<td>Allow for profit.</td>
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<td>Allow for attendance.</td>
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<td>ACCESS CONTROL</td>
<td>Item</td>
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<tr>
<td>Allow a Provisional Sum of R120,000.00 (One Hundred and Twenty Thousand Rand) for access control.</td>
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<td>Allow for attendance.</td>
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<td>BUDGETARY ALLOWANCES</td>
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<tr>
<td>Builders works in connection with services</td>
<td></td>
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<tr>
<td>Allow the Budgetary Allowance of R18,000.00 (Eighteen Thousand Rand) for builders works in connection with services by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td></td>
<td>18,000 00</td>
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<tr>
<td>Fire escape stairs</td>
<td>Item</td>
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<tr>
<td>Allow the Budgetary Allowance of R150,000.00 (One Hundred and Fifty Thousand Rand) for a fire escape staircase to be completed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
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<td>150,000 00</td>
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<tr>
<td>Fire Hose Reels</td>
<td>Item</td>
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<tr>
<td>Allow the Budgetary Allowance of R35,000.00 (Thirty Five Thousand Rand) for a fire hose reels to be completed by the Contractor (the amount to be deducted in part or as a whole by the Principal Agent if not required).</td>
<td></td>
<td>35,000 00</td>
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Bill No. 11
Provisional Sums

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Provisional Sums
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<td>Alterations</td>
<td>-41-</td>
<td>..................................</td>
</tr>
<tr>
<td>3</td>
<td>Earthworks</td>
<td>-48-</td>
<td>..................................</td>
</tr>
<tr>
<td>4</td>
<td>Piling</td>
<td>-52-</td>
<td>..................................</td>
</tr>
<tr>
<td>5</td>
<td>Concrete, Formwork and Reinforcement</td>
<td>-58-</td>
<td>..................................</td>
</tr>
<tr>
<td>6</td>
<td>Masonry</td>
<td>-62-</td>
<td>..................................</td>
</tr>
<tr>
<td>7</td>
<td>Waterproofing</td>
<td>-65-</td>
<td>..................................</td>
</tr>
<tr>
<td>8</td>
<td>Plumbing and Drainage</td>
<td>-72-</td>
<td>..................................</td>
</tr>
<tr>
<td>9</td>
<td>Paintwork</td>
<td>-75-</td>
<td>..................................</td>
</tr>
<tr>
<td>10</td>
<td>External Works</td>
<td>-79-</td>
<td>..................................</td>
</tr>
<tr>
<td>11</td>
<td>Provisional Sums</td>
<td>-82-</td>
<td>..................................</td>
</tr>
</tbody>
</table>

**LESS:** Credits for all materials other than municipal materials (Refer to Bill No. 2 - Demolitions and Alterations)

**Contingency**

Contingency amount to be used as directed by the Principal Agent and deducted in whole or in part if not required.

Item 2,000,000 00

Carried to Form of Tender

SA TOURISM EXTENSION TO BASEMENT
3711-J07-13 PROVISIONAL BILL OF QUANTITIES