

Item No	Quantity	Rate	Amount
<u>SECTION 1</u>			
<u>BILL NO 1</u>			
<u>PRELIMINARIES</u>			
<u>BUILDING AGREEMENT AND PRELIMINARIES</u>			
The JBCC Principal Building Agreement (March 2014 Edition 6.1) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described			
The errata listed under the Table of Contents on page 3 of the JBCC Principal Building Agreement are deemed to be included in the agreement.			
The JBCC Principal Building Agreement contract data form an integral part of this agreement			
The Preliminaries revision 1 (February 2016) published by the Association of South African Quantity Surveyors for use with the JBCC Principal Building Agreement Edition 6.1 shall be deemed to be incorporated in these bills of quantities , amended as hereinafter described			
The contractor is deemed to have referred to the abovementioned documents for the full intent and meaning of each clause			
The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only			
Where any item is not relevant to this agreement such item is marked N/A signifying "not applicable"			
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<p style="text-align: right;">Brought Forward</p> <p><u>Pricing of Preliminaries</u></p> <p>Should the contractor select Option A in terms of sub-clause 26.9.4 in the Contract Data for the purpose of adjustment of these Preliminaries, the amount entered into the amount column in these preliminaries is to be divided into one or more of the three categories provided namely Fixed (F), Value-related (V) and Time-related (T)</p> <p>Tenderers are advised any item left unpriced shall be deemed to have been included or allowed for elsewhere in the prices.</p> <p>Fixed (F) - A fixed amount, which shall not be varied</p> <p>Value-related (V) - An amount which shall be varied in proportion to the contract value</p> <p>Time-related (T) - An amount which shall be varied in proportion to the construction period</p> <p><u>PREAMBLES FOR TRADES</u></p> <p><u>User note</u></p> <p>The Model Preambles for Trades 2008 as published by the Association of South African Quantity Surveyors shall be deemed to be incorporated in these bills of quantities and no claims arising from brevity of description of items fully described in the said Model Preambles will be entertained</p> <p>Supplementary preambles and/or specifications are incorporated in these bills of quantities to satisfy the requirements of this project. Such supplementary preambles and/or specifications shall take precedence over the provisions of the Model Preambles</p> <p>The contractor's prices for all items throughout these bills of quantities shall take account of and include for all of the obligations, requirements and specifications given in the Model Preambles and in any supplementary preambles and/or specifications</p>	R
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STRUCTURE OF THIS PRELIMINARIES BILL

Section A : A recital of the headings of the individual clauses of

the aforementioned **JBCC Principal**

Building**Agreement**

Section B : A recital of the headings of the individual clauses of

the aforementioned Preliminaries document

Section C : Any special clauses to meet the particular circumstances of the project

SECTION A: PRINCIPAL BUILDING AGREEMENT**Interpretation (A1-A7)**

1/1/1

Clause 1.0 - Definitions and interpretation

Definition of agreement

The definition of **agreement** is replaced with the following definition :

"AGREEMENT : The **JBCC** Principal Building Agreement, the completed **JBCC** PBA contract data, the **contract drawings**, the **priced documents** and any other documents reduced to writing and signed by the **parties**"

Pricing of bills of quantities

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

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

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

Abbreviated descriptions

The items in these **bills of quantities** utilise abbreviated descriptions. It is the intention that the abbreviated descriptions be fully described when read with the applicable measuring system and the relevant preambles and/or specifications. However, should the full intent and meaning of any description not be clear, the **contractor** shall, before submission of his tender, call for a written directive from the **principal agent**, failing which it shall be assumed that the **contractor** has allowed in his pricing for materials and workmanship in terms of international best practice

Legal status of contractor

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

1. These persons are deemed to be jointly and severally liable to the **employer** for the performance of this agreement
2. These persons shall notify the **employer** of their leader who has authority to bind the **contractor** and each of these persons
3. The **contractor** shall not alter its composition or legal status without the prior written consent of the **employer**

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1/1/2	<p style="text-align: center;">Brought Forward</p> <p>Clause 2.0 - Law, regulations and notices</p> <p><u>User note</u></p> <p><i>Insert the following where a health and safety specification is <u>not</u> yet available</i></p> <p>Health and safety</p> <p>F:..... V:..... T:.....</p> <p>Without limiting the generality of the provisions of clause 2.0, the contractor's attention is drawn to the provisions of Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 Edition 19. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specification [2.1, 2.7.2 & 2.7.3]</p> <p>The contractor shall:</p> <ol style="list-style-type: none"> 1. Comply with the health and safety specification for the works 2. Prepare and agree with the health and safety consultant the health and safety plan for the works 3. Co-operate with the health and safety consultant in all respects 4. Manage the compliance of all subcontractors with the regulations and with the health and safety plan and specification 5. Conform to the conditions contained in the employer's health and safety specification <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p> <p style="text-align: center;">R</p>
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1/1/3	<p>Clause 3.0 - Offer and acceptance</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/4	<p>Clause 4.0 - Assignment and cession</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/5	<p>Clause 5.0 - Contract documents</p> <p>Value Added Tax</p> <p>Provision is made in the summary page of these bills of quantities for the inclusion of Value Added Tax (VAT)</p> <p>Priced document as specification</p> <p>Clause 5.3 is deemed to be deleted</p> <p>The principal agent shall decide which portion of the priced document may be used as a specification of materials and goods or methods, if any</p> <p>Electronic issue of drawings</p> <p>All drawings for this project will be issued electronically and the contractor shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.5]</p> <p>Precedence</p> <p>Clause 5.6 is deemed to be deleted. The provisions of this Bill No. 1 (Preliminaries) shall take precedence over any other documents which constitute this agreement [5.6]</p> <p>F:..... V:..... T:.....</p>	Item	
1/1/6	<p>Clause 6.0 - Employer's agents</p> <p>Delegated authority</p> <p>The authority of the principal agent to issue contract instructions and perform duties for specific aspects of the works is delegated to agents as follows [6.2]</p>		
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1/1/7	<p>Clause 7.0 - Design responsibility</p> <p>F:..... V:..... T:.....</p> <p><u>Insurance and security (A8-A11)</u></p>	Item
1/1/8	<p>Clause 8.0 - Works risk</p> <p>F:..... V:..... T:.....</p>	Item
1/1/9	<p>Clause 9.0 - Indemnities</p> <p>F:..... V:..... T:.....</p>	Item
1/1/10	<p>Clause 10.0 - Insurances</p> <p>F:..... V:..... T:.....</p> <p>The Contractor is to ensure that he is properly and adequately insured in respect of all risk, public liability, workmen and materials on site.</p>	Item
1/1/11	<p>Clause 11.0 - Security</p> <p>Extension of waiver of lien</p> <p>The contractor shall ensure that a waiver of lien is included in all subcontracts and that the works executed on the site are kept free of all liens and other encumbrances at all times [11.10]</p> <p>F:..... V:..... T:.....</p> <p><u>Execution (A12 - A17)</u></p>	Item
1/1/12	<p>Clause 12.0 - Duties of the parties</p> <p>Provisions of clauses 12.1.2 to 12.1.6 and 12.2.18</p> <p>Refer to the contract data, the Preliminaries document and "Section B : Preliminaries" of this Bill No. 1 with reference to the provisions of clauses 12.1.2 to 12.1.6 and 12.2.18 of the JBCC Principal Building Agreement</p>	
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<p style="text-align: center;">Brought Forward</p> <p>Office accommodation</p> <p>The contractor shall provide, maintain and remove on practical completion air conditioned office accommodation with suitable tables and chairs for meetings to be held on the site. Such offices shall be kept clean and fit for use at all times [12.2.18]</p> <p>Notice board</p> <p>The contractor shall erect in a position approved by the principal agent, maintain and remove on practical completion a notice board recommended by the South African Institute of Architects and as approved by the principal agent listing the names and logos of the employer, the contractor, and the professional consultants. No subcontractor or supplier notice boards may be erected unless permission is granted by the principal agent for such notice boards to be erected [12.2.18]</p> <p>Access to water, sewer, stormwater and electricity connections</p> <p>The employer is not in a position to identify access to water, sewer, stormwater and/or electricity connections to the site as may be suitable for the execution of the works. The contractor is to allow what he considers to be required and is to qualify his tender in detail in this regard, failing which it shall be taken that the contractor has allowed what will be required for the execution of the works. In such case no claims for additional cost or loss shall be entertained [12.1.5]</p> <p>Statutory and other notices</p> <p>The contractor shall submit and/or comply with all statutory and other notices that may be required by any local or other authority in order not to cause any delay to the commencement of the works by the contractor. The contractor shall pay all deposits or fees in this regard [12.1.6]</p> <p>It is, however, specifically recorded that the employer shall be responsible for the timeous approval of building plans by any local or other authorities and the payment of any fees or charges related thereto</p> <p>F:..... V:..... T:.....</p>	<p style="text-align: center;">Item</p>	<p style="text-align: center;">R</p>	
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1/1/13

Clause 13.0 - Setting out

The contractor shall be responsible for the verification and protection of the location of all existing services. In the event that existing services are damaged by the contractor or sub-contractors then the damaged services shall be reinstated to the approval of the relevant authorities, all at the expense of the contractor

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

1/1/14

Clause 14.0 - Nominated subcontractors

General attendance by the contractor upon n/s subcontractors shall be in accordance with the n/s agreement. Notwithstanding this provision, general attendance shall be deemed to include for the contractor to provide free of charge to any n/s subcontractor such scaffolding as required by such subcontractor for the execution of the relevant subcontract works

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

Item

1/1/15

Clause 15.0 - Selected subcontractors

Refer to provisions on general attendance in previous clause 14.0 which shall apply equally to this clause

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

Item

1/1/16

Clause 16.0 - Direct contractors**Attendance on direct contractors**

In respect of **direct contractors** the **contractor** shall:

1. Designate an area for the **direct contractor** to establish a temporary office and workshop and storage of equipment and materials
2. Allow the use of personnel welfare facilities, where provided

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

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

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

Item

1/1/17 Clause 17.0 - **Contract instructions**

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

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

Item

Completion (A18 - A24)

1/1/18 Clause 18.0 - Interim completion

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

Item

1/1/19 Clause 19.0 - **Practical completion**

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

Item

1/1/20 Clause 20.0 - Sectional completion

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

1/1/21 Clause 21.0 - **Defects** liability period and **final completion**

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

1/1/22 Clause 22.0 - **Latent defects** liability period

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

Item

1/1/23 Clause 23.0 - Revision of date for **practical completion**

Substitution of materials and goods

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

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

Item

1/1/24 Clause 24.0 - **Penalty** for late or non-completion

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

Item

Payment (A25 - A27)

1/1/25 Clause 25.0 - Payment

Materials and goods prematurely on site

Materials and goods brought onto the site prematurely shall not be authorised for payment [25.3.2]

Materials and goods stored off site

Materials and goods stored off **site** shall be authorised for payment subject to a **guarantee for advance payment** being provided to the **employer** [25.3.2]

Materials must be stored safely and protected against loss or damage

Materials must be covered by insurance

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Fluctuations in costs

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

Prices submitted

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

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

Item

1/1/26

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

Tenant installations/users requirements delayed

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

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

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

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Cost of claims

All costs incurred by the **contractor** in the preparation of claims shall be borne by the **contractor**. This provision shall not preclude an adjudicator or an arbitrator appointed in terms of this **agreement** [30.6,7] from making a determination on costs

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

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

Item

1/1/27 Clause 27.0 - Recovery of expense and/or loss

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

Item

Suspension and termination (A28 - A29)

1/1/28 Clause 28.0 - Suspension by the **contractor**

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

Item

1/1/29 Clause 29.0 - Termination

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

Item

Dispute resolution (A30)

1/1/30 Clause 30.0 - Dispute resolution

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

Item

1/1/31 **Contract data**

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<p style="text-align: right;">Brought Forward</p> <p>Payment of preliminaries</p> <p>Where Option B is applicable and the initial construction period is extended the monthly charge shall be recalculated on the same basis as was initially applied but taking into account the revised construction period and the amounts already paid to the contractor [CD26.0]</p> <p>Adjustment of preliminaries</p> <p>Where the adjustment of preliminaries is in terms of Option A, the construction period and the initial construction period shall be calculated in working days [CD 26.0]</p> <p>Where the adjustment of preliminaries is in terms of Option A, the breakdown of charges into three categories and, where applicable, the appointment of preliminaries amounts per section, shall be provided by the contractor in schedule form indicating which items in this Preliminaries Bill are priced and whether they are fixed, Value - related or Time - related or a combination of categories. Alternatively, the contractor may provide the breakdown described above by marking each amount in this Preliminaries Bill with a "F", "V", "T" to indicate Fixed, Value - Related or Time - related respectively. Should the contractor fail to provide the sectional apportionment within the period stipulated, the categorised amounts shall be prorated to the value of each section [CD 26.0]</p> <p>Where the adjustment of preliminaries is required in terms of Option B, the detailed breakdown of preliminaries amounts and, where applicable, the apportionment of preliminaries amounts per section, shall be provided by the contractor in an approved schedule form which separates, as a minimum, the administrative and supervisory staff, the use of construction equipment in terms of the programme, establishment and disestablishment charges, Insurances and Guarantees, site office costs and the like. Should the contractor fail to provide such information within the period stipulated, Option A shall apply [CD 26.0]</p>	R
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1/1/32 **Changes made to JBCC documentation**

It is specifically agreed that the note below calling for amendments to the standard JBCC Agreement to be listed in the space provided in the contract data or recorded in "the single referenced Annexure" shall not apply. Where standard clauses or alternatives are not entirely applicable to this agreement, modifications, corrections or supplements as will apply are given under each relevant clauses heading in this Preliminaires Bill and such amendments, modifications, corrections or supplements shall take precedence notwithstanding the note below and notwithstanding the provisions of clause 5.6 of the JBCC Principal Building Agreement.

1/1/33 **Contract Data**

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

Item

SECTION B: PRELIMINARIES**Interpretation (B1)**

1/1/34 Clause 1.1 - Definitions

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

Item

1/1/35 Clause 1.2 - Interpretation

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

Item

Documents (B2)

1/1/36 Clause 2.1 - Checking of documents

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

1/1/37 Clause 2.2 - Provisional **bills of quantities**

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1/1/38 Clause 2.3 - Availability of **construction information****Budgetary allowances and provisional sums**

The **budgetary allowances** and/or **provisional sums** allocated for subsequent trades included in this **agreement** will be separately procured, based on multiple procurement of **subcontractors** during the **construction period**

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

Item

1/1/39 Clause 2.4 - Ordering of **materials and goods**

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

Item

Previous work and adjoining properties (B3)

1/1/40 Clause 3.1 - Previous work - dimensional accuracy

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

Item

1/1/41 Clause 3.2 - Previous work - **defects**

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

Item

1/1/42 Clause 3.3 - Inspection of adjoining properties

A photographic record must be handed over to the Principal Agent prior to commencing work on site

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

Item

The site (B4)1/1/43 Clause 4.1 - Defined **works** area

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

Item

1/1/44 Clause 4.2 - Handover of **site** in stages

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1/1/45 Clause 4.3 - Enclosure of the **works**
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1/1/46 Clause 4.4 - Geotechnical investigation
 F:..... V:.....
 T:.....

Item

1/1/47 Clause 4.5 - Encroachments
 F:..... V:.....
 T:.....

Item

1/1/48 Clause 4.6 - Existing premises occupied
 F:..... V:.....
 T:.....

Item

1/1/49 Clause 4.7 - Services - known
 F:..... V:.....
 T:.....

Item

1/1/50 Clause 4.8 - Protection of trees and/or relevant natural
 features
 F:..... V:.....
 T:.....

Item

Management of contract (B5)

1/1/51 Clause 5.1 - Management of the **works**
 F:..... V:.....
 T:.....

Item

1/1/52 Clause 5.2 - Progress meetings
 F:..... V:.....
 T:.....

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1/1/53 Clause 5.3 - Technical meetings
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Samples, shop drawings and manufacturer's instructions (B6)

1/1/54

Samples, shop drawings and manufacturer's instructions (B6)

Clause 6.1 - Samples of materials

Clause 6.1 is hereby amended by the addition of the following:

The principal agent may reject any material 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 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.

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Item

1/1/55

Clause 6.2 - Workmanship samples

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

Item

1/1/56

Clause 6.3 - Shop drawings

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

Item

1/1/57

Clause 6.4 - Compliance with manufacturer's instructions

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Deposits and fees (B7)

1/1/58 Clause 7.1 - Deposits and fees

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

T:.....

Item

Temporary services (B8)

1/1/59 Clause 8.1 - Water

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

T:.....

Item

1/1/60 Clause 8.2 - Electricity

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

T:.....

Item

1/1/61 Clause 8.3 - Ablution and welfare facilities

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

T:.....

Item

1/1/62 Clause 8.4 - Communication facilities

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

T:.....

Item

Prime cost amounts (B9)1/1/63 Clause 9.1 - Responsibility for **prime cost amounts**

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Attendance on subcontractors (B10)

1/1/64

Clause 10.1 - General attendance

General Attendance on N/S Subcontracts

The following sub clauses are added:

10.1.1 Access to the site and places where the subcontract work is to be carried out, including the reasonable use of any temporary personnel hoists erected by the contractor.

10.1.2 The provision of water and lighting and of single phase electric power to a position within 50 metres of the place where the subcontract work is to be carried out but excluding water, fuel and power for commissioning of any installation.

10.1.3 The provision of an area for the subcontractor to establish temporary office accommodation and workshop and for the storage of plant and materials.

10.1.4. The use of erected scaffolding belonging to the contractor, in common with others having the like right, as necessary to complete the works.

10.1.5. The use, at reasonable times by arrangement of the contractor's erected hoisting equipment.

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

Item

1/1/65

Clause 10.2 - Special attendance

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

General (B11)

1/1/66

Clause 11.1 - Protection of the **works**

F:..... V:.....
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1/1/67 Clause 11.2 - Protection/isolation of existing/sectionally occupied **works**

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

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1/1/68 Clause 11.3 - Security of the **works**

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

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1/1/69 Clause 11.4 - Notice before covering work

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

Item

1/1/70 Clause 11.5 - Disturbance

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

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Clause 11.6 - Environmental disturbance

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

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1/1/71 Clause 11.7 - **Works** cleaning and clearing

The **contractor** shall ensure that the roads, pavements, etc leading to and around the **site** are kept free from obstruction, debris, etc at all times. In no way shall the work on the **site** be the cause of any inconvenience or hindrance to traffic or pedestrians. The **contractor** shall be responsible to ensure that all vehicles leaving the **site** do not deposit earth, mud, debris, etc either by spillage or via the wheels on any roads.

The **contractor** shall have no claim against the **employer** in the event that the **contractor** is held accountable by any local authority or police for any action such as overloading vehicles, causing damage to roads while carting goods and materials onto or away from the **site**, restrictions on masses or dimensions of loads, holding up traffic, etc.

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1/1/72	Clause 11.8 - Vermin F:..... V:..... T:.....	Item
1/1/73	Clause 11.9 - Overhand work F:..... V:..... T:.....	Item
1/1/74	Clause 11.10 - Tenant installations by direct contractors F:..... V:..... T:.....	Item
1/1/75	Clause 11.11 - Advertising F:..... V:..... T:.....	Item

Preliminaries schedule (B12)

1/1/76	Information for completion of the preliminaries schedule Information necessary for elections and completion of those clauses contained in the preliminaries schedule which are necessary for tender purposes is given hereunder. Where no information is given it shall mean that no specific requirements are expected or that the clause is not relevant to this specific contract 12.1 - Provisional bills of quantities [2.2] The quantities are provisional No 12.2 - Availability of construction information [2.3] Construction documentation is complete Yes 12.3 - Previous work - dimensional accuracy [3.1] The contractor is required to check the site for dimensional accuracy of the previous works, report thereon in detail possession of the site. Failure by the contractor to comply with the above shall deem the previous works to be correct, and this shall be the basis for adjustment to contract value.
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Carried Forward

R

Section No. 1
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Bill No. 1
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<p style="text-align: center;">Brought Forward</p> <p>12.4 - Previous work - defects [3.2]</p> <p>not applicable</p> <p>12.5 - Inspection of adjoining properties [3.3]</p> <p>Specific Requirements:</p> <p>The contractor shall make a photographic record of all adjoining/ existing properties, buildings, walls, boundary fences, roads, pavements, kerbs, etc that could be affected by the works and deliver same recorded on a CD to the principal agent.</p> <p>12.6 - Defined works area [4.1]</p> <p>12.7 - Handover of site in stages [4.2]</p> <p>12.8 - Enclosure of the works [4.3]</p> <p>12.9 - Geotechnical investigation [4.4]</p> <p>12.10 - Existing premises occupied [4.6]</p> <p>12.11 - Services - known [4.7]</p> <p>12.12 - Protection of trees and/or relevant natural features [4.8]</p> <p>12.13 - Water [8.1]</p> <p style="padding-left: 40px;">Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered) No</p> <p>12.14 - Electricity [8.2]</p> <p style="padding-left: 40px;">Option A (by contractor) Yes Option B (by employer - free of charge) No Option C (by employer - metered) No</p> <p>12.15 - Ablution and welfare facilities [8.3]</p> <p style="padding-left: 40px;">Option A (by contractor) Yes Option B (by employer) No</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p>
	<p style="text-align: center;">R</p>

<p style="text-align: center;">Brought Forward</p> <p>12.16 - Communication facilities [8.4]</p> <p>Specific Requirements: Contractor`s account</p> <p>12.17 - Protection of the works [11.1]</p> <p>Specific Requirements: The Contractor shall be liable for all damages to adjoining properties and existing roads and pavement and must make good all damages to same at his own expense all to the satisfaction of the Principal Agent.</p> <p>12.18 - Protection/isolation of existing/sectionally occupied works [11.2]</p> <p style="padding-left: 40px;">Protection/isolation is required Yes</p> <p>12.19 - Disturbance [11.5]</p> <p>Specific Requirements: Minimising disturbanceAll work is to be carried out in such a manner as to cause no unacceptable or unreasonable dust, noise, vibrations, nuisance, inconvenience, annoyance and the like to the public, others, other properties and traffic in so far as they exceed the permissible limitations set by government legislation or by the local authority.</p> <p>Whilst the employer shall not impose restrictions upon the contractor's working hours, the contractor shall take all measures available to him in order to minimise noisy operations during business hours. Such measures will include, inter alia, the use of silent compressors and strict control of workmen.</p> <p>Any delays, stoppages and the like arising from or in order to comply with the above will not constitute grounds for an adjustment to the construction period or contract value whatsoever.</p> <p>12.20 - Environmental disturbance [11.6]</p> <p style="text-align: center;">Carried Forward</p> <p>Section No. 1 Preliminaries Bill No. 1 Preliminaries</p>	<p style="text-align: center;">R</p> <p style="text-align: center;">R</p>
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Brought Forward

R

Controlling all forms of pollution

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

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

Environmental management plan

The **employer** has prepared an environmental management plan (EMP) (refer to Scope of works C3.7). The **contractor** shall price opposite this item for compliance with all the requirements of such EMP

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

Item

SUPPLEMENTARY DOCUMENTATION**AS BUILT DRAWINGS**

1/1/77

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

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

WARRANTIES FOR MATERIALS AND WORKMANSHIP

1/1/78

Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the entity supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract

The warranty shall state that workmanship, materials and installation are warranted for a specific period from the date of practical completion and that any defects that may arise during the specified period shall be made good at the expense of the entity supplying the materials and/or doing the work, upon written notice to do so

The warranty will not be enforced if the work is damaged by defects in the execution of the works, in which case the responsibility for replacement shall rest entirely with the contractor. The principal agent shall be the sole judge of the cause responsible for defects in the work and his ruling shall be final and binding.

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

Item

Carried Forward

R

Section No. 1
Preliminaries
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Brought Forward

R

SECTION C: SPECIFIC PRELIMINARIES**ENCLOSURE OF WORKS.**

The contractor shall erect whatever other site enclosure, hoardings, access gates, etc he deems necessary to maintain the security of the works, his temporary offices, stores, etc and to protect the general public from accessing dangerous construction areas, and he shall maintain such enclosure during the course of the works and remove same prior to practical completion.

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

Item

1/1/79

DEFINED WORKS AREA

The area of the works to be occupied by the contractor, any restriction to the area and the limit of access or exit will be pointed out to the contractor by the principal agent on handing over of the site.

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

Item

1/1/80

LABOUR RECORD

At the end of each week the contractor shall provide the Principal Agent with written record, in schedule form, reflecting the number and description of tradesmen and labourers employed by him and all sub-contractors on the works each day

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

Item

Carried Forward

R

Section No. 1
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Brought Forward

R

1/1/81

EMPLOYMENT OF ILLEGAL WORKERS

No illegal (migrant) workers may be employed or allowed on the site by any contractor or subcontractor. Precautions to prevent illegal workers being employed shall include but not be limited to the following:

1. Records of all workers shall be maintained by all contractors and subcontractors, and shall be submitted to the contractor's site agent on a daily basis.
2. Advise all persons entering the site by means of notices or posters that illegal workers will not be employed on the site, and that any illegal workers found on site will be reported to the authorities.
3. Advise all persons entering the site by means of notices or posters that anyone who fails to provide full and proper means of identification when requested to do so by a supervisor will not be allowed to remain on the site.

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

Item

1/1/82

OVERTIME

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

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/83 CO-OPERATION OF THE CONTRACTOR FOR COST MANAGEMENT

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

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

Item

1/1/84 PRICES FOR VARIATIONS

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 to be any assumption of their acceptance.

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

Item

1/1/85 SCAFFOLDING

Tenderer to allow for scaffolding in accordance with the scope, including the provision of scaffolding for sub contractors as necessary to complete the works

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/86 CHANGES TO THE SCOPE OF WORKS

The client reserves the right to extend the scope of works by not more than 20 percent (%) of the tendered quantities without repricing.

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

Item

1/1/87 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. Copies to be sent to Principal Agent and Quantity Surveyor weekly.

No verbal Contract Instructions will be considered for remuneration.

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/88 WARRANTIES FOR MATERIAL AND WORKMANSHIP

Where warranties for materials and/or workmanship are called for, the contractor shall obtain a written warranty, addressed to the employer, from the firm supplying the materials and/or doing the work and shall deliver same to the principal agent on the final completion of the contract. The warranty shall state that workmanship, materials and installation are warranted for a specified period from the date of final completion and that any defects that may arise during the specified period shall be made good at the expense of the firm supplying the materials and/or doing the work, upon written notice to do so. The warranty will not be enforced if the work is damaged by defects in the construction of the building in which case the responsibility for replacement shall rest entirely with the contractor

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

Item

1/1/89 COOPERATION OF THE CONTRACTOR FOR COST MANAGEMENT

It is specifically agreed that the contractor accepts the obligation of assisting the principal agent in implementing proper cost management. The contractor will be advised by the principal agent of all cost management procedures which will be implemented to ensure that the final building cost does not exceed the budget. The principal agent undertakes to make available to the contractor all budgetary allowances and cost assessments/reports to enable the proper procedure to be implemented and the contractor shall attend all cost plan review and cost management meetings. The contractor undertakes to extend these procedures, as necessary, to all subcontractors

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/90 TESTING OF WINDOWS FOR WATERTIGHTNESS

Each window shall be tested for watertightness with water sprayed on using adequate pressure. If in the opinion of the principal agent the pressure proves to be inadequate, then the pressure shall be boosted by means of compressed air or other approved means

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

Item

1/1/91 CONFIDENTIALITY

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

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

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/92 GROUND AND ACCESS TO WORKS

On completion of operations, the contractor shall restore the ground surface, wherever it may have been disturbed, to its original condition by filling ruts with material similar to the material within the rut and levelling the ground and, where necessary, plant grass and shrubs as may be required. Reinstatement operations to be done at the Contractor's expense.

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

Item

1/1/93 CONTRACT DRAWINGS

Should any part of the drawings not be clearly understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the principal agent

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

Item

1/1/94 TRADE NAMES

Wherever a trade name for any product has been described in the bills of quantities / lump sum document, the tenderer's attention is drawn to the fact that any other product of equal quality may be used subject to the written approval of the principal agent being obtained prior to the closing date for submission of tenders

If prior written approval for an alternative product is not obtained, the product described shall be deemed to have been tendered for

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/95 IMPORTED MATERIALS AND EQUIPMENT

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment to be completed by tenderer)

Notwithstanding any provisions elsewhere regarding the adjustment of contract prices, the price of any item, material or equipment listed in terms of this clause shall be excluded from the Contract Price Adjustment Provisions (if applicable)

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

Item

1/1/96 ACCESS TO SITE LOCATIONS

The site is located in Bulwer, Umzimkhulu and the tenderer must allow in his pricing for access and other considerations specific to these environments

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/97	SECURITY / BACKGROUND CHECKS OF PERSONNEL
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The principal agent may require the contractor to have his personnel and workmen, or a certain number of them, undertake criminal background checks

In the event of the principal agent requesting the removal of a person or persons from the works for security reasons, the contractor shall do so forthwith and shall thereafter ensure that such person or persons are denied access to the works and the site and/or to any document or information relating to the works

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

Item

1/1/98 SITE AND CONTACT RESTRICTIONS

The contractor is required to keep his personnel and operations limited to the site boundary defined by the principal agent

Under no circumstances is the contractor's workmen permitted to have any contact with any other person on the property except for the contact person/s identified by the principal agent for the purpose of liaising with the contractor's representative

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/99 HIV/AIDS AWARENESS

It is required of the contractor to thoroughly study the HIV/AIDS Specification that must be read together with and is deemed to be incorporated under this Section of the bills of quantities / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements

of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The contractor must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Section A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Item

1/1/100 AWARENESS CHAMPION

Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/101 AWARENESS WORKSHOPS

Selection and appointment of a competent Service Provider approved by the principal agent, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

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

Item

1/1/102 POSTERS, BOOKLETS, VIDEOS, ETC

Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the construction period, all in accordance with the HIV/AIDS Specification

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

Item

1/1/103 ACCESS TO CONDOMS

Provision and maintenance of condom dispensers fixed in position, including male and female condoms, replenishing male and female condoms on a daily basis as required for the duration of the construction period, all in accordance with the HIV/AIDS Specification

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

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

1/1/104 MONITORING

Monitoring HIV/AIDS awareness of workers, providing the principal agent with access to information including making available all reports, thoroughly completed and reflecting the correct information, for the duration of the construction period and close out, all in accordance with the HIV/AIDS Specification

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

Item

1/1/105 UTILISE LOCAL RESOURCES

Utilise local resources on the project

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

Item

Carried Forward

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

R

R

Brought Forward

R

1/1/106

OCCUPATIONAL HEALTH AND SAFETY

The contractor shall comply with all the requirements set out in the Construction Regulations, 2014 issued under the Occupational Health and safety Act, 1993 (Act No 85 of 1993)

It is required of the contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities / lump sum document

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of clause A31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance.

The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

Provision for pricing of the Occupational Health and Safety Act, Construction Regulations and Health and safety Specification is made under this clause and it is explicitly pointed out that all requirements of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

Provide the amount for the cost of employing a full time Health & Safety Officer for the duration of the project

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

1/1/107 SAFETY EQUIPMENT

Personal protective equipment, clothing, fencing, signage, and other safety equipment. F:.....
V:..... T:.....

Item

1/1/108 **COMMUNITY LIAISON OFFICER (CLO)**

The contractor shall allow for and pay any and all costs necessary for the engagement of the services of a Community Liaison Officer (CLO) for the full duration of this contract.

A CLO will be identified by the local structures of the ward areas and appointed following fair and transparent interviewing process, to be conducted in the presence of local structures and the contractor representative, in order to assist the Contractor in the procurement of any local labour, etc. required for this project. The contractor is to liaise with the CLO and afford him any assistance needed in ensuring sound working relations with the local community.

Key Responsibilities of the CLO are envisaged to include and not necessary be limited to:

1. Assisting local leadership in conducting skills and resources audit which facilitates sourcing labour from within the ward or targeted areas for employment, as required by the contractor.
2. Assisting in sourcing labour only domestic sub-contractors and the procurement of materials from local resources, as required by the contractor.
3. Assisting the contractor by identifying areas of potential conflict and of threats to the project or to stakeholders in the project and recommend appropriate action to the contractor.
4. Assisting contractor and stakeholders in the project in the resolution of any conflict which may arise.
5. Establishing and ensuring that sufficient and open communication channels between the contractor and the work force are maintained.
6. Establish and ensuring that efficient and open

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Brought Forward

R

communication channels between the contractor and the community are maintained.

7. Identifying and reporting to the contractor regarding issues where communication between stakeholder is necessary, recommend courses of action and facilitate such communications

8. Assisting the Contractor and the work force in the establishment of grievance procedures and necessary recommendation to the contractor regarding the grievances and solution thereto.

9. Attending to site meetings and project implementation meetings as required by the Contractor and prepare periodic reports as may be required by the Contractor from time to time.

10. Attending to such other duties which are consistent with the functions of a CLO, as may be required by the Contractor from time to time.

Tenderers are to price twice the rate of unskilled local labour rate against this item for any and all costs arising out of compliance with the foregoing and in the event of a Tenderer failing to price against this item or making inadequate financial provision against this item for compliance as aforesaid, then no claim for costs or additional cost incurred will be entertained by the Principal Agent.

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

Item

1/1/109

SUB-CONTRACTING

A tenderer to sub-contract a minimum 15% of the contract value to EME's and QSE's as defined in the Preferential Procurement Policy Regulations 2017 and have black ownership of 51% and above. The sub-contractor must reside within the municipal ward.

Item

Carried Forward

R

Section No. 1
Preliminaries
Bill No. 1
Preliminaries

Item No	Quantity	Rate	Amount
<u>SECTION 2</u>			
<u>BILL NO. 1</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<p>The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<p>The nature of the ground is assume to be gravel, therefore "earth", but possibly interspread with "soft rock" or "hard rock"</p>			
<u>Subterranean water</u>			
<p>No subterranean water is expected</p>			
<u>Excavation for working space in rock</u>			
<p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation fro working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be.</p>			
<u>Carting away of excavated material</u>			
<p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>			
Carried Forward			R
<p>Section No. 2 Main Residence Bill No. 1 Earthworks</p>			

Brought Forward				R
<u>Filling</u>				
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.				
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>				
<u>Excavations etc.</u>				
<u>Excavation in earth not exceeding 2m deep</u>				
2/1/1	Trenches	m3	44	
2/1/2	Reduce levels under floors	m3	13	
2/1/3	Edge thickening	m3	2	
<u>Extra over trench and hole excavations in earth for excavation in</u>				
2/1/4	Soft rock	m3	6	
2/1/5	Hard rock	m3	3	
<u>Extra over all excavations for carting away</u>				
2/1/6	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	42	
<u>Risk of collapse of excavations</u>				
2/1/7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	124	
<u>Keeping excavations free of water</u>				
2/1/8	Keeping excavations free of all water other than subterranean water		Item	
<u>Filling etc.</u>				
Carried Forward				R
Section No. 2 Main Residence Bill No. 1 Earthworks				

Brought Forward

R

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density.

2/1/9 Backfilling to trenches, holes, etc. m3 17

Imported G5 material obtained from commercial sources supplied by the contractor, compacted to 97% Mod AASHTO density

2/1/10 Under floors, steps, pavings, etc. m3 13

Compaction of surfaces

2/1/11 Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MOD AASHTO m2 82

2/1/12 Compaction of ground surface under strip footings, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MOD AASHTO m2 44

Prescribed density tests on filling

2/1/13 "Modified AASHTO Density" test No 5

SOIL POISONING

Approved brand of anti-termite soil poison applied by a registered Pest Control company and guaranteed against termite infestation for ten years

2/1/14 Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. filling in furrows and ramming m2 82

2/1/15 To bottoms and sides of trenches, etc. m2 168

Carried Forward to Summary of Section No. 2

R

Section No. 2
Main Residence
Bill No. 1
Earthworks

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>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 Engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Engineer. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Description of formwork shall be 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</p>			
<p>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.</p>			
Carried Forward			R
<p>Section No. 2 Main Residence Bill No. 2 Concrete, Formwork & Reinforcement</p>			

Brought Forward			R
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer 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"			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/19mm concrete</u>			
2/2/1	Surface blinding under strip footings	m3	2
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>30MPa/19mm concrete</u>			
2/2/2	Strip footings	m3	10
2/2/3	Surface beds	m3	8
2/2/4	Edge thickening	m3	2
2/2/5	Infill to piers	m3	0.1
<u>TEST CUBES</u>			
2/2/6	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).	No	3
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
2/2/7	Surface beds, slabs, etc,	m2	82
<u>FORMWORK</u>			
<u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u>			
Carried Forward			R
Section No. 2 Main Residence Bill No. 2 Concrete, Formwork & Reinforcement			

Brought Forward

R

Rough formwork to sides

2/2/8	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	5
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MOVEMENT JOINTS ETC**Isolation joints with 10mm thick jointex or similar approved compressable joint filler with 10x10mm tear-off strip**

2/2/9	Not exceeding 300mm high to edges of surface beds	m	94
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Saw cut joints

2/2/10	3 x 30mm Saw cut joints in top of concrete	m	55
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REINFORCEMENT (PROVISIONAL)**High tensile steel reinforcement to structural concrete work**

2/2/11	Bars of various diameters	t	0.60
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Fabric reinforcement

2/2/12	Type ref. 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	82
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Carried Forward to Summary of Section No. 2

R

Section No. 2
Main Residence
Bill No. 2
Concrete, Formwork & Reinforcement

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SAMPLES</u>			
	Samples of masonry building units to be provided before construction commences			
	<u>SIZES IN DESCRIPTIONS</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>BLOCKWORK</u>			
	<u>Concrete masonry units</u>			
	Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 14Mpa			
	<u>Wall ties for blockwork</u>			
	Wall ties shall be polypropylene ties 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 in 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.			
	Carried Forward		R	
	Section No. 2 Main Residence Bill No. 3 Masonry			

Brought Forward			R
<u>Blockwork</u>			
Blockwork shall comply with SANS 10400:2010 Part K			
Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpend of the bottom course of the external skin of hollow walls shall be left open as a weep hole.			
<u>Standard complementary blocks</u>			
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.			
<u>Decorative Blocks</u>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<u>BRICKWORK</u>			
<u>FOUNDATIONS (PROVISIONAL)</u>			
<u>Brickwork of NFX bricks in class II mortar</u>			
2/3/1	Piers	m3	0.1
2/3/2	One brick wall	m2	32
<u>BLOCKWORK</u>			
<u>SUPERSTRUCTURE</u>			
<u>Blockwork in class two mortar size 390 x 200mm of 3.5MPa strength</u>			
2/3/3	Piers	m3	1
2/3/4	90mm Walls	m2	28
2/3/5	90mm Walls in beamfilling	m2	7
2/3/6	190mm Walls	m2	187
Carried Forward			R
Section No. 2 Main Residence Bill No. 3 Masonry			

Brought Forward

R

2/3/7	380mm Hollow walls of two 190mm skins including wall ties	m2	2
<u>BLOCKWORK SUNDRIES</u>			
<u>Precast concrete fabricated lintels</u>			
2/3/8	90 x 90mm Lintels in lengths not exceeding 3m	m	4
2/3/9	140 x 90mm Lintels in lengths not exceeding 3m	m	22
<u>Mortar filling including necessary formwork to soffits</u>			
2/3/10	To single hollow core of 190mm hollow block	No	126
<u>2.5mm Galvanised reinforcement</u>			
2/3/11	80mm Wide reinforcement built in horizontally	m	44
2/3/12	155mm Wide reinforcement built in horizontally	m	199
<u>Wall bonding ties</u>			
2/3/13	70mm Wide galvanised expanded steel wall bonding tie 600mm long built horizontally into blockwork at wall intersections, construction joints, etc	No	20
<u>Galvanised hoop iron cramps, ties, etc</u>			
2/3/14	30 x 1.6mm Roof tie 1.5m long with one end cast into concrete and other end fixed to timber	No	42
2/3/15	30 x 1,2mm HDG mild steel straps drilled into existing blockwork and built in every third course	m	198
2/3/16	Hoop Iron Built into concrete core	m	14
<u>Air bricks etc</u>			
2/3/17	Set of two 222 x 152mm clay vermin proof air bricks	No	14

Carried Forward to Summary of Section No. 2

R

Section No. 2
Main Residence
Bill No. 3
Masonry

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Waterproofing shall be laid under a 10 year written guarantee for site workmanship and watertightness and to be laid to even falls to outlets etc. Descriptions of sheet or membrane waterproofing shall be deemed to include for additional labour to turn-ups and turn downs			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>			
2/4/1	In walls	m2	14	
	<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
2/4/2	Under surface beds	m2	82	
	<u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u>			
	<u>'RFK Sika Chemflex' waterproofing slurry, with and including 'Sika' membrane apply as per manufacturer's strict instruction</u>			
2/4/3	On shower floors	m2	2	
2/4/4	On Walls	m2	9	
	<u>JOINT SEALANTS ETC</u>			
	Carried Forward		R	
	Section No. 2 Main Residence Bill No. 4 Waterproofing			

Brought Forward			R
<u>Two part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>			
2/4/5	10 x 10mm In isolation joints in floors including raking out expansion joint filler as necessary	m	94
2/4/6	3 x 30mm Saw cut joints in top of concrete	m	55
Carried Forward to Summary of Section No. 2			R
Section No. 2 Main Residence Bill No. 4 Waterproofing			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 5</u>			
	<u>ROOF COVERINGS, ETC.</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>TILES</u>			
	<u>"Marley Building Systems" or other equal approved, Antique Terracotta Double Roman concrete roof tiles (Code: TDRANTC), size 420 x 332mm laid in straight bond with minimum 100mm headlap, fixed at a pitch of 22 degrees with two rows of tiles at ridge, eaves and verges for the full overhang, nailed with non-corrosive nails and /or fixed with suitable non-corrosive clips as required to and including 38 x 38mm sawn softwood battens at maximum 300mm centres over and including an underlay of multi-layered reinforced aluminium foil faced one side sheeting in accordance with SANS 1381-4 with a mass of not less than 218/m2 and a Class I fire rating in accordance with SANS 0177-3 fixed under battens with minimum laps of 150mm</u>			
2/5/1	Roof covering with pitches not exceeding 25 degrees	m2	136	
2/5/2	Close cut and fitted valleys including raking cutting on both sides (valley gutters elsewhere)	m	9	
2/5/3	Extra on roof covering for 38 x 50mm sawn softwood tilting fillets	m	39	
2/5/4	Ridges of tiles to match roofing tiles, bedded and pointed in 1:3 tinted cement mortar, including 300mm wide strip of 375 micron embossed dampproof course in accordance with SANS 952 Type B underlay	m	19	
	<u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u>			
	Carried Forward		R	
	Section No. 2 Main Residence Bill No. 5 Roof Coverings			

Brought Forward			R
<u>0,6mm sheet aluminium</u>			
2/5/5	Linings to valleys with riveted and sealed joints	m	5
<u>ROOF AND WALL INSULATION</u>			
<u>Sisalation 430 aluminium foil wrap insulation</u>			
2/5/6	Insulation laid taut over trusses or rafters (at approx. 350mm centres) and fixed under purlins concurrent with roof covering including galvanised steel straining wires at 500mm centres.	m2	107
Carried Forward to Summary of Section No. 2			R
Section No. 2 Main Residence Bill No. 5 Roof Coverings			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>CARPENTRY AND JOINERY</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the Architect and/or taken on site before design or fabrication commences			
	<u>PRE-TREATMENT OF TIMBER</u>			
	This service falls within the areas defined in the National Building Regulations for treatment of timber against insect infestation / insect pest affecting softwood fixed permanently in all buildings.			
	The regulations require that the timber be treated. Tenderer's are to make allowance in there rates.			
	<u>PREFABRICATED ROOF TRUSSES</u>			
	All timber roof trusses including nail-plated trusses and bolted trusses with lapped members the Design, manufacture and erection of timber trusses.			
	The tenderer is to allow in his rates for an Registered Engineer nomiated by the Roof truss supplier to issue the TR1 and TR2 certificate for the design and installation of releated works to the Principle Agent.			
	Prices for the roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bacing and runners where required all over hanging ends to be wrot faced all round			
	<u>PREFABRICATED TIMBER ROOF TRUSSES, ETC</u>			
	Carried Forward		R	
	Section No. 2 Main Residence Bill No. 6 Carpentry and Joinery			

Brought Forward			R
<u>Plate nailed timber roof truss construction</u>			
The following is applicable in respect of timber roof trusses: Trusses are at 750mm centres for concrete roof tiles on 50 x 76mm purlins. Ceilings are plaster board sheeting on softwood branderling			
<u>Sawn softwood</u>			
2/6/1	38 x 114mm Wall plates including bedding level in cement mortar	m	42
2/6/2	Design, manufacture and deliver on site, plate nailed roof truss construction to amakhosi house, size 5 600 x 4 000mm overall on plan consisting of eight double pitched trusses, each truss 5 600 x 1 589mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	1.00
2/6/3	Design, manufacture and deliver on site, plate nailed roof truss construction to amakhosi house, size 14 000 x 6 600mm overall on plan consisting of twenty double pitched trusses, each truss 14 000 x 1 589mm high overall with 600mm eaves overhang projecting both sides, including all necessary purlins, runners, bracing and cross bracing (wall plates elsewhere)	No	1.00
2/6/4	Take delivery, temporary store, hoist in position and erect plate nailed timber roof trusses, purlins, gangboarding, temporary and permanent bracing, etc (measured on slope of roof)	m2	136
<u>EAVES, VERGES, ETC</u>			
<u>Everite Nutec fibre-cement high density flat sheets</u>			
2/6/5	15 x 225mm Fascias boards including galvanised steel H-profile jointing strips	m	31
2/6/6	80 x 275mm Angle section barge boards including galvanised steel H-profile jointing strips	m	21
<u>SKIRTING</u>			
<u>Wrought meranti</u>			
2/6/7	75mm high Skirtings	m	97
2/6/8	19mm Quadrant	m	97
Carried Forward			R
Section No. 2 Main Residence Bill No. 6 Carpentry and Joinery			

Brought Forward

R

DOORS ETC**"Swartland" or other equal and approved, hardwood meranti doors**

2/6/9 40mm Framed, ledged and braced batten door 813 x 1938mm high of top rail and stiles, middle ledge, braes and bottom ledge, filled in with tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint on drawing No: 035_SP_1003 attached to these provisional bill of quantities. (Door Reference: D3) No 1

2/6/10 44mm Sash double door 1511 x 2100mm high with rebated meeting stiles, each leaf of 100mm wide top rail and stiles and 150mm wide mid rail and 150mm wide bottom rail, in single pane, rebated all round including 6mm glazing and glazing beads on drawing No: 035_SP_1003 attached to these provisional bill of quantities (Door Reference: W1) No 1

"TDM" or other equal and approved, semi-solid flush doors with 3,2mm plain hardboard covering on both sides

2/6/11 40mm Door 813 x 2032mm high on drawing No: 035_SP_1003 attached to these provisional bill of quantities (Door reference: D1 & D2) No 6

FRAMED FRAMES ETC**Wrought meranti**

2/6/12 108 x 44mm Framed frames with 12mm x 12mm shadowline on both sides of timber, tenderers are referred to drawing No: 035_SP_1003 attached to these provisional bill of quantities m 36

BUDGETARY ALLOWANCES

The following budgetary allowances are for work to be executed either by the contractor or any nominated / selected sub-contractor as instructed by the Principal Agent and priced at bill rates to be agreed in terms of the contract Tenderers are to allow in their overall Preliminaries will be entertained should this work proceed. The Employer reserves the right to execute this work in part or in whole or omit the entire scope.

Carried Forward

R

Section No. 2
Main Residence
Bill No. 6
Carpentry and Joinery

Brought Forward

R

'Precision Doors' or other equally approved

2/6/13 Provide the sum of R19,170.00 (Nineteen Thousand One Hundred and Seventy Rand) for Garage Doors

Item

2/6/14 Provide the sum of R 2 500.00 (Two Thousand Five Hundred Rand) for palmets etc

Item

Carried Forward to Summary of Section No. 2

R

Section No. 2
Main Residence
Bill No. 6
Carpentry and Joinery

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>CEILINGS, PARTITIONS & ACCESS FLOORING</u>			
<u>PREAMBLES</u>			
The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
<u>SUPPLEMENTARY PREAMBLES</u>			
Openings in ceilings for light fittings etc. are to include for additional suspension as required			
<u>Ceilings</u>			
Unless otherwise described ceilings shall be deemed to be horizontal			
<u>Fixings</u>			
Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork or concrete.			
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 500mm centres, and where described as "bolted", the bolts have been given elsewhere			
Carried Forward			R
Section No. 2 Main Residence Bill No. 7 Ceilings, Partitions and Access Flooring			

Brought Forward			R
<u>Bulkheads</u>			
Bulkheads are defined as those portions of ceilings which are stepped down from the general ceiling level in a particular room or area and which generally occur along the perimeter. Their purpose is either to conceal services or to create architectural features.			
Bulkheads have only been described as such where they conform to the above definition and where the horizontal or vertical dimensions do not exceed 900mm such portions of ceilings have been included in the appropriate general items of ceilings.			
Unless otherwise described bulkheads shall be deemed to be horizontal along the length.			
Circular bulkheads shall be given separately.			
<u>Steel components</u>			
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121			
<u>Fire Proofing</u>			
Allow for fire stopping material where services pass through fire walls, details as per Fire Consultant. All combustible material to be fire proofed, as per Fire Consultant's specifications.			
<u>NAILED-UP CEILINGS</u>			
<u>6,4mm "Rhino" gypsum plasterboard with taped joints and with the whole surface skimmed with "Rhinolite" plaster</u>			
2/7/1	Ceilings including 38 x 38mm sawn softwood brander at 400mm centres in one direction	m2	82
2/7/2	Extra over ceiling for 600 x 600mm trap door formed of 38 x 38mm sawn softwood framing and cross brander covered with ceiling board	No	1
<u>4mm "Everite Nutec" fibre cement board with taped joints and with the whole surface skimmed with "Rhinolite" plaster</u>			
2/7/3	Sloping ceilings including 38 x 38mm sawn softwood brander at 350mm centres	m2	11
Carried Forward			R
Section No. 2 Main Residence Bill No. 7 Ceilings, Partitions and Access Flooring			

Brought Forward		R
2/7/4	<u>Gypsum plasterboard cornices</u> 75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders	114
Carried Forward to Summary of Section No. 2		R
Section No. 2 Main Residence Bill No. 7 Ceilings, Partitions and Access Flooring		

Item No		Unit	Quantity	Rate	Amount
	<u>BILL NO. 8</u>				
	<u>IRONMONGERY</u>				
	<u>PREAMBLES</u>				
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Standard Preambles to All Trades' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.				
	<u>SUPPLEMENTARY PREAMBLES</u>				
	<u>Proprietary items</u>				
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items				
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered				
	On request returnable samples are to be provided to the principal agent for consideration				
	The following locks are to be suitable for master key operation				
	<u>IRONMONGERY</u>				
	<u>HINGES, BOLTS, ETC</u>				
	<u>Manufactured by "Union" or other approved</u>				
2/8/1	8352-100SS/2 100 x 88mm Brush Bearing Butt Hinges	No	24		
	<u>LOCKSETS, ETC.:</u>				
2/8/2	"Assa Abloy" or other approved L-2215-78SS/R mortice roller latch deadlock SS	No	8		
	Carried Forward			R	
	Section No. 2 Main Residence Bill No. 8 Ironmongery				

	Brought Forward			R
2/8/3	"Assa Abloy" or other approved bathroom WC dead lock (Code: 21314 - 76)	No	2	
	<u>HANDLES</u>			
2/8/4	"Assa Abloy" or other approved AL684 - 13AS Bishop on 178 x 40mm backplate	Pairs	8.0	
	<u>SUNDRIES</u>			
	<u>Manufactured by "Union" or other approved</u>			
2/8/5	Stainless steel floor stop, code (DDS-SS-017)	No	8	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Main Residence Bill No. 8 Ironmongery				

Item No	Quantity	Rate	Amount
<u>BILL NO. 9</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Model Preambles To All Trades 2008", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Aluminium windows</u>			
<u>Finish</u>			
Powdercoated Aluminium, to SANS 1274:2005, SANS 1578:2006, SANS 1796:2010 & SANS 10322:2005 specs.			
<u>Glazing</u>			
Complete system shall meet or exceed the requirements of AAAMSA and the design loading determination by SABS 0160 for this application.			
Glazing shall be executed strictly in conformance with glass manufacturer's recommendations and all in accordance with the national building regulations part N, SABS 0137, SABS 10400, SABS 1263, and AAAMSA selection guide for safety glazing materials in terms of VC 9003. Glazing to comply with SANS 10137, 10400 & 1263-1:2013. All necessary AAAMSA Glazing, glass and frames test certificates to be provided by the contractor. All glass edges must be polished smooth.			
Sections for glazing includes Intruderprufe low E and Solarvue XHL low E for clear glass and frosted glass.			
<u>ALUMINIUM WINDOWS</u>			
Carried Forward			
Section No. 2 Main Residence Bill No. 9 Metalwork			
		R	

Brought Forward			R
<u>Aluminium window complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete</u>			
2/9/1	Purpose made aluminium window with opening panels, overall size 633 x 754mm high, Tenderers are to refered to Architects Window Schedule type W6 on Drawing No: 035_SP_1003	No	1
2/9/2	Purpose made aluminium window with opening panels, overall size 1122 x 754mm high, Tenderers are to refered to Architects Window Schedule type W4 on Drawing No: 035_SP_1003	No	1
2/9/3	Purpose made aluminium window with opening panels, overall size 1611 x 1049mm high, Tenderers are to refered to Architects Window Schedule type W5 on Drawing No: 035_SP_1003	No	1
2/9/4	Purpose made aluminium window with opening panels, overall size 1611 x 1345mm high, Tenderers are to refered to Architects Window Schedule type W3 on Drawing No: 035_SP_1003	No	3
2/9/5	Purpose made aluminium window with opening panels, overall size 1122 x 1954mm high, Tenderers are to refered to Architects Window Schedule type W2 on Drawing No: 035_SP_1003	No	2
2/9/6	Purpose made aluminium window with opening panels, overall size 2100 x 1640mm high, Tenderers are to refered to Architects Window Schedule type W7 on Drawing No: 035_SP_1003	No	1
<u>ALUMINIUM SHOWER DOORS</u>			
<u>Aluminium shower door complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete.</u>			
2/9/7	Aluminium shower door overall size 1000mm wide x 2100mm. Tenderers are referred to door schedule, type F on drawing No. 035_SP_1003 attached to these provisional bill of quantities.	No	1
Carried Forward to Summary of Section No. 2			R
Section No. 2 Main Residence Bill No. 9 Metalwork			

Item No	Quantity	Rate	Amount
<u>BILL NO. 10</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Method</u>			
<p>The method to be used shall be either the monolithic method or the bonded method</p>			
<u>Preparation</u>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.</p>			
<u>Mix</u>			
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p>			
Carried Forward			R
<p>Section No. 2 Main Residence Bill No. 10 Plastering</p>			

Brought Forward

R

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9.5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1.5 times its width.

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels.

Bonded granolithic shall be applied to the slab after applying a 1:1 sand and cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels.

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated.

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.

Note:

It is recommended that all plaster and screed mixes are sourced externally from a "Ready Mixed" supplier and apply to clean and sound surfaces as per the manufacturers specification instructions

Carried Forward

R

Section No. 2
Main Residence
Bill No. 10
Plastering

Brought Forward

R

SCREEDS**Screeds wood floated, on concrete**

2/10/1	30mm Thick on floors and landings	m2	81
2/10/2	Average 30mm thick on floors with upper surface to falls	m2	1

GRANOLITHIC**Untinted granolithic, on concrete****INTERNAL PLASTER****Cement plaster steel trowelled, on brickwork**

2/10/3	On walls	m2	242
2/10/4	On narrow widths	m2	12

EXTERNAL PLASTER**Cement plaster wood floated, on brickwork**

2/10/5	On walls	m2	123
2/10/6	On narrow widths	m2	6

Carried Forward to Summary of Section No. 2

R

Section No. 2
Main Residence
Bill No. 10
Plastering

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	All Prime Cost amounts exclude Value Added Tax			
	Unless described as "fixed with adhesive to plaster (plaster measured elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	All tiled areas are measured net. Tenderers are to allow for 5mm tile spacers including polysulphide expansion joint in tiling at 5m centres in both directions. Required wastage allowance to be included in each individual rate hereafter:			
	All wall tiling to be fixed to plaster (plaster measured elsewhere) with the appropriate tile adhesive all in strict accordance with the recommendations of Tal and good Trade practice			
	<u>WALL TILING</u>			
	<u>Porcelain tile (PC R 150/m2) excluding VAT fixed with approved adhesive, bonding agent and light grey grout</u>			
2/11/1	On walls	m2	47	
2/11/2	On narrow widths	m2	1	
	<u>FLOOR TILING</u>			
	Carried Forward		R	
	Section No. 2 Main Residence Bill No. 11 Tiling			

Brought Forward

R

Porcelain tile (PC R 150/m2) excluding VAT fixed with approved adhesive, bonding agent and light grey grout

2/11/3 On floors and landings m2 81

Mosaic floor tiles (P.C Amount R 900.00/m2) excluding VAT fixed with approved adhesive, bonding agent and light grey grout

2/11/4 On shower floors m2 1

SUNDRIES

"M-trim" or other approved:

2/11/5 Type ATC300 edgetrim m 18

Carried Forward to Summary of Section No. 2

R

Section No. 2
Main Residence
Bill No. 11
Tiling

Item No		Quantity	Rate	Amount
	<u>BILL NO. 12</u>			
	<u>PLUMBING AND DRAINAGE</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>As-built drawings</u>			
	Where required, the contractor shall prepare an updated set of as-built drawings. At completion of the contract 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)			
	<u>RAINWATER DISPOSAL</u>			
	<u>"Ogee profile aluminium gutter" or other approved seamless gutter with Colourtech G4 finish in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other approved silicon mastic sealer. Gutters are to be hung with nailed fixed internal aluminium hangers at 600mm centres to fibre cement fascia boards (Fibre cement fascia boards elsewhere measured)</u>			
2/12/1	125 x 85 x 0.8mm Ogee profile gutter	m	33	
2/12/2	Extra over gutter for stopped end	No	6	
2/12/3	Extra over for outlet	No	3	
	<u>0.8mm Fluted aluminium down pipes with Colourtech G4 finish in marble white</u>			
	<u>"Marley" or other approved uPVC downpipes</u>			
2/12/4	100 x 75mm Diameter rainwater pipe	m	18	
2/12/5	Extra on rainwater pipe for bend	No	12	
	Carried Forward			
	Section No. 2			
	Main Residence			
	Bill No. 12			
	Plumbing and Drainage			
			R	

	Brought Forward			R
2/12/6	Extra on rainwater pipe for shoe	No	6	
Carried Forward to Summary of Section No. 2				R
Section No. 2 Main Residence Bill No. 12 Plumbing and Drainage				

	Brought Forward			R
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint</u>			
2/13/4	Fascias and barge boards not exceeding 300mm girth, including priming metal jointing strips	m	52	
	<u>ON WOOD SURFACES</u>			
	<u>'DULUX' or other equal and approved</u>			
	<u>Two coats oil wood primer</u>			
2/13/5	Backs of frames, linings, etc. not exceeding 300mm wide	m	133	
	<u>Three coats superior quality clear gloss varnish</u>			
2/13/6	Doors	m2	36	
2/13/7	Door frames	m2	18	
2/13/8	Skirtings, rails, etc. not exceeding 300mm girth	m	97	
Carried Forward to Summary of Section No. 2				R
Section No. 2				
Main Residence				
Bill No. 13				
Paintwork				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 14</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.			
	Prime cost amounts and provisional sums are net.			
	The Contractor must note that attendance includes the provision of hoisting and access facilities for a sub-contractor.			
	The Contractors profit and attendance shall include for the storage of such equipment and materials.			
	The Contractor must ensure that the capacities of his hoisting equipment is sufficient to deal with the masses and the quantities of the items hoisted.			
	Provide the necessary personnel to operate such hoisting and access equipment.			
	Prime cost amounts include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists.			
	<u>BUILT IN CUPBOARDS</u>			
2/14/1	Provide the amount of R 55 000.00 (Fifty Five Thousand Rand) for Built-in Cupboards	Item		55 000.00
2/14/2	Profit	Item		
2/14/3	Attendance	Item		
	<u>PLUMBING & DRAINAGE</u>			
2/14/4	Provide the amount of R 66 000.00 (Sixty Six Thousand Rand) for Plumbing & Drainage	Item		66 000.00
	Carried Forward		R	
	Section No. 2 Main Residence Bill No. 14 Provisional Sums			

Brought Forward			R	
2/14/5	Profit	Item		
2/14/6	Attendance	Item		
<u>BATHROOM ACCESSORIES</u>				
2/14/7	Provide the sum of R 8 000.00 (Eight Thousand Rand) for Bathroom Accessories	Item		8 000.00
2/14/8	Profit	Item		
2/14/9	Attendance	Item		
<u>ELECTRICAL INSTALLATION</u>				
2/14/10	Provide the amount of R 95 000.00 (Ninety Five Thousand Rand) for Electrical Installation	Item		95 000.00
2/14/11	Profit	Item		
2/14/12	Attendance	Item		
<u>CARPORT</u>				
2/14/13	Provide the amount of R 20 000.00 (Twenty Thousand Rand) for Carport	Item		20 000.00
2/14/14	Profit	Item		
2/14/15	Attendance	Item		
Carried Forward to Summary of Section No. 2			R	
Section No. 2				
Main Residence				
Bill No. 14				
Provisional Sums				

Section No. 2

Main Residence

SECTION SUMMARY - Main Residence

Bill No		Page No	Amount	
2/1	Earthworks	45		
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2/4	Waterproofing	53		
2/5	Roof Coverings	55		
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2/14	Provisional Sums	77		
Carried to Final Summary			R	
Section No. 2 Main Residence				

Item No	Quantity	Rate	Amount
<u>SECTION NO.3</u>			
<u>BILL NO. 1</u>			
<u>EARTHWORKS (PROVISIONAL)</u>			
<u>PREAMBLES</u>			
<p>The description given in the various items below are not necessary full and complete and reference must be made to the 'Model Preambles to All Trades 2008' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Nature of ground</u>			
<p>The nature of the ground is assume to be gravel, therefore "earth", but possibly interspread with "soft rock" or "hard rock"</p>			
<u>Subterranean water</u>			
<p>No subterranean water is expected</p>			
<u>Excavation for working space in rock</u>			
<p>Notwithstanding clause 11 page 8 of the Standard System of Measuring Building Work, excavation fro working space in rock will be measured in cubic metres to the extent executed and given as "extra over" bulk excavation or trench and hole excavation as the case may be.</p>			
<u>Carting away of excavated material</u>			
<p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p>			
Carried Forward			R
<p>Section No. 3 Rondavel Bill No. 1 Earthworks</p>			

Brought Forward			R
<u>Filling</u>			
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.			
<u>Testing</u>			
Prices for filling are to include for all necessary density tests in accordance with SABS 1200D			
<u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u>			
<u>Excavations etc</u>			
<u>Excavation in earth not exceeding 2m deep</u>			
3/1/1	Trenches	m3	17
3/1/2	Reduce levels under floors	m3	4
3/1/3	Edge thickening	m3	1
<u>Extra over trench and hole excavations in earth for excavation in</u>			
3/1/4	Soft rock	m3	2
3/1/5	Hard rock	m3	1
<u>Extra over all excavations for carting away</u>			
3/1/6	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	14
<u>Risk of collapse of excavations</u>			
3/1/7	Sides of trench and hole excavations not exceeding 1,5m deep	m2	48
<u>Keeping excavations free of water</u>			
3/1/8	Keeping excavations free of all water other than subterranean water	Item	
<u>Filling etc</u>			
Carried Forward			R
Section No. 3 Rondavel Bill No. 1 Earthworks			

Brought Forward

R

Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density.

3/1/9 Backfilling to trenches, holes, etc. m3 7

Imported G5 material obtained from commercial sources supplied by the contractor, compacted to 97% Mod AASHTO density

3/1/10 Under floors, steps, pavings, etc. m3 4

Compaction of surfaces

3/1/11 Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MOD AASHTO m2 23

3/1/12 Compaction of ground surface under strip footings, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MOD AASHTO m2 16

Prescribed density tests on filling

3/1/13 "Modified AASHTO Density" test No 2

SOIL POISONING

Approved brand of anti-termite soil poison applied by a registered Pest Control company and guaranteed against termite infestation for ten years

3/1/14 Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. filling in furrows and ramming m2 23

3/1/15 To bottoms and sides of trenches, etc. m2 64

Carried Forward to Summary of Section No. 3

R

Section No. 3
Rondavel
Bill No. 1
Earthworks

Item No	Quantity	Rate	Amount
<u>BILL NO. 2</u>			
<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Cost of tests</u>			
<p>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 Engineer. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the Engineer. (Test cubes are measured separately)</p>			
<u>Formwork</u>			
<p>Description of formwork shall be 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</p>			
<p>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.</p>			
Carried Forward			R
<p>Section No. 3 Rondavel Bill No. 2 Concrete, Formwork & Reinforcement</p>			

Brought Forward			R
Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer 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"			
<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>15MPa/19mm concrete</u>			
3/2/1	Surface blinding under footings and bases	m3	1
<u>REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
<u>30MPa/19mm concrete</u>			
3/2/2	Strip footings	m3	4
3/2/3	Surface beds	m3	2
3/2/4	Edge thickening	m3	1
<u>TEST CUBES</u>			
3/2/5	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).	No	2.00
<u>CONCRETE SUNDRIES</u>			
<u>Finishing top surfaces of concrete smooth with a wood float</u>			
3/2/6	Surface beds, slabs, etc,	m2	23
<u>MOVEMENT JOINTS ETC</u>			
<u>Isolation joints with 10mm thick jointex or similar approved compressable joint filler with 10x10mm tear-off strip</u>			
3/2/7	Not exceeding 300mm high to edges of surface beds	m	25
Carried Forward			R
Section No. 3 Rondavel Bill No. 2 Concrete, Formwork & Reinforcement			

	Brought Forward			R
	<u>Saw cut joints</u>			
3/2/8	3 x 30mm Saw cut joints in top of concrete	m	15	
	<u>Fabric reinforcement</u>			
3/2/9	Type ref. 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	23	
Carried Forward to Summary of Section No. 3				R
Section No. 3				
Rondavel				
Bill No. 2				
Concrete, Formwork & Reinforcement				

Item No		Quantity	Rate	Amount
	<u>BILL NO. 3</u>			
	<u>MASONRY</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>SAMPLES</u>			
	Samples of masonry building units to be provided before construction commences			
	<u>SIZES IN DESCRIPTIONS</u>			
	Where sizes in descriptions are given in brick units, "one brick" shall represent the length and "half brick" the width of a brick			
	<u>BLOCKWORK</u>			
	<u>Concrete masonry units</u>			
	Blocks are to be either solid or hollow modular dense concrete masonry units having a compressive strength of 14Mpa			
	<u>Wall ties for blockwork</u>			
	Wall ties shall be polypropylene ties 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 in 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.			
	Carried Forward		R	
	Section No. 3 Rondavel Bill No. 3 Masonry			

Brought Forward			R
<u>Blockwork</u>			
Blockwork shall comply with SANS 10400:2010 Part K			
Surfaces to be plastered shall have joints raked out to a depth of at least 10mm to provide a key. Cavities of hollow walls shall be kept free of mortar droppings or other undesirable matter. Every second perpendicular of the bottom course of the external skin of hollow walls shall be left open as a weep hole.			
<u>Standard complementary blocks</u>			
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.			
<u>Decorative Blocks</u>			
Blocks shall be of approved manufacture, sound, well burnt or cured and uniform and true in size, shape and colour			
<u>BRICKWORK</u>			
<u>FOUNDATIONS (PROVISIONAL)</u>			
<u>Brickwork of NFX bricks in class II mortar</u>			
3/3/1	One Brick Walls	m2	14
<u>BLOCKWORK</u>			
<u>SUPERSTRUCTURE</u>			
<u>Blockwork in class two mortar size 390 x 200mm of 3.5MPa strength</u>			
3/3/2	90mm Walls	m2	2
3/3/3	90mm Walls in beamfilling	m2	4
3/3/4	190mm Walls	m2	24
3/3/5	190mm Walls circular on plan	m2	24
<u>BLOCKWORK SUNDRIES</u>			
Carried Forward			R
Section No. 3 Rondavel Bill No. 3 Masonry			

Brought Forward

R

Precast concrete fabricated lintels

3/3/6	140 x 90mm Lintels in lengths not exceeding 3m	m	10
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Mortar filling including necessary formwork to soffits

3/3/7	To single hollow core of 190mm hollow block	No	60
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2.5mm Galvanised reinforcement

3/3/8	80mm Wide reinforcement built in horizontally	m	10
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3/3/9	155mm Wide reinforcement built in horizontally	m	113
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Galvanised hoop iron cramps, ties, etc

3/3/10	30 x 1.6mm Roof tie 1.5m long with one end cast into concrete and other end fixed to timber	No	30
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3/3/11	30 x 1,2mm HDG mild steel straps drilled into existing blockwork and built in every third course	m	52
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3/3/12	Hoop Iron Built into concrete core	m	75
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Carried Forward to Summary of Section No. 3

R

Section No. 3
Rondavel
Bill No. 3
Masonry

Item No		Quantity	Rate	Amount
	<u>BILL NO. 4</u>			
	<u>WATERPROOFING</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	Waterproofing shall be laid under a 10 year written guarantee for site workmanship and watertightness and to be laid to even falls to outlets etc. Descriptions of sheet or membrane waterproofing shall be deemed to include for additional labour to turn-ups and turn downs			
	<u>DAMP-PROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed polyethylene damp proof course (SANS 952-1985 type B)</u>			
3/4/1	In walls	m2	5	
	<u>One layer of 250 micron green polyethylene waterproof sheeting (SANS 952-1985 type C) sealed at laps with PVC self-adhesive tape</u>			
3/4/2	Under surface beds	m2	23	
	<u>JOINT SEALANTS ETC</u>			
	<u>Two part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc.</u>			
3/4/3	10 x 10mm In isolation joints in floors including raking out expansion joint filler as necessary	m	25	
3/4/4	3 x 30mm Saw cut joints in top of concrete	m	15	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Rondavel			
	Bill No. 4			
	Waterproofing			

Item No	Quantity	Rate	Amount
<u>BILL NO.5</u>			
<u>CARPENTRY AND JOINERY</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<p>Dimensions in descriptions of trusses are nominal and actual measurements are to be obtained from the Architect and/or taken on site before design or fabrication commences</p>			
<u>PRE-TREATMENT OF TIMBER</u>			
<p>This service falls within the areas defined in the National Building Regulations for treatment of timber against insect infestation / insect pest affecting softwood fixed permanently in all buildings.</p> <p>The regulations require that the timber be treated. Tenderer's are to make allowance in there rates.</p>			
<u>PREFABRICATED ROOF TRUSSES</u>			
<p>All timber roof trusses including nail-plated trusses and bolted trusses with lapped members the Design, manufacture and erection of timber trusses.</p> <p>The tenderer is to allow in his rates for an Registered Engineer nomiated by the Roof truss supplier to issue the TR1 and TR2 certificate for the design and installation of releated works to the Principle Agent.</p> <p>Prices for the roof trusses are to include for all temporary bracing and supports and for all necessary top and bottom chord bracing, wind bacing and runners where required all over hanging ends to be wrot faced all round</p>			
<u>PREFABRICATED TIMBER ROOF TRUSSES, ETC</u>			
Carried Forward			R
<p>Section No. 3 Rondavel Bill No. 5 Carpentry and Joinery</p>			

Brought Forward			R
<u>Plate nailed timber roof truss construction</u>			
The following is applicable in respect of timber roof trusses: Trusses are at 750mm centres for concrete roof tiles on 50 x 76mm purlins. Ceilings are plaster board sheeting on softwood brandering			
<u>Sawn softwood</u>			
3/5/1	38 x 114mm Wall plates including bedding level in cement mortar	m	26
<u>SKIRTING</u>			
<u>Wrought meranti</u>			
3/5/2	19 x 75mm High skirtings	m	2
3/5/3	19 x 75mm High skirtings, circular on plan	m	14
3/5/4		m	2
3/5/5	19mm Quadrant bead, circular on plan	m	14
<u>DOORS ETC</u>			
<u>User note:</u>			
Tenderers are to refer to Architects Door & Window schedule (Drawing No: 035_SP_1003) when pricing the items hereunder			
<u>"Swartland" or other equal and approved, hardwood meranti doors</u>			
3/5/6	40mm Framed, ledged and braced batten door 813 x 1938mm high of top rail and stiles, middle ledge, braes and bottom ledge, filled in with tongued and grooved V-jointed one side vertical boarding with tongued and grooved joints to top rail and stiles and with inner edges of framing and abutting edges of boarding chamfered to form V-joint. (Door Reference: D3)	No	1
<u>"TDM" or other equal and approved, semi-solid flush doors with 3,2mm plain hardboard covering on both sides</u>			
3/5/7	40mm Door 813 x 2032mm high (Door reference: D1 & D2)	No	1
Carried Forward			R
Section No. 3 Rondavel Bill No. 5 Carpentry and Joinery			

Brought Forward

R||

FRAMED FRAMES ETC

Wrought meranti

3/5/8

76 x 38mm Frames, plugged

m

10

Carried Forward to Summary of Section No. 3

R

Section No. 3
Rondavel
Bill No. 5
Carpentry and Joinery

Item No		Quantity	Rate	Amount
	<u>BILL NO. 6</u>			
	<u>IRONMONGERY</u>			
	<u>PREAMBLES</u>			
	The description given in the various items below are not necessary full and complete and reference must be made to the 'Standard Preambles to All Trades' , 'Supplementary Preambles' and 'Supplementary Specifications' to this contract for the full requirement of each schedule item.			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Proprietary items</u>			
	Where applicable the manufacturers' names or product catalogue titles are given in sub-headings preceding the items			
	Prices are to be based on the specific products/articles specified. If tenderers wish to offer alternative products/articles for certain items, these items are to be clearly marked and the alternative specification given with supporting brochures etc clarifying the features of the products/articles offered			
	On request returnable samples are to be provided to the principal agent for consideration			
	The following locks are to be suitable for master key operation			
	<u>IRONMONGERY</u>			
	<u>HINGES, BOLTS, ETC</u>			
	<u>Manufactured by "Union" or other approved</u>			
3/6/1	8352-100SS/2 100 x 88mm Brush Bearing Butt Hinges	No	12	
	<u>LOCKSETS, ETC.:</u>			
3/6/2	"Assa Abloy" or other approved L-2215-78SS/R mortice roller latch deadlock SS	No	4	
	Carried Forward		R	
	Section No. 3 Rondavel Bill No. 6 Ironmongery			

Brought Forward			R
3/6/3	"Assa Abloy" or other approved bathroom WC dead lock (Code: 21314 - 76)	No	1
<u>HANDLES</u>			
3/6/4	"Assa Abloy" or other approved AL684 - 13AS Bishop on 178 x 40mm backplate	Pairs	4.0
<u>SUNDRIES</u>			
<u>Manufactured by "Union" or other approved</u>			
3/6/5	Stainless steel floor stop, code (DDS-SS-017)	No	4
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Rondavel			
Bill No. 6			
Ironmongery			

Item No	Quantity	Rate	Amount
<u>BILL NO. 7</u>			
<u>METALWORK</u>			
<u>PREAMBLES</u>			
The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Aluminium windows</u>			
<u>Finish</u>			
Powdercoated Aluminium, to SANS 1274:2005, SANS 1578:2006, SANS 1796:2010 & SANS 10322:2005 specs.			
<u>Glazing</u>			
Complete system shall meet or exceed the requirements of AAAMSA and the design loading determination by SABS 0160 for this application.			
Glazing shall be executed strictly in conformance with glass manufacturer's recommendations and all in accordance with the national building regulations part N, SABS 0137, SABS 10400, SABS 1263, and AAAMSA selection guide for safety glazing materials in terms of VC 9003. Glazing to comply with SANS 10137, 10400 & 1263-1:2013. All necessary AAAMSA Glazing, glass and frames test certificates to be provided by the contractor. All glass edges must be polished smooth.			
Sections for glazing includes Intruderprufe low E and Solarvue XHL low E for clear glass and frosted glass.			
<u>ALUMINIUM WINDOWS</u>			
Carried Forward			
Section No. 3 Rondavel Bill No. 7 Metalwork			
		R	

Brought Forward			R
<u>Aluminium window complete with subframes, ironmongery, glass, sealing, etc., and fixing to brickwork or concrete</u>			
3/7/1	Purpose made aluminium window with opening panels, overall size 633 x 754mm high, Tenderers are to refered to Architects Window Schedule type W6 on Drawing No: 035_SP_1003	No	1
3/7/2	Purpose made aluminium window with opening panels, overall size 633 x 1049mm high, Tenderers are to refered to Architects Window Schedule type W9 on Drawing No: 035_SP_1003	No	3
3/7/3	Purpose made aluminium window with opening panels, overall size 1122 x 754mm high, Tenderers are to refered to Architects Window Schedule type W4 on Drawing No: 035_SP_1003	No	1
3/7/4	Purpose made aluminium window with opening panels, overall size 1122 x 1049mm high, Tenderers are to refered to Architects Window Schedule type W8 on Drawing No: 035_SP_1003	No	1
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Rondavel			
Bill No. 7			
Metalwork			

Item No	Quantity	Rate	Amount
<u>BILL NO. 8</u>			
<u>PLASTERING</u>			
<u>PREAMBLES</u>			
<p>The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item</p>			
<u>SUPPLEMENTARY PREAMBLES</u>			
<u>Method</u>			
<p>The method to be used shall be either the monolithic method or the bonded method</p>			
<u>Preparation</u>			
<p>For granolithic applied monolithically, the concrete floor shall be swept clean after bleeding of the concrete has ceased and the slab has begun to stiffen; any remaining bleed water shall be removed and the granolithic applied immediately thereafter. For granolithic to be bonded to the floor slab after it has hardened, the slab surface shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. The slab shall then be wetted and kept damp for at least six hours before applying the granolithic.</p>			
<u>Mix</u>			
<p>Granolithic shall attain a compressive strength of at least 41MPa. The coarse aggregate shall comply with SANS 1083 and shall generally be capable of passing a 10mm mesh sieve. Where the thickness of the granolithic exceeds 25mm, the size of the coarse aggregate shall be increased to the maximum size compatible with the thickness of the granolithic.</p>			
Carried Forward			R
<p>Section No. 3 Rondavel Bill No. 8 Plastering</p>			

Brought Forward

R

Panels

Granolithic shall be laid in panels not exceeding 14m² for monolithic finishes, not exceeding 9.5m² for bonded finishes and not exceeding 6m² for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1.5 times its width.

Where possible joints between panels shall be positioned over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with V-joints

Laying

Monolithic granolithic shall be applied to the partially set slab and thoroughly compacted and lightly wood floated to the required levels.

Bonded granolithic shall be applied to the slab after applying a 1:1 sand and cement slurry brushed over the surface and allowed to partially set before applying the granolithic. The granolithic shall be thoroughly compacted and lightly wood floated to the required levels.

After wood floating, the monolithic and bonded granolithic shall remain undisturbed until bleeding has ceased and the surface has stiffened. Any remaining bleed water and laitance shall then be removed and the surface steel trowelled or power floated.

Curing, seasoning and protection

Granolithic shall be covered with clean hessian with waterproof building foil over and kept wet for at least seven days after laying

Colour

Coloured granolithic shall be tinted with an approved colouring pigment mixed into a true and even colour.

Note:

It is recommended that all plaster and screed mixes are sourced externally from a "Ready Mixed" supplier and apply to clean and sound surfaces as per the manufacturers specification instructions

Carried Forward

R

Section No. 3
Rondavel
Bill No. 8
Plastering

Brought Forward			R
<u>SCREEDS</u>			
<u>Screeds wood floated, on concrete</u>			
3/8/1	30mm Thick on floors and landings	m2	51
<u>INTERNAL PLASTER</u>			
<u>Cement plaster steel trowelled, on brickwork</u>			
3/8/2	On walls	m2	68
3/8/3	On narrow widths	m2	6
<u>EXTERNAL PLASTER</u>			
<u>Cement plaster wood floated, on brickwork</u>			
3/8/4	On walls	m2	66
3/8/5	On narrow widths	m2	7
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Rondavel			
Bill No. 8			
Plastering			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 9</u>			
	<u>TILING</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Descriptions</u>			
	All Prime Cost amounts exclude Value Added Tax			
	Unless described as "fixed with adhesive to plaster (plaster measured elsewhere)" descriptions of tiling on brick or concrete walls, columns, etc shall be deemed to include 1:4 cement plaster backing and descriptions of tiling on concrete floors etc shall be deemed to include 1:3 plaster bedding			
	All tiled areas are measured net. Tenderers are to allow for 5mm tile spacers including polysulphide expansion joint in tiling at 5m centres in both directions. Required wastage allowance to be included in each individual rate hereafter:			
	All wall tiling to be fixed to plaster (plaster measured elsewhere) with the appropriate tile adhesive all in strict accordance with the recommendations of Tal and good Trade practice			
	<u>WALL TILING</u>			
	<u>Porcelain tile (PC R 150/m2) excluding VAT fixed with approved adhesive, bonding agent and light grey grout</u>			
3/9/1	On walls	m2	27	
3/9/2	On narrow widths	m2	1	
	<u>FLOOR TILING</u>			
	Carried Forward		R	
	Section No. 3 Rondavel Bill No. 9 Tiling			

Brought Forward			R
	<u>Porcelain tile (PC R 150/m2) excluding VAT fixed with approved adhesive, bonding agent and light grey grout</u>		
3/9/3	On floors and landings	m2	23
	<u>SUNDRIES</u>		
	<u>"M-trim" or other approved:</u>		
3/9/4	Type ATC300 edgetrim	m	17
Carried Forward to Summary of Section No. 3			R
Section No. 3			
Rondavel			
Bill No. 9			
Tiling			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 10</u>			
	<u>PAINTWORK</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>PAINTWORK ETC TO NEW WORK</u>			
	<u>ON INTERNAL FLOATED PLASTER SURFACES</u>			
	<u>"Dulux" or other equal and approved</u>			
	<u>One coat alkali resistant primer and two coats PVA emulsion paint</u>			
3/10/1	Walls	m2	74	
	<u>ON EXTERNAL FLOATED PLASTER SURFACES</u>			
	<u>"Dulux Weatherguard" or other equal approved</u>			
	<u>One coat alkali resistant primer and two coats superior quality acrylic emulsion paint</u>			
3/10/2	Walls	m2	73	
	<u>ON WOOD SURFACES</u>			
	<u>"Dulux" or other equal and approved</u>			
	<u>Two coats oil wood primer</u>			
3/10/3	Back of frames, linings, etc not exceeding 300mm wide	m	24	
	<u>Three coats superior quality clear gloss varnish</u>			
3/10/4	Doors	m2	8	
3/10/5	Door frames	m2	5	
3/10/6	Skirting, rail, et not exceeding 300mm girth	m	14	
	Carried Forward to Summary of Section No. 3			R
	Section No. 3			
	Rondavel			
	Bill No. 10			
	Paintwork			

Item No		Quantity	Rate	Amount
	<u>BILL NO. 11</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.			
	Prime cost amounts and provisional sums are net.			
	The Contractor must note that attendance includes the provision of hoisting and access facilities for a sub-contractor.			
	The Contractors profit and attendance shall include for the storage of such equipment and materials.			
	The Contractor must ensure that the capacities of his hoisting equipment is sufficient to deal with the masses and the quantities of the items hoisted.			
	Provide the necessary personnel to operate such hoisting and access equipment.			
	Prime cost amounts include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists.			
	<u>BUILT IN CUPBOARDS</u>			
3/11/1	Provide the amount of R 5 000.00 (Five Thousand Rand) for Built-in Cupboards	Item		5 000.00
3/11/2	Profit	Item		
3/11/3	Attendance	Item		
	<u>PLUMBING & DRAINAGE</u>			
3/11/4	Provide the amount of R 25 000.00 (Twenty Five Thousand Rand) for Plumbing & Drainage	Item		25 000.00
	Carried Forward		R	
	Section No. 3 Rondavel Bill No. 11 Provisional Sums			

Brought Forward			R	
3/11/5	Profit	Item		
3/11/6	Attendance	Item		
<u>ELECTRICAL INSTALLATION</u>				
3/11/7	Provide the amount of R 26 000.00 (Twenty Six Thousand Rand) for Electrical Installation	Item		26 000.00
3/11/8	Profit	Item		
3/11/9	Attendance	Item		
<u>THATCH ROOF INSTALLATION</u>				
3/11/10	Provide the amount of R 35 000.00 (Thirty Five Thousand Rand) for Thatch Roof Installation	Item		35 000.00
3/11/11	Profit	Item		
3/11/12	Attendance	Item		
Carried Forward to Summary of Section No. 3			R	
Section No. 3				
Rondavel				
Bill No. 11				
Provisional Sums				

[illegible]

Item No		Quantity	Rate	Amount
	<u>SECTION NO.4</u>			
	<u>BILL NO. 1</u>			
	<u>EXTERNAL WORKS (ALL TRADES)</u>			
	<u>PREAMBLES</u>			
	The descriptions given in the various items below are not necessarily full and complete and reference must be made to the "Standard Preambles To All Trades", "Supplementary Preambles" and "Supplementary Specifications" to this contract for the full requirements of each scheduled item			
	<u>SITE CLEARANCE ETC</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>Carting away of excavated material</u>			
	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.			
	<u>Site clearance</u>			
4/1/1	Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth	m2	750	
	<u>BULK EXCAVATION, FILLING, ETC</u>			
	<u>Open face excavation in earth</u>			
4/1/2	Open face excavation over sloping site to reduce levels	m3	300	
4/1/3	Strip average 100mm thick layer of topsoil, stockpile on site and maintain.	m2	3 000	
	<u>Earth filling obtained from the excavations including haulage approximately 2m from perimeter of excavations including compaction</u>			
4/1/4	Over site	m3	300	
	Carried Forward		R	
	Section No. 4 External Works Bill No. 1 External Works			

Brought Forward

R

Extra over bulk excavation in earth for excavation in:

4/1/5	Intermediate material	m3	4
4/1/6	Hard material	m3	3

REMOVAL OF TREES ETC**Cut down and remove trees, grub up roots and fill in holes:**

4/1/7	Tree exceeding 200mm and not exceeding 500mm girth.	No	5
4/1/8	Tree stump exceeding 500mm and not exceeding 1000mm girth.	No	5

SUBSOIL DRAINAGE**HDPE pipes****Slotted HDPE flexible drainage pipes**

4/1/9	110mm HDPE flexible slotted agricultural pipes laid behind retaining walls for a depth not exceeding 3m including 19mm crushed stone encasing 300 x 300mm and "Kaymat" U14 geofabric filter blanket wrapped around encasing with 150mm side and 300mm end laps including stitching.	m	40
4/1/10	Extra over for 110mm capped end.	No	4
4/1/11	Extra over for 110mm bend	No	6
4/1/12	Extra over for 110mm junction.	No	6

STORMWATER DRAINAGE**Class 34 HD uPVC pipes in class C bedding:**

4/1/13	160mm Pipes laid in and including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches not exceeding 1m deep.	m	36
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Carried Forward

R

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External Works
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Brought Forward

R

4/1/14	200mm Pipes laid in and including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches not exceeding 1m deep.	m	35
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Grid inlets for Stormwater:

4/1/15	Build catchpit complete with benching, haunching, etc. size internally 805 x 805mm with one brick sides to a depth not exceeding 1000mm deep including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material, shoring and fitted with 450 x 450 grating (Incladon Code: 032427) and cover slab and frame.	No	5
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Extra over uPVC pipes for fittings:

4/1/16	160mm Reducer	No	4
4/1/17	200mm Reducer	No	4
4/1/18	160mm Bend	No	8
4/1/19	200mm Bend	No	8
4/1/20	160mm Junction	No	7
4/1/21	200mm Junction	No	7
4/1/22	160mm Reducing junction	No	3
4/1/23	200mm Reducing Junction	No	3

Sundries

4/1/24	Head wall size to suit pipe diameter 200mm complete with and including all necessary excavations, backfilling, concrete and reinforcement, splitter block, etc.	No	1
4/1/25	Reno mattresses 3000mm x 1000m long x 250mm deep comprising 19.2mm clean granular stone in filling to bottom of drain to a depth of 250mm; the stone wrapped in Geotextile Bidum A2 geofabric filter blanket	No	2

Carried Forward

R

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External Works
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Brought Forward

R

4/1/26	Allow for testing all the stormwater drains as directed by the Employer or his agents and for re-testing after replacing any defective work to his satisfaction. The contractor is to provide all testing apparatus and labour and is to follow the instructions implicitly.		Item
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SOIL DRAINAGE**Class 34 HD uPVC pipes in class C bedding:**

4/1/27	110mm Pipes laid in and including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches not exceeding 1m deep.	m	39
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4/1/28	110mm Pipes laid in and including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches exceeding 1m and not exceeding 2m deep.	m	4
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Extra over uPVC pipes for fittings

4/1/29	110mm Bend	No	8
4/1/30	110mm Access bend	No	5
4/1/31	110mm End cap	No	6
4/1/32	110mm Junction	No	8
4/1/33	110mm Access junction	No	4

Precast concrete circular manholes (covers elsewhere measured) formed of manhole rings (SABS 1294) including excavation, risk of collapse, working space, backfilling with selected material from the excavations, cart away surplus material, shoring, hoisting in position, step irons, benching and haunching

4/1/34	Precast concrete manhole rings (SABS 1294) size internally 750mm diameter, not exceeding 1m deep internally including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material, shoring, step irons, benching and haunching.	No	3
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Carried Forward

R

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R

Gratings, covers, etc.

4/1/35	630mm Diameter heavy duty precast concrete manhole cover and frame	No	3
4/1/36	Unreinforced concrete encasing to horizontal pipe including the necessary formwork.	m3	0.3

SEPTIC TANK**Excavation other than bulk**

4/1/37	Holes not exceeding 2m	m3	14
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Earth filling supplied by the contractor, compacted to 95% Mod. AASHTO density

4/1/38	Imported G5 material obtained from commercial sources supplied by the contractor, compacted to 97% Mod AASHTO density	m3	1
4/1/39	Compaction of ground surface under bases etc., including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 95% Mod. ASSTO density	m2	7
4/1/40	Risk of collapse of sides of trenches and holes exceeding 1,5m deep	m2	47
4/1/41	Extra over all excavations for loading, carting and dumping surplus excavated material off site to a dumping site to be found by the Contractor (no allowance made for increase in bulk)	m3	11
4/1/42	Allow for keeping excavations free of all water other than subterranean water	Item	
4/1/43	Approved brand of anti-termite soil poison applied by a registered pest control company and guaranteed against termite infestation for ten years bottoms and sides of holes and trenches	m2	7
4/1/44	"Modified AASHTO Density" test	No	1.00

Concrete

Carried Forward

R

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External Works

Brought Forward

R

25Mpa/19mm Reinforced concrete cast against rough formwork

4/1/45	Surface beds on waterproofing	m3	1
4/1/46	Finishing to top surfaces of concrete with smooth wood float	m2	7
4/1/47	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	1.00

Formwork

4/1/48	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	12
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Reinforcement

4/1/49	Type 395 fabric reinforcement in surface beds	m2	7
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Masonry**Brickwork of NFP bricks in class II mortar**

4/1/50	One brick walls	m2	23
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Slip joints between horizontal concrete and brickwork surfaces including cement mortar bedding

4/1/51	Two layers of 3mm thick masonite board not exceeding 300mm wide or high	m	18
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Waterproofing

4/1/52	50 x 50mm Prostruct 530 MGP corner fillet 300mm girth	m	16
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Plastering

4/1/53	Screeds 25mm thick on floors	m2	7
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Plumbing and Drainage**uPVC class 34 pipes in class C bedding**

4/1/54	110mm Diameter pipe cast in walls	m	20
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Carried Forward

R

Section No. 4
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Bill No. 1
External Works

Brought Forward

R

Gratings, covers, etc:

4/1/55	450 x 450mm non drainable manhole cover (SANS 50124) heavy duty class (400KN loading capacity) ductile cast iron manhole cover slab, frame and lid with lifting lugs	No	3
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Sundries

4/1/56	Unreinforced concrete encasing to horizontal pipe including the necessary formwork.	m3	0.1
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Soakaway

4/1/57	Soakaway drain 1000mm wide x 12m long including excavations, backfilling with approved material from excavations and compaction to 95% MOD ASHTO and concrete blinding installed to manufacturers specification	No	1
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4/1/58	Kaytech Quick 4 Infiltrator Chamber (or similar approved)	No	9
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Painting

One coat "Pro-Struct 256" MCL epoxy primer and two coats "Pro-Struct 627" non-slip epoxy enamel coating with silica sand mixture to achieve a total dry film thickness of 500 microns

4/1/59	<u>On cement rendered floors</u>	m2	7
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APRONS AND WALKWAYSEarthworksExcavations etcExcavation in earth not exceeding 2m deep

4/1/60	Reduce levels under floors	m3	8
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Extra over all excavations for carting away

4/1/61	Surplus material from excavations and/or stock piles on site, to a dumping site to be located by the contractor	m3	8
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4/1/62	Keeping excavations free of all water other than subterranean water	Item	
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Carried Forward

R

Section No. 4
External Works
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R

Filling etc**Earth filling supplied by the contractor, compacted to 95% Mod. AASHTO density**

4/1/63	Imported G5 material obtained from commercial sources supplied by the contractor, compacted to 97% Mod AASHTO density	m3	8
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Compaction of surfaces

4/1/64	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MOD AASHTO	m2	82
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Prescribed density tests on filling

4/1/65	"Modified AASHTO Density" test	No	2
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SOIL POISONING**Approved brand of anti-termite soil poison applied by a registered Pest Control company and guaranteed against termite infestation for ten years**

4/1/66	Under floors, etc. including forming and poisoning shallow furrows against foundation walls, etc. filling in furrows and ramming	m2	82
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REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**30MPa/19mm concrete**

4/1/67	Surface beds laid to fall	m3	8
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TEST CUBES

4/1/68	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).	No	2.00
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CONCRETE SUNDRIES**Finishing top surfaces of concrete smooth with a wood float**

4/1/69	Surface beds, slabs, etc,	m2	82
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Carried Forward

R

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External Works
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External Works

Brought Forward

R

MOVEMENT JOINTS ETC**Saw cut joints**

4/1/70	3 x 30mm Saw cut joints in top of concrete	m	30
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REINFORCEMENT (PROVISIONAL)**Fabric reinforcement**

4/1/71	Type ref. 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	82
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THE FOLLOWING IN 2 NO. RAINWATER TANKS AND PLINTHS**Earthworks**

4/1/72	Excavate in earth not exceeding 2m deep footings	m3	22
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4/1/73	Risk of collapse of sides of trench excavations not exceeding 1.5m deep	m2	54
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4/1/74	Earthfilling from the excavations as backfilling to trenches compacted to 95% Mod. AASHTO density	m3	8
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Earth filling supplied by the contractor, compacted to 95% Mod. AASHTO density

4/1/75	Imported G5 material obtained from commercial sources supplied by the contractor, compacted to 97% Mod AASHTO density	m3	14
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Compaction of surfaces

4/1/76	Compaction of ground surface under floors etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% MOD AASHTO	m2	29
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4/1/77	Surplus material from excavations to be spread and levelled where directed on site	m3	14
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4/1/78	Approved brand of weed killer applied to surfaces of earth under floors and to sides of excavations	m2	29
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Concrete

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R

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R

30MPa/19mm Reinforced concrete cast against reinforced surfaces

4/1/79	Strip footings	m3	5
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20Mpa/19mm Reinforced concrete cast against smooth formwork

4/1/80	Slabs	m3	1
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SMOOTH FORMWORK (DEGREE OF ACCURACY II)**Smooth formwork to sides**

4/1/81	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	20
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Fabric reinforcement

4/1/82	Type ref. 193 fabric reinforcement in concrete surface beds, slabs, etc	m2	13
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Masonry**Brickwork of NFX bricks in class II mortar**

4/1/83	One brick walls in foundations	m2	10
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Brickwork of NFP bricks in class II mortar

4/1/84	One brick walls	m2	9
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4/1/85	Extra over brickwork for face brickwork in "Corobrick Firelight Satin FBX" face bricks pointed with flush joints	m2	9
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Slip joints between horizontal concrete and brickwork surfaces including cement mortar bedding

4/1/86	Two layers of 3mm thick masonite board not exceeding 300mm wide or high	m	40
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Waterproofing

4/1/87	'Pro-Struct 749' or other approved polysulphide joint sealant including backing cord, bond breaker, etc. to slip joints	m	40
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Carried Forward

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External Works

Brought Forward

R

Plumbing**Polyethylene rainwater tanks, etc.**

4/1/88	5000 litre "JoJo" tank with access lid with inlet hole and sieve and outlet union for 15mm tap and place in position on plinth and secure with cable stay strap 4mm galvanised wire & U-Anchors	No	2
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Class 34 HD uPVC pipes in class C bedding:

4/1/89	110mm Pipes laid in and including excavation, risk of collapse, working space, hoisting in position, backfilling with selected excavated material, cart away surplus material and shoring to pipe trenches not exceeding 1m deep.	m	12
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Extra over uPVC pipes for fittings:

4/1/90	110mm Bend	No	4
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Taps, valves, etc.

4/1/91	Tank outlet tap	No	2
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Sundries

4/1/92	Excavate for and construct gulley comprising of 110mm Upvc gulley trap with 190mm diameter upvc hopperhead with pvc grating, all set in mass concrete and not exceeding 500mm deep. The top of the gulley to be raised 75mm above surrounding ground level and internally dished down to hopper head with smoothened render and external of raised sides to be finished neatly	No	2
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ROADWORK, PARKING AREAS AND PAVING**SUPPLEMENTARY PREAMBLES****Testing of material and filling**

Descriptions of earth filling, compaction, etc shall be deemed to include for all necessary testing required in accordance with the SABS 1200 series

Carried Forward

R

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Clay paving road surfacing

Paving shall be laid to herringbone pattern on 20mm thick (thickness after compaction) clean river sand (preparation of ground or filling elsewhere)

Clean sand shall be swept into joints between roadstones at completion

Bituminous premix road surfacing

4/1/93 30mm Thick (Finished Thickness) tarmacadam paving to parking areas, roadways, etc including bitumen spray to layerworks (layerworks elsewhere measured) m2 13

25Mpa/19mm Reinforced concrete

4/1/94 Concrete walkway to parking areas, roadways, etc in panels between construction joints etc m3 7

Expansion joints with 10mm impregnated softboard between vertical concrete and brick surfaces

4/1/95 Not exceeding 300mm high to edges of surface beds m 81

Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc

4/1/96 10 x 10mm In expansion joints in floors including raking out expansion joint filler as necessary m 81

Fabric reinforcement

4/1/97 Type ref. 193 fabric reinforcement in concrete surface beds, slabs, etc m2 75

"Corobrik" or other equal and approved, 38MPA Burgundy paver PA clay paving bricks, size 200 x 98.5 x 60mm thick, manufactured in accordance with SANS 1575:2007, laid in Herringbone bond pattern with a minimum longitudinal fall of 1% on a transverse fall of at least 2% on 25mm compacted sand bed with fine jointing sand swept and vibrated into joints, all laid on subgrade conforming to SANS 1200D Degree of Accuracy I. Paving to be inspected and re-sanded after three months

4/1/98 Paving to parking areas etc to falls m2 8

Carried Forward

R

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Precast concrete finished smooth on exposed surfaces, including bedding, jointing and pointing

4/1/99	Precast concrete mini kerb 75 x 110mm high (complying with SABS 927) in 1m lengths, wet pressed, placed in position, bedded and jointed in (3:1) cement mortar and flush pointed on exposed faces, including 15MPa/19mm unreinforced concrete haunching at back of each joint, excavation, backfilling, ramming, etc	m	40
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RETAINING BLOCK STRUCTURES**Earthworks****Excavation other than bulk**

4/1/100	Trenches not exceeding 2m deep	m3	88
4/1/101	Risk of collapse of sides of trench and hole excavations not exceeding 1,5m deep	m2	88
4/1/102	Extra over all excavations for loading, carting and dumping surplus excavated material off site to a dumping site to be found by the Contractor (no allowance made for increase in bulk)	m3	40
4/1/103	Clean river sand behind loffelstein wall	m3	50
4/1/104	Backfilling with approved G7 material supplied and carted onto site by the Contractor, compacted to a density of at least 95% Mod. AASHTO maximum density behind retaining block structure	m3	40
4/1/105	Extra over G7 backfilling for stabilised fill with 6% cement	m3	40
4/1/106	Bidum U14 non woven geotextile behind loffelstein wall	m2	24
4/1/107	Flownet DN3 drainage core behind loffelstein wall	m2	24
4/1/108	Allow for the execution of all the prescribed density tests on filling, etc., as pointed out by the Engineer on site to the approval of the Principal Agent.	No	6.00

Concrete, Formwork and Reinforcement**Carried Forward**

R

Section No. 4
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External Works

Brought Forward			R
<u>Concrete</u>			
4/1/109	30MPa/19mm Reinforced concrete cast against excavated surfaces to strip footings	m3	14
4/1/110	Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional)	No	2.00
<u>Reinforcement (CPAP Work Group No. 114)</u>			
4/1/111	Various diameter bars in high tensile steel reinforcement	t	2.00
<u>Precast Concrete</u>			
<u>Interlocking Block Retaining Structures</u>			
<u>'Infraset' precast concrete L500 or other approved interlocking planter blocks finished with grooves on exposed surfaces</u>			
4/1/112	Retaining walls with stepped face and curves as required to suit slopes, formed of 450 x 500 x 170mm high non-interlocking planter units laid with horizontal bed joints to 70 degree slope with geofabric reinforcing on designed foundations (elsewhere measured), backfilling and compacting with approved backfilling material obtained from the external sources and filling the units with garden soil lightly tamped as the work proceeds (vegetation elsewhere measured).	m2	98
<u>"LG Green" or other approved stormwater channels, wet pressed on and including 20Mpa concrete and all necessary excavations, formwork, etc</u>			
4/1/113	Type SW4 Stormwater channel	m	40
<u>Drainage</u>			
<u>Subsoil Drainage</u>			
Carried Forward			R
Section No. 4 External Works Bill No. 1 External Works			

Brought Forward

R

Descriptions for pipes below ground shall be deemed to include excavations, backfilling, compaction and carting away of surplus material from site.

4/1/114	110mm HDPE flexible slotted agricultural pipes laid in and including trenches not exceeding 1m deep including 19mm crushed stone encasing size 300 x 300mm and 'Kaymat' U14 geofabric filter blanket wrapped around encasing with 150mm side and 300mm end laps including stitching.	m	40
4/1/115	Extra over for 110mm capped end	No	2

SUNDRY BUILDING WORK**DECORATIVE SCREEN WALLS AND GRILLES**

Screen walls of type 150 grille blocks bedded and jointed in class II mortar, with continuous joints in both directions and pointed with flush horizontal and vertical joints

4/1/116	150mm Walls pointed on both sides	m2	16
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Carried Forward to Summary of Section No. 4

R

Section No. 4
External Works
Bill No. 1
External Works

Item No		Quantity	Rate	Amount
	<u>BILL NO. 2</u>			
	<u>PROVISIONAL SUMS</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	<u>General</u>			
	Work for which budgetary allowances are provided will be measured and valued in accordance with clause 32 of the Principal Building Agreement and deducted in whole or in part if not required without any compensation for loss or profit on the said allowances.			
	Prime cost amounts and provisional sums are net.			
	The Contractor must note that attendance includes the provision of hoisting and access facilities for a sub-contractor.			
	The Contractors profit and attendance shall include for the storage of such equipment and materials.			
	The Contractor must ensure that the capacities of his hoisting equipment is sufficient to deal with the masses and the quantities of the items hoisted.			
	Provide the necessary personnel to operate such hoisting and access equipment.			
	Prime cost amounts include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists.			
	<u>LANDSCAPING</u>			
4/2/1	Provide the amount of R 15 000.00 (Fifteen Thousand Rand) for Landscaping	Item		15 000.00
4/2/2	Profit	Item		
4/2/3	Attendance	Item		
	<u>FENCING, GATES, ETC</u>			
4/2/4	Provide the amount of R 100 000.00 (One Hundred Thousand Rand) for Fencing, Gates etc	Item		100 000.00
	Carried Forward		R	
	Section No. 4 External Works Bill No. 2 Provisional Sums			

Brought Forward			R	
4/2/5	Profit	Item		
4/2/6	Attendance	Item		
<u>PERCOLATION TESTING</u>				
4/2/7	Provide the amount of R 25 000.00 (Twenty Five Thousand Rand) for Percolation test by specialist	Item		25 000.00
4/2/8	Profit	Item		
4/2/9	Attendance	Item		
Carried Forward to Summary of Section No. 4			R	
Section No. 4				
External Works				
Bill No. 2				
Provisional Sums				

Section No. 4

External Works

SECTION SUMMARY - External Works

Bill No		Page No	Amount
4/1	External Works	119	
4/2	Provisional Sums	121	
Carried to Final Summary			R
Section No. 4 External Works			

Section No	FINAL SUMMARY	Page No	Amount
1	Preliminaries	42	
2	Main Residence	78	
3	Rondavel	104	
4	External Works	122	
	Sub-Total		R
	<u>Contingencies</u>		
	ADD : Contingencies	Item	200 000.00
	Sub-Total		R
	Value Added Tax (15%)		R
	Carried to Form of Tender		R