

Item  
No

Unit

Quantity

Rate

Amount

**SECTION NO. 1**

**BILL NO. 1**

**PRELIMINARIES**

**BUILDING AGREEMENT AND  
PRELIMINARIES**

The **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described

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

The **JBCC** General Preliminaries (May 2018) published by the Joint Building Contracts Committee for use with the **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) shall be deemed to be incorporated in these **bills of quantities**, amended as hereinafter described

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

The clauses in the above mentioned 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"

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

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**PREAMBLES FOR TRADES**

*The General Preambles for Trades 2017 published by the Association of South African Quantity Surveyors is designed to support and extend the abbreviated descriptions utilised in these bills of quantities by inter alia referring to SANS construction standards. **Where such preambles are not applicable** (eg where BS or Euro construction standards are applicable or the design consultants provide other preambles/specifications for insertion), users are to ensure that the abbreviated descriptions when read in conjunction with the Standard System of Measuring Building Work (seventh edition) for works within South Africa or the Standard Method of Measuring Building Work for Africa 2015 (first edition) for works elsewhere in Africa, represent the full description by extending the abbreviated bills of quantities descriptions and/or by inserting appropriate preambles or specifications*

*Note that the text of the Standard System of Measuring Building Work (seventh edition) and that of the Standard Method of Measuring Building Work for Africa 2015 (first edition) is the same*

*The latest version of the General Preambles for Trades should be referred to should the General Preambles for Trades 2017 be revised in future*

The General Preambles for Trades 2017 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 General Preambles will be entertained

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 General Preambles

The **contractor's** prices for all items throughout these **bills of quantities** shall take account of and include where applicable for all of the obligations, requirements and specifications given in the General Preambles and in any supplementary preambles and/or specifications

**STRUCTURE OF THIS PRELIMINARIES BILL**

Section A : A recital of the headings of the individual clauses in the aforementioned **JBCC** Principal Building Agreement

Section B : A recital of the headings of the individual clauses in the aforementioned **JBCC** General Preliminaries

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

**PRICING OF PRELIMINARIES**

Should the **contractor** select Option A in the **contract data** for the adjustment of **preliminaries**, the amounts entered against the relevant items in these **preliminaries** are to be divided into one or more of the three categories provided namely fixed (F), value related (V) and time related (T)

**SECTION A: PRINCIPAL BUILDING AGREEMENT**

**Interpretation (A1-A7)**

1 Clause 1.0 - Definitions and interpretation

**Pricing of bills of quantities**

The **contractor** is to allow opposite each item for all costs in connection therewith. All prices to include, unless otherwise stated, for all materials, fabrication, conveyance and delivery, unloading, storing, unpacking, hoisting, labour, setting, fitting and fixing in position, cutting and waste (except where to be measured in accordance with the standard system of measurement), patterns, models and templates, plant, temporary works, returning of packaging, duties, taxes (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 assigned authority to bind the **contractor** and each of these persons
3. The **contractor** shall not alter its composition or legal status without the prior written consent of the **employer**

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

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2 **Clause 2.0 - Law, regulations and notices**

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

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3 Clause 3.0 - Offer and acceptance  
F:..... V:.....  
T:.....

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4 Clause 4.0 - Cession and assignment  
F:..... V:.....  
T:.....

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5 Clause 5.0 - Documents

**Value Added Tax**

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

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

**Electronic issue of drawings**

All drawings for this project will be issued electronically and the **contractor** shall be deemed to have received such drawings on the date that such drawings have been dispatched electronically [5.6]

F:..... V:.....  
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6 Clause 6.0 - **Employer's agents**

**Delegated authority**

The authority of the **principal agent** to issue **contract instructions** [17.1] and perform duties for specific aspects of the **works** is delegated to **agents** as follows [6.2]. This does not preclude the **principal agent** from issuing such **contract instructions**:

- 1. Architect

*Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA*

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1.1 Duties [6.2] :

The architect is responsible for the architectural design, functional design and quality inspection of the **works**

1.2 **Contract instructions** [6.2; 17.1] :

1.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

1.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

1.2.3 The **site** [13.0]

1.2.4 Compliance with the **law**, regulations and bylaws [2.1]

1.2.5 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**

1.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

1.2.7 Removal or re-execution of work

1.2.8 Removal or substitution of any **materials and goods**

1.2.9 Protection of the **works**

1.2.10 Making good physical loss and repairing damage to the **works** [23.2.2]

1.2.11 Rectification of **defects** [21.2]

1.2.12 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**

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1.2.13 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums**

1.2.14 Appointment of a **subcontractor** [14.0; 15.0]

1.2.15 Work by **direct contractors** [16.0]

1.2.16 On suspension or termination, protection of the **works**, removal of **construction equipment** and surplus **materials and goods** [29.0] ?

2. Quantity surveyor

2.1 Duties [6.2] :

The quantity surveyor is responsible for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions of the **works**

2.2 **Contract instructions** [6.2; 17.1] :

2.2.1 No **contract instructions** delegated to the quantity surveyor ?

3. Civil and structural engineer

*Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA*

3.1 Duties [6.2] :

The civil and structural engineer is responsible for all aspects of civil and structural engineering design and quality inspection of the **works**

3.2 **Contract instructions** [6.2; 17.1] :

3.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

3.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

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- 3.2.3 The **site** [13.0]
- 3.2.4 Compliance with the **law**, regulations and bylaws [2.1]
- 3.2.5 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 3.2.6 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 3.2.7 Removal or re-execution of work
- 3.2.8 Removal or substitution of any **materials and goods**
- 3.2.9 Protection of the **works**
- 3.2.10 Making good physical loss and repairing damage to the **works** [23.2.2]
- 3.2.11 Rectification of **defects** [21.2]
- 3.2.12 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 3.2.13 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** ?

4. Mechanical engineer

*Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA*

4.1 Duties [6.2] :

The mechanical engineer is responsible for all aspects of mechanical engineering design and quality inspection of the **works** ? and, where appointed by the **employer** for quantity surveying services in respect of the mechanical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

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4.2 **Contract instructions** [6.2; 17.1] :

- 4.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement
- 4.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**
- 4.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 4.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 4.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 4.2.6 Removal or re-execution of work
- 4.2.7 Removal or substitution of any **materials and goods**
- 4.2.8 Protection of the **works**
- 4.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 4.2.10 Rectification of **defects** [21.2]
- 4.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 4.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** ?

5. Electrical engineer

*Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA*

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5.1 Duties [6.2] :

The electrical engineer is responsible for all aspects of electrical engineering design and quality inspection of the **works** ? and, where appointed by the **employer** for quantity surveying services in respect of the electrical installations, for all measurements, valuations, financial assessments and all other quantity surveying and cost control functions

5.2 **Contract instructions** [6.2; 17.1] :

- 5.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement
- 5.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**
- 5.2.3 Compliance with the **law**, regulations and bylaws [2.1]
- 5.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**
- 5.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]
- 5.2.6 Removal or re-execution of work
- 5.2.7 Removal or substitution of any **materials and goods**
- 5.2.8 Protection of the **works**
- 5.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 5.2.10 Rectification of **defects** [21.2]
- 5.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**

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5.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** ?

6. Wet services engineer

*Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA*

6.1 Duties [6.2] :

The wet services engineer is responsible for all aspects of wet services engineering design and quality inspection of the **works**

6.2 **Contract instructions** [6.2; 17.1] :

6.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

6.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

6.2.3 Compliance with the **law**, regulations and bylaws [2.1]

6.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**

6.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

6.2.6 Removal or re-execution of work

6.2.7 Removal or substitution of any **materials and goods**

6.2.8 Protection of the **works**

6.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]

6.2.10 Rectification of **defects** [21.2]

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6.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**

6.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** ?

7. Fire consultant

*Note that the contract instructions hereinafter are selected from those listed in clause 17.1 of the JBCC PBA*

7.1 Duties [6.2] :

The fire consultant is responsible for all aspects of rational fire design and quality inspection of the **works**

7.2 **Contract instructions** [6.2; 17.1] :

7.2.1 Rectification of discrepancies, errors in description or quantity or omission of items in the **agreement** other than in the **JBCC** Principal Building Agreement

7.2.2 Alteration to design, standards or quantity of the **works** provided that such **contract instructions** shall not substantially change the scope of the **works**

7.2.3 Compliance with the **law**, regulations and bylaws [2.1]

7.2.4 Provision and testing of samples of **materials and goods** and/or of finishes and assemblies of elements of the **works**

7.2.5 Opening up of work for inspection, removal or re-execution [23.2.4; 26.4.2]

7.2.6 Removal or re-execution of work

7.2.7 Removal or substitution of any **materials and goods**

7.2.8 Protection of the **works**

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- 7.2.9 Making good physical loss and repairing damage to the **works** [23.2.2]
- 7.2.10 Rectification of **defects** [21.2]
- 7.2.11 A **list for practical completion** specifying outstanding or defective work to be rectified to achieve **practical completion**, a **list for completion** and a **list for final completion** specifying outstanding or defective work to be rectified to achieve **final completion**
- 7.2.12 Expenditure of **budgetary allowances, prime cost amounts** and **provisional sums** ?

8. Health and safety consultant

8.1 Duties [6.2] :

The health and safety consultant is responsible for all aspects of health and safety of the **works**. Without derogating from the generality thereof, the health and safety consultant will perform the following specific functions and duties in respect of the health and safety aspects of the **works**. He shall:

- 8.1.1 Act as the **employer's agent** in terms of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended
- 8.1.2 Prepare and update the health and safety specification for the **works**
- 8.1.3 Agree with the **contractor** the health and safety plan for the **works**
- 8.1.4 Carry out regular audits to ensure adherence to the safety plan and compliance with the act and regulations
- 8.1.5 Stop the execution of the **works** where the agreed specification or plan is not adhered to?

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7 Clause 7.0 - Design responsibility

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

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**Insurances and securities (A8-A11)**

8 Clause 8.0 - **Works** risk

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

Item

9 Clause 9.0 - Indemnities

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

Item

10 Clause 10.0 - Insurances

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

Item

11 Clause 11.0 - **Securities**

**Guarantee for payment**

The **employer** shall not provide to the **contractor** a **guarantee for payment**

[11.5.1]. The **contractor** shall consequently waive his lien or right of continuing possession of the **works** [11.10]?

**Extension of waiver of lien**

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]

F:..... V:.....  
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**Execution (A12 - A17)**

12 Clause 12.0 - Obligations of the **parties**

**Office accommodation**

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]

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**Notice board**

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]

**Statutory and other notices**

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

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

F:..... V:.....  
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13 Clause 13.0 - Setting out

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

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14 Clause 14.0 - Nominated **subcontractors**

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

Item

15 Clause 15.0 - Selected **subcontractors**

F:..... V:.....  
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16 Clause 16.0 - **Direct contractors**

**Attendance on direct contractors**

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

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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
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:.....  
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17 Clause 17.0 - **Contract instructions**

? **Site instructions**

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

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

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**Completion (A18 - A24)**

18 Clause 18.0 - Interim completion

N/A

19 Clause 19.0 - **Practical completion**

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

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20 Clause 20.0 - Completion in **sections**

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

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

F:..... V:.....  
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22 Clause 22.0 - **Latent defects** liability period

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

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23 Clause 23.0 - Revision of the 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:.....  
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24 Clause 24.0 - **Penalty** for late or non-completion

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

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**Payment (A25 - A27)**

25 Clause 25.0 - Payment

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

**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** [26.9.5]

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**Tenant installation/user requirements delayed**

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

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**

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 ?

**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

**Claims from subcontractors**

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:.....  
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27 Clause 27.0 - Recovery of expense and/or loss

F:..... V:.....  
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**Suspension and termination (A28 - A29)**

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

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29 Clause 29.0 - Termination

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**Dispute resolution (A30)**

30 Clause 30.0 - Dispute resolution

F:..... V:.....  
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31 **Agreement**

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

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T:.....

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32 **Contract data**

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

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T:.....

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**SECTION B: GENERAL PRELIMINARIES**

*Should it be necessary to expand on any of the General Preliminaries clauses, the user should list the appropriate General Preliminary clause number and heading and insert the relevant provision under a suitable heading in bold as may be necessary*

**Definitions and interpretation (B1)**

33 Clause 1.1 - Definitions

F:..... V:.....  
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34 Clause 1.2 - Interpretation

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**Documents (B2)**

35 Clause 2.1 - Checking of documents

F:..... V:.....  
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36 Clause 2.2 - Provisional **bills of quantities**

**Multiple procurement**

These **bills of quantities** are in multiple procurement format ie the "wet trades" - earthworks, concrete, formwork and reinforcement, precast concrete, masonry, waterproofing and sub-surface drainage - are provisionally measured and the subsequent trades are **budgetary allowances** and/or **provisional sums**

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37 Clause 2.3 - Availability of **construction information**

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

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38 Clause 2.4 - Ordering of **materials and goods**

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

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**Previous work and adjoining properties (B3)**

39 Clause 3.1 - Previous work - dimensional accuracy

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40 Clause 3.2 - Previous work - **defects**

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41 Clause 3.3 - Inspection of adjoining properties

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**The site (B4)**

42 Clause 4.1 - Handover of **site** in stages  
F:..... V:.....  
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43 Clause 4.2 - Enclosure of the **works**  
F:..... V:.....  
T:.....

Item

44 Clause 4.3 - Geotechnical and other investigations  
F:..... V:.....  
T:.....

Item

45 Clause 4.4 - Encroachments  
F:..... V:.....  
T:.....

Item

46 Clause 4.5 - Existing premises occupied  
F:..... V:.....  
T:.....

Item

47 Clause 4.6 - Services - known  
F:..... V:.....  
T:.....

Item

**Management of contract (B5)**

48 Clause 5.1 - Management of the **works**  
F:..... V:.....  
T:.....

Item

49 Clause 5.2 - Progress meetings  
F:..... V:.....  
T:.....

Item

50 Clause 5.3 - Technical meetings  
F:..... V:.....  
T:.....

Item

**Carried Forward**

R

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Bill No. 1  
Preliminaries

Brought Forward

R

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

51 Clause 6.1 - Samples of materials

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

Item

52 Clause 6.2 - Workmanship samples

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

Item

53 Clause 6.3 - Shop drawings

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

Item

54 Clause 6.4 - Compliance with manufacturer's instructions

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

Item

**Deposits and fees (B7)**

55 Clause 7.1 - Deposits and fees

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

Item

**Temporary services (B8)**

56 Clause 8.1 - Water

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

Item

57 Clause 8.2 - Electricity

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

Item

58 Clause 8.3 - Ablution and welfare facilities

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

Item

59 Clause 8.4 - Communication facilities

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

Item

Carried Forward

R

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Brought Forward

R

**Prime cost amounts (B9)**

60 Clause 9.1 - Responsibility for **prime cost amounts**

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

Item

**Attendance on subcontractors (B10)**

61 Clause 10.1 - General attendance

**User note**

*General attendance is defined as being the duties of the contractor in terms of clause 12.2 of the JBCC n/s subcontract agreement*

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

Item

62 Clause 10.2 - Special attendance

*It is important to note that general attendance only requires the contractor to "permit the subcontractor 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" (refer to 12.2.13 of the JBCC n/s subcontract agreement). Many n/s subcontractors qualify their tenders to exclude scaffolding and/or hoisting facilities. Especially scaffolding could be an expensive item and it may be necessary in order to avoid claims to require the contractor to provide for the extended use of scaffolding for specific subcontracts within a description of "special attendance" in the applicable bill*

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

Item

**General (B11)**

63 Clause 11.1 - Protection of the **works**

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

Item

64 Clause 11.2 - Protection/isolation of existing **works** and **works** occupied in **sections**

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

Item

Carried Forward

R

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R

65 Clause 11.3 - Security of the **works**

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

Item

66 Clause 11.4 - Notice before covering work

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

Item

67 Clause 11.5 - Disturbance

**Disturbance**

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

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

Item

68 Clause 11.6 - Environmental disturbance

The **contractor** is to ensure that all roads which border the **site** and are 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**

69 Clause 11.7 - **Works** cleaning and clearing

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

Item

70 Clause 11.8 - Vermin

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

Item

71 Clause 11.9 - Overhand work

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

Item

**Carried Forward**

R

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Brought Forward

R

72 Clause 11.10 - Tenant installations  
F:..... V:.....  
T:.....

Item

73 Clause 11.11 - Advertising  
F:..... V:.....  
T:.....

Item

**SECTION C: SPECIFIC PRELIMINARIES**

74 Warranties for materials and workmanship  
  
Where warranties for materials and/or workmanship are called for, the **contractor** shall obtain a written warranty, addressed to the **employer**, from the entity supplying the materials and/or executing the work and shall deliver same to the **principal agent** on **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**  
  
F:..... V:.....  
T:.....

Item

75 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  
Bill No. 1  
Preliminaries

Brought Forward

R

76 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

77 Overloading

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

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

Item

78 Health and safety

Without limiting the generality of the provisions of clause 2.0, the **contractor's** attention is drawn to the provisions of the Construction Regulations issued in terms of the Occupational Health and Safety Act, 1993 as amended. 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]

Carried Forward

R

Section No. 1  
 Bill No. 1  
 Preliminaries

**Brought Forward**

R

The **contractor** shall:

1. Comply with the health and safety specification for the **works**
2. Prepare and agree with the health and safety consultant the health and safety plan for the **works**
3. Cooperate 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

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

Item

79 Broad based black economic empowerment (BBB-EE)

Tenders submitted will be evaluated taking into account their empowerment rating

The **employer** will be monitoring the broad based black economic empowerment (BBB-EE) status of the **contractor** throughout the execution of the **works**

The **contractor** is to submit to the **principal agent** on an annual basis a schedule of spend, split into vendors engaged as **subcontractors** and suppliers indicating their BBB-EE rating including proof of the said rating

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

Item

80 Advertising rights

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

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

Item

**Carried Forward**

R

Section No. 1  
Bill No. 1  
Preliminaries

**Brought Forward**

R

81 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

82 Media releases

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

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

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

Item

**SUMMARY OF CATEGORIES**

Category : Fixed R.....

Category : Value R.....

Category : Time R.....

**Carried to Final Summary**

R

Section No. 1  
Bill No. 1  
Preliminaries

Item  
No

Quantity

Rate

Amount

**SECTION NO. 2**

**BILL NO. 1**

**ALTERATIONS**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

View site

Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

**Carried Forward**

R

Section No. 2  
Bill No. 1  
Alterations

**Brought Forward**

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re-fixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Asbestos work may only be performed subject to prior approval of the Provincial Director, Occupational Health and Safety, department of Labour in writing

Proof of such notification must be applied to the Client prior to work proceeding. All employees must be informed and receive training on aspects such as the contents and scope of the Asbestos Regulations as published in Government Gazette 23108 dated 10 February 2002, the potential risks of exposure to asbestos, precautionary measures employees have to take and all other requirements deemed necessary to provide a safe and healthy environment for all employees as specified by the Asbestos Regulations as indicated above.

Disposal shall be done under strict accordance of the act.

**Carried Forward**

Section No. 2  
Bill No. 1  
Alterations

R

R

**Brought Forward**

R

Contractors will be held responsible for all damage, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the employer. Contractors are to Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or distributed after completion

**REMOVAL OF EXISTING WORK**

**Temporary protection, etc. including removal:**

Contractors will be held responsible for all damages, however caused, to floors, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the Principal Agent

|   |  |    |     |
|---|--|----|-----|
| 1 | Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Principal Agent and make good all work damaged or distributed after completion. (Provisional) | m2 | 445 |
|---|--|----|-----|

**Taking down and removing roofs, floors, panelling, ceilings, partitions, etc**

|   |  |    |     |
|---|--|----|-----|
| 2 | Carefully take out and remove existing metal roof covering including sislation, timber purlins, etc. | m2 | 445 |
| 3 | Fibre cement ceilings, including cornices, timber brandering, etc.                                   | m2 | 342 |
| 4 | Timber beams   | m  | 32  |
| 5 | Existing asbestos fascia boards  | m  | 64  |
| 6 | Existing asbestos barge boards   | m  | 28  |

**Take out and remove doors, windows etc from brickwork to remain including making good cement plaster on both sides**

|   |  |    |   |
|---|--|----|---|
| 7 | Timber single door 813 x 2032mm high overall | No | 4 |
|---|--|----|---|

**Carried Forward**

R

Section No. 2  
Bill No. 1  
Alterations

**Brought Forward**

R

**Taking out/off and removing glass and mirrors**

8 Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere measured) m2 20

**Take out and remove ironmongery**

9 Remove existing damaged brass stay handle bolted / screwed to existing window No 20

**Taking out/off and removing joinery work**

10 Wall mounted pin board 4800 x 1140mm high No 4

**Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc**

11 30mm Screed from floors in patches m2 103

**PREPARATORY WORK TO EXISTING SURFACES**

**Preparatory work**

12 Making good to defects in concrete floors with "Sika" or other approved m2 103

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No. 1  
Alterations

R



Item  
No

Quantity

Rate

Amount

**BILL NO. 2**

**ROOF COVERINGS**

**PREAMBLES**

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

**SUPPLEMENTARY PREAMBLES**

**SHEETING**

Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards

**SAFETY**

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

**INSTALLATION**

Every precaution shall be taken to prevent damage to

**Carried Forward**

R

Section No. 2  
Bill No. 2  
Roof Coverings

**Brought Forward**

roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.

**HANDLING AND STORAGE**

The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

**INSPECTION PRIOR TO INSTALLATION**

Before commencing installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
- b. Purlins and girths are at the correct spacing and are within the specified tolerances.
- c. The corners of the roof are square and the wall framework is perpendicular or as specified.
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- g. The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be

**Carried Forward**

Section No. 2  
Bill No. 2  
Roof Coverings

R

R

**Brought Forward**

inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

R

**PROTRUSION THROUGH SHEETED SURFACES**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

**GUARANTEE**

The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.

**PROFILED METAL SHEETING AND ACCESSORIES**

**"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins**

1 Roof covering with pitch not exceeding 25 degrees m2 445

**Sundries**

2 Ridge flashings 550mm girth m 32

**ROOF AND WALL INSULATION**

**Carried Forward**

R

Section No. 2  
Bill No. 2  
Roof Coverings

**Brought Forward**

**"Sisalation 410" housing grade glass fibre  
reinforced aluminium foil bonded insulation**

3 Insulation laid taut over purlins (at approximately 1  
100mm centres) and fixed concurrent with roof covering  
including galvanised steel straining wires

m2

445

R

**Carried Forward to Summary of Section No. 2**

Section No. 2  
Bill No. 2  
Roof Coverings

R

| Item No | <b><u>BILL NO. 3</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>CARPENTRY AND JOINERY</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>   |          |      |        |
|         | <b><u>Sawn softwood</u></b>  |          |      |        |
| 1       | 50 x 75mm Purlins  | m        | 437  |        |
|         | <b><u>Laminated Wrot Saligna</u></b>   |          |      |        |
| 2       | 76 x 228mm Beams fixed to existing metal post  | m        | 32   |        |
|         | <b><u>EAVES, VERGES ETC</u></b>  |          |      |        |
|         | <b><u>"Everite Nutec" or other equally approved medium density pressed fibre-cement</u></b>  |          |      |        |
| 3       | 15 x 255mm Fascias, including galvanised steel H-profile joiners   | m        | 64   |        |
| 4       | 80 x 275mm Angle section barge board, including galvanised steel H-profile joiners   | m        | 28   |        |
|         | <b><u>FRAMED DOORS ETC</u></b>   |          |      |        |
|         | <b><u>Wrought meranti doors hung to wooden frames</u></b>  |          |      |        |
| 5       | 40mm Framed, ledged and batten door 813 x 2032mm x 44mm ply backed hardwood door. Tenderers are referred to Architect's drawings annexured to these Bills of Quantities for the full description of the door   | No       | 4    |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 2<br>Bill No. 3<br>Carpentry and Joinery   |          |      |        |

**Brought Forward**

R

**PINNING BOARDS**

**Tempered hardboard**

6 3mm Backboard plugged and screwed to walls at edges with brass screws and cup washers at 450mm centres. m2 22

**"9mm Van Dyck" PFX Satin Shield staple bire or other approved**

7 Pinning board fixed to walls with an approved adhesive (timber surround elsewhere measured) m2 22

**Wrot Meranti**

8 19 x 69mm Once rebated and arris rounded pinning board surround with mitred corners, plugged and screwed to walls with counter sunk brass screws and cupped washers m 52

**BUDGETARY ALLOWANCES**

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

9 Allow the sum of R4,000.00 for ironmongery Item 4,000.00

**Carried Forward to Summary of Section No. 2**

R

Section No. 2  
Bill No. 3  
Carpentry and Joinery

| Item No | <b><u>BILL NO. 4</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>METALWORK</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>   |          |      |        |
|         | <b><u>1,2mm Double rebated frames suitable for one brick walls fitted with three hinges</u></b>  |          |      |        |
| 1       | Frame for door 813 x 2032mm high.  | No       | 4    |        |
|         | <b><u>HOT DIPPED GALVANISED SUNDRY STEELWORK</u></b>   |          |      |        |
|         | <b><u>Brackets etc. to roof timber, benches, shelvings etc.</u></b>  |          |      |        |
|         | <b><u>Posts etc.</u></b>   |          |      |        |
| 2       | 100 x 100 x 5mm Hollow section post 2700mm high with 200 x 200 x 10mm base plate welded to one end and purpose made U shaped bracket to suit 76 x 228mm high beam with and including 3 No. 8mm diameter holes pre-drilled on both sides for fixing of beam to other end.                     | No       | 4    |        |
|         | <b><u>SUNDRIES</u></b>   |          |      |        |
| 3       | "H-Systems" or other approved brass stay handle bolted / screwed to existing window  | No       | 20   |        |
|         | <b>Carried Forward to Summary of Section No. 2</b>   |          |      |        |
|         | Section No. 2  |          |      |        |
|         | Bill No. 4   |          |      |        |
|         | Metalworks   |          |      |        |
|         |  |          |      | R      |

Item  
No

Quantity

Rate

Amount

**BILL NO. 5**

**CEILING PARTITIONS AND ACCESS  
FLOORING**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

Openings in ceilings for light fittings etc. are to include for additional suspension as required

**Fixings**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork, brickwork 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

**Ceilings**

Unless otherwise described ceilings shall be deemed to be horizontal

**Carried Forward**

R

Section No. 2  
Bill No. 5  
Ceilings, Partitions and Access Flooring



**Brought Forward**

R

**Insulation**

Insulation laid on the ceiling ensuring that it fits tightly between the tie beams.

Insulation should be cut 50mm more than distance between the tie beams. Cut insulation out around down lights. Cut Insulation out around trap doors.

Fix the cut section to the back of the trap door using a good quality contact adhesive. Wrap insulation around cold and hot water pipes ensuring that there is 10mm overlap. Secure the insulation using a cable tie at 300mm centres

**Steel components**

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

**NAILED-UP CEILINGS**

**9,5mm "Rhino" gypsum plasterboard with taped and skimmed joints**

|   |   |    |     |
|---|---|----|-----|
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres  | m2 | 259 |
| 2 | Extra over ceiling for 600 x 600mm trap door of 42 x 42mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening. | No | 1   |

**6mm "Everite Nutec" fibre-cement boards with white H-type PVC jointing strips**

|   |  |    |    |
|---|--|----|----|
| 3 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres | m2 | 83 |
|---|--|----|----|

**"Rhino" gypsum plasterboard cornices**

|   |   |   |     |
|---|---|---|-----|
| 4 | 75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders | m | 198 |
|---|---|---|-----|

**Carried Forward to Summary of Section No. 2**

Section No. 2  
 Bill No. 5  
 Ceilings, Partitions and Access Flooring

R

| Item<br>No | <b><u>BILL NO. 6</u></b>   | Quantity | Rate | Amount |
|------------|--|----------|------|--------|
|            | <b><u>PLASTERING</u></b>   |          |      |        |
|            | <b><u>PREAMBLES</u></b>  |          |      |        |
|            | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|            | 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 |          |      |        |
|            | <b><u>SCREEDS</u></b>  |          |      |        |
|            | <b><u>Screeds wood floated, on concrete</u></b>  |          |      |        |
| 1          | 30mm Thick on floors in patches  | m2       | 103  |        |
|            | <b>Carried Forward to Summary of Section No. 2</b>   |          |      | R      |
|            | Section No. 2<br>Bill No. 6<br>Plastering  |          |      |        |

| Item No | <b><u>BILL NO. 7</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>PLUMBING AND DRAINAGE</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>RAINWATER DISPOSAL</u></b>   |          |      |        |
|         | <b><u>"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally 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></b> |          |      |        |
| 1       | 125 x 85 x 0.6mm Ogee profile gutter   | m        | 64   |        |
| 2       | Extra over gutter for 100 x 75mm outlet  | No       | 10   |        |
| 3       | Extra over gutter for stop ends  | No       | 4    |        |
|         | <b><u>0.7mm Baked enamel aluminium downpipe including holderbats</u></b>   |          |      |        |
| 4       | 100 x 75mm rainwater pipe  | m        | 40   |        |
| 5       | Extra over rainwater pipe for bend   | No       | 20   |        |
| 6       | Extra over rainwater pipe for shoe   | No       | 10   |        |
|         | <b>Carried Forward to Summary of Section No. 2</b>   |          |      | R      |
|         | Section No. 2<br>Bill No. 7<br>Plumbing and Drainage   |          |      |        |

| Item No | <b><u>BILL NO. 8</u></b>   | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
|         | <b><u>GLAZING</u></b>  |      |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |      |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |      |          |      |        |
|         | 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 |      |          |      |        |
|         | <b><u>GLAZING TO STEEL WITH PUTTY</u></b>  |      |          |      |        |
|         | <b><u>6.3mm Clear float glass</u></b>  |      |          |      |        |
| 1       | Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup>  | m2   | 20       |      |        |
|         | <b>Carried Forward to Summary of Section No. 2</b>   |      |          |      | R      |
|         | Section No. 2<br>Bill No. 8<br>Glazing   |      |          |      |        |

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Before painting can commence, every problem must be repaired in strict accordance with SECTION 2 - Best painting practice</p> <p><b><u>SANS Specifications</u></b></p> <p>Alkali resistant primer - SANS 1416</p> <p>Wash primer (metal etch) - SANS 1001 - 1</p> <p>Primers for internal wood work - SANS 678 Type 111</p> <p>Gloss enamel paint - SANS 630</p> <p>Undercoat for paints (Except emulsion paint) - SANS 681 Type 1</p> <p>Aluminium paint - SANS 682 Grade 11</p> <p>Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)</p> <p><b><u>ON NEW SURFACES</u></b></p> <p><b><u>ON PLASTERBOARD SURFACES</u></b></p> |          |      |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 2<br>Bill No. 9<br>Paintwork   |          |      |        |

Brought Forward

R

**"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use**

|   |   |    |     |
|---|---|----|-----|
| 1 | Ceilings including priming metal cover strips and nailheads | m2 | 259 |
| 2 | 75mm Cornices   | m  | 198 |

**ON FIBRE-CEMENT BOARD SURFACES**

**One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint**

|   |                            |    |    |
|---|----------------------------|----|----|
| 3 | On ceilings                | m2 | 83 |
| 4 | On fascia and barge boards | m  | 92 |

**ON WOOD SURFACES**

**"Plascon" or other equally approved primer, one coat alkyd based universal undercoat and two coats professional gloss enamel paint**

|   |          |    |    |
|---|----------|----|----|
| 5 | On doors | m2 | 16 |
|---|----------|----|----|

**Two coats superior quality "Plascon" or other equally approved WoodCare Interior ultra varnish**

|   |   |   |    |
|---|---|---|----|
| 6 | Skirting, rails, etc. not exceeding 300mm girth | m | 52 |
|---|---|---|----|

**"Plascon" or other approved clear timber protective sealer as per manufacturer's recommendation**

|   |                    |    |    |
|---|--------------------|----|----|
| 7 | On laminated beams | m2 | 19 |
|---|--------------------|----|----|

**Two coats Carbolineum**

|   |                    |    |    |
|---|--------------------|----|----|
| 8 | On exposed trusses | m2 | 38 |
|---|--------------------|----|----|

**ON METAL SURFACES**

**"Plascon" or other equally approved one coat red oxide primer, one coat alkyd based universal undercoat and two coats professional gloss enamel (PBS 1000) paint**

|   |                |    |   |
|---|----------------|----|---|
| 9 | On door frames | m2 | 9 |
|---|----------------|----|---|

Carried Forward to Summary of Section No. 2

R

Section No. 2  
Bill No. 9  
Paintwork

| Item No | <b><u>BILL NO. 10</u></b>  | Unit | Quantity | Rate | Amount     |
|---------|--|------|----------|------|------------|
|         | <b><u>PROVISIONAL SUMS</u></b>   |      |          |      |            |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |      |          |      |            |
|         | <b><u>General</u></b>  |      |          |      |            |
|         | Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned |      |          |      |            |
|         | All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned   |      |          |      |            |
|         | <b><u>ELECTRICAL</u></b>   |      |          |      |            |
| 1       | Provide an amount of R157,000.00 (One Hundred and Fifty Seven Thousand Rand) for electrical works  |      | Item     |      | 157,000.00 |
| 2       | Profit on the above item   |      | Item     |      |            |
| 3       | Attendance on the above item   |      | Item     |      |            |
|         | <b>Carried Forward to Summary of Section No. 2</b>   |      |          | R    |            |
|         | Section No. 2<br>Bill No. 10<br>Provisional Sums   |      |          |      |            |

**SECTION SUMMARY - Block A - Four Classrooms Block**

| Bill No |  | Page No | Amount |
|---------|--|---------|--------|
| 1       | Alterations                              | 32      |        |
| 2       | Roof Coverings                           | 36      |        |
| 3       | Carpentry and Joinery                    | 38      |        |
| 4       | Metalworks                               | 39      |        |
| 5       | Ceilings, Partitions and Access Flooring | 41      |        |
| 6       | Plastering                               | 42      |        |
| 7       | Plumbing and Drainage                    | 43      |        |
| 8       | Glazing                                  | 44      |        |
| 9       | Paintwork                                | 46      |        |
| 10      | Provisional Sums                         | 47      |        |

**Carried to Final Summary**

Section No. 2

R



Item  
No

Quantity

Rate

Amount

**SECTION NO. 3**

**BILL NO. 1**

**ALTERATIONS**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

View site

Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

**Carried Forward**

R

Section No. 3  
Bill No. 1  
Alterations

**Brought Forward**

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re-fixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Asbestos work may only be performed subject to prior approval of the Provincial Director, Occupational Health and Safety, department of Labour in writing

Proof of such notification must be applied to the Client prior to work proceeding. All employees must be informed and receive training on aspects such as the contents and scope of the Asbestos Regulations as published in Government Gazette 23108 dated 10 February 2002, the potential risks of exposure to asbestos, precautionary measures employees have to take and all other requirements deemed necessary to provide a safe and healthy environment for all employees as specified by the Asbestos Regulations as indicated above.

Disposal shall be done under strict accordance of the act.

**Carried Forward**

Section No. 3  
Bill No. 1  
Alterations

R

R

**Brought Forward**

R

Contractors will be held responsible for all damage, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the employer. Contractors are to Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or distributed after completion

**REMOVAL OF EXISTING WORK**

**Temporary protection, etc. including removal:**

Contractors will be held responsible for all damages, however caused, to floors, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the Principal Agent

|   |  |    |     |
|---|--|----|-----|
| 1 | Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Principal Agent and make good all work damaged or distributed after completion. (Provisional) | m2 | 445 |
|---|--|----|-----|

**Taking down and removing roofs, floors, panelling, ceilings, partitions, etc**

|   |  |    |     |
|---|--|----|-----|
| 2 | Carefully take out and remove existing metal roof covering including sislation, timber purlins, etc. | m2 | 445 |
| 3 | Fibre cement ceilings, including cornices, timber brandering, etc.                                   | m2 | 342 |
| 4 | Timber beams   | m  | 32  |
| 5 | Existing asbestos fascia boards  | m  | 64  |
| 6 | Existing asbestos barge boards   | m  | 28  |

**Take out and remove doors, windows etc from brickwork to remain including making good cement plaster on both sides**

|   |  |    |   |
|---|--|----|---|
| 7 | Timber single door 813 x 2032mm high overall | No | 4 |
|---|--|----|---|

**Carried Forward**

R

Section No. 3  
Bill No. 1  
Alterations

**Brought Forward**

R

**Taking out/off and removing glass and mirrors**

8 Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere measured) m2 18

**Take out and remove ironmongery**

9 Remove existing damaged brass stay handle bolted / screwed to existing window No 20

**Taking out/off and removing joinery work**

10 Wall mounted pin board 4800 x 1140mm high No 4

**Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc**

11 30mm Screed from floors in patches m2 68

**PREPARATORY WORK TO EXISTING SURFACES**

**Preparatory work**

12 Making good to defects in concrete floors with "Sika" or other approved m2 68

**Carried Forward to Summary of Section No. 3**

R

Section No. 3  
Bill No. 1  
Alterations

Item  
No

Quantity

Rate

Amount

**BILL NO. 2**

**ROOF COVERINGS**

**PREAMBLES**

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

**SUPPLEMENTARY PREAMBLES**

**SHEETING**

Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards

**SAFETY**

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

**INSTALLATION**

Every precaution shall be taken to prevent damage to

**Carried Forward**

R

Section No. 3  
Bill No. 2  
Roof Coverings

**Brought Forward**

roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.

**HANDLING AND STORAGE**

The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

**INSPECTION PRIOR TO INSTALLATION**

Before commencing installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
- b. Purlins and girths are at the correct spacing and are within the specified tolerances.
- c. The corners of the roof are square and the wall framework is perpendicular or as specified.
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- g. The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be

**Carried Forward**

Section No. 3  
Bill No. 2  
Roof Coverings

R

R

**Brought Forward**

inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

R

**PROTRUSION THROUGH SHEETED SURFACES**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

**GUARANTEE**

The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.

**PROFILED METAL SHEETING AND ACCESSORIES**

**"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins**

1 Roof covering with pitch not exceeding 25 degrees m2 445

**Sundries**

2 Ridge flashings 550mm girth m 32

**ROOF AND WALL INSULATION**

**Carried Forward**

R

Section No. 3  
Bill No. 2  
Roof Coverings

**Brought Forward**

**"Sisalation 410" housing grade glass fibre  
reinforced aluminium foil bonded insulation**

3 Insulation laid taut over purlins (at approximately 1  
100mm centres) and fixed concurrent with roof covering  
including galvanised steel straining wires

m2

445

R

**Carried Forward to Summary of Section No. 3**

Section No. 3  
Bill No. 2  
Roof Coverings

R



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 3</u></b>   |          |      |        |
|         | <b><u>CARPENTRY AND JOINERY</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>   |          |      |        |
|         | <b><u>Sawn softwood</u></b>  |          |      |        |
| 1       | 50 x 75mm Purlins  | m        | 437  |        |
|         | <b><u>Laminated Wrot Saligna</u></b>   |          |      |        |
| 2       | 76 x 228mm Beams fixed to existing metal post  | m        | 32   |        |
|         | <b><u>EAVES, VERGES ETC</u></b>  |          |      |        |
|         | <b><u>"Everite Nutec" or other equally approved medium density pressed fibre-cement</u></b>  |          |      |        |
| 3       | 15 x 255mm Fascias, including galvanised steel H-profile joiners   | m        | 64   |        |
| 4       | 80 x 275mm Angle section barge board, including galvanised steel H-profile joiners   | m        | 28   |        |
|         | <b><u>FRAMED DOORS ETC</u></b>   |          |      |        |
|         | <b><u>Wrought meranti doors hung to wooden frames</u></b>  |          |      |        |
| 5       | 40mm Framed, ledged and batten door 813 x 2032mm x 44mm ply backed hardwood door. Tenderers are referred to Architect's drawings annexured to these Bills of Quantities for the full description of the door   | No       | 4    |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 3<br>Bill No. 3<br>Carpentry and Joinery   |          |      |        |

**Brought Forward**

R

**PINNING BOARDS**

**Tempered hardboard**

|   |   |    |    |
|---|---|----|----|
| 6 | 3mm Backboard plugged and screwed to walls at edges with brass screws and cup washers at 450mm centres. | m2 | 22 |
|---|---|----|----|

**"9mm Van Dyck" PFX Satin Shield staple bire or other approved**

|   |   |    |    |
|---|---|----|----|
| 7 | Pinning board fixed to walls with an approved adhesive (timber surround elsewhere measured) | m2 | 22 |
|---|---|----|----|

**Wrot Meranti**

|   |   |   |    |
|---|---|---|----|
| 8 | 19 x 69mm Once rebated and arris rounded pinning board surround with mitred corners, plugged and screwed to walls with counter sunk brass screws and cupped washers | m | 52 |
|---|---|---|----|

**BUDGETARY ALLOWANCES**

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

|   |  |      |          |
|---|--|------|----------|
| 9 | Allow the sum of R4,000.00 for ironmongery | Item | 4,000.00 |
|---|--|------|----------|

**Carried Forward to Summary of Section No. 3**

Section No. 3  
 Bill No. 3  
 Carpentry and Joinery

R

| Item No | <b><u>BILL NO. 4</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>METALWORK</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>   |          |      |        |
|         | <b><u>1,2mm Double rebated frames suitable for one brick walls fitted with three hinges</u></b>  |          |      |        |
| 1       | Frame for door 813 x 2032mm high.  | No       | 4    |        |
|         | <b><u>HOT DIPPED GALVANISED SUNDRY STEELWORK</u></b>   |          |      |        |
|         | <b><u>Brackets etc. to roof timber, benches, shelvings etc.</u></b>  |          |      |        |
|         | <b><u>Posts etc.</u></b>   |          |      |        |
| 2       | 100 x 100 x 5mm Hollow section post 2700mm high with 200 x 200 x 10mm base plate welded to one end and purpose made U shaped bracket to suit 76 x 228mm high beam with and including 3 No. 8mm diameter holes pre-drilled on both sides for fixing of beam to other end.                     | No       | 4    |        |
|         | <b><u>SUNDRIES</u></b>   |          |      |        |
| 3       | "H-Systems" or other approved brass stay handle bolted / screwed to existing window  | No       | 20   |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>   |          |      |        |
|         | Section No. 3  |          |      |        |
|         | Bill No. 4   |          |      |        |
|         | Metalworks   |          |      |        |
|         |  |          |      | R      |

Item  
No

Quantity

Rate

Amount

**BILL NO. 5**

**CEILING PARTITIONS AND ACCESS  
FLOORING**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

Openings in ceilings for light fittings etc. are to include for additional suspension as required

**Fixings**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork, brickwork 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

**Ceilings**

Unless otherwise described ceilings shall be deemed to be horizontal

**Carried Forward**

R

Section No. 3  
Bill No. 5  
Ceilings, Partitions and Access Flooring

**Brought Forward**

R

**Insulation**

Insulation laid on the ceiling ensuring that it fits tightly between the tie beams.

Insulation should be cut 50mm more than distance between the tie beams. Cut insulation out around down lights. Cut Insulation out around trap doors.

Fix the cut section to the back of the trap door using a good quality contact adhesive. Wrap insulation around cold and hot water pipes ensuring that there is 10mm overlap. Secure the insulation using a cable tie at 300mm centres

**Steel components**

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

**NAILED-UP CEILINGS**

**9,5mm "Rhino" gypsum plasterboard with taped and skimmed joints**

|   |   |    |     |
|---|---|----|-----|
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres  | m2 | 259 |
| 2 | Extra over ceiling for 600 x 600mm trap door of 42 x 42mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening. | No | 1   |

**6mm "Everite Nutec" fibre-cement boards with white H-type PVC jointing strips**

|   |  |    |    |
|---|--|----|----|
| 3 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres | m2 | 83 |
|---|--|----|----|

**"Rhino" gypsum plasterboard cornices**

|   |   |   |     |
|---|---|---|-----|
| 4 | 75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders | m | 198 |
|---|---|---|-----|

**Carried Forward to Summary of Section No. 3**

R

Section No. 3  
Bill No. 5  
Ceilings, Partitions and Access Flooring

| Item No |   | Quantity | Rate | Amount   |
|---------|---|----------|------|----------|
|         | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds wood floated, on concrete</u></b></p> |          |      |          |
| 1       | 30mm Thick on floors in patches   | m2       | 68   |          |
|         | <p><b>Carried Forward to Summary of Section No. 3</b></p> <p>Section No. 3<br/>Bill No. 6<br/>Plastering</p>  |          |      | <p>R</p> |

| Item No | <b><u>BILL NO. 7</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>PLUMBING AND DRAINAGE</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>RAINWATER DISPOSAL</u></b>   |          |      |        |
|         | <b><u>"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally 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></b> |          |      |        |
| 1       | 125 x 85 x 0.6mm Ogee profile gutter   | m        | 64   |        |
| 2       | Extra over gutter for 100 x 75mm outlet  | No       | 10   |        |
| 3       | Extra over gutter for stop ends  | No       | 4    |        |
|         | <b><u>0.7mm Baked enamel aluminium downpipe including holderbats</u></b>   |          |      |        |
| 4       | 100 x 75mm rainwater pipe  | m        | 40   |        |
| 5       | Extra over rainwater pipe for bend   | No       | 20   |        |
| 6       | Extra over rainwater pipe for shoe   | No       | 10   |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>   |          |      | R      |
|         | Section No. 3<br>Bill No. 7<br>Plumbing and Drainage   |          |      |        |

| Item No | <b><u>BILL NO. 8</u></b>   | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
|         | <b><u>GLAZING</u></b>  |      |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |      |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |      |          |      |        |
|         | 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 |      |          |      |        |
|         | <b><u>GLAZING TO STEEL WITH PUTTY</u></b>  |      |          |      |        |
|         | <b><u>6.3mm Clear float glass</u></b>  |      |          |      |        |
| 1       | Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup>  | m2   | 18       |      |        |
|         | <b>Carried Forward to Summary of Section No. 3</b>   |      |          |      | R      |
|         | Section No. 3<br>Bill No. 8<br>Glazing   |      |          |      |        |



Item  
No

Quantity

Rate

Amount

**BILL NO. 9**

**PAINTWORK**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

Before painting can commence, every problem must be repaired in strict accordance with SECTION 2 - Best painting practice

**SANS Specifications**

Alkali resistant primer - SANS 1416

Wash primer (metal etch) - SANS 1001 - 1

Primers for internal wood work - SANS 678 Type 111

Gloss enamel paint - SANS 630

Undercoat for paints (Except emulsion paint) - SANS 681 Type 1

Aluminium paint - SANS 682 Grade 11

Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)

**ON NEW SURFACES**

**ON PLASTERBOARD SURFACES**

**Carried Forward**

R

Section No. 3  
Bill No. 9  
Paintwork

| Brought Forward  |   |    | R   |
|--|---|----|-----|
| <b><u>"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use</u></b>                         |   |    |     |
| 1  | Ceilings including priming metal cover strips and nailheads | m2 | 259 |
| 2  | 75mm Cornices   | m  | 198 |
| <b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>   |   |    |     |
| <b><u>One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint</u></b>                                     |   |    |     |
| 3  | On ceilings   | m2 | 83  |
| 4  | On fascia and barge boards                                  | m  | 92  |
| <b><u>ON WOOD SURFACES</u></b>   |   |    |     |
| <b><u>"Plascon" or other equally approved primer, one coat alkyd based universal undercoat and two coats professional gloss enamel paint</u></b>                                 |   |    |     |
| 5  | On doors  | m2 | 16  |
| <b><u>Two coats superior quality "Plascon" or other equally approved WoodCare Interior ultra varnish</u></b>   |   |    |     |
| 6  | Skirting, rails, etc. not exceeding 300mm girth             | m  | 52  |
| <b><u>"Plascon" or other approved clear timber protective sealer as per manufacturer's recommendation</u></b>  |   |    |     |
| 7  | On laminated beams  | m2 | 19  |
| <b><u>Two coats Carbolineum</u></b>  |   |    |     |
| 8  | On exposed trusses  | m2 | 38  |
| <b><u>ON METAL SURFACES</u></b>  |   |    |     |
| <b><u>"Plascon" or other equally approved one coat red oxideon primer, one coat alkyd based universal undercoat and two coats professional gloss enamel (PBS 1000) paint</u></b> |   |    |     |
| 9  | On door frames  | m2 | 9   |
| <b>Carried Forward to Summary of Section No. 3</b>   |   |    | R   |
| Section No. 3  |   |    |     |
| Bill No. 9   |   |    |     |
| Paintwork  |   |    |     |

| Item No  | Unit | Quantity | Rate | Amount     |
|--|------|----------|------|------------|
| <b><u>BILL NO. 10</u></b>  |      |          |      |            |
| <b><u>PROVISIONAL SUMS</u></b>   |      |          |      |            |
| <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |      |          |      |            |
| <b><u>General</u></b>  |      |          |      |            |
| Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned |      |          |      |            |
| All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned   |      |          |      |            |
| <b><u>ELECTRICAL</u></b>   |      |          |      |            |
| 1  |      |          |      | 157,000.00 |
| Provide an amount of R157,000.00 (One Hundred and Fifty Seven Thousand Rand) for electrical works  |      | Item     |      |            |
| 2  |      |          |      |            |
| Profit on the above item   |      | Item     |      |            |
| 3  |      |          |      |            |
| Attendance on the above item   |      | Item     |      |            |
| <b>Carried Forward to Summary of Section No. 3</b>   |      |          |      | R          |
| Section No. 3<br>Bill No. 10<br>Provisional Sums   |      |          |      |            |

**SECTION SUMMARY - Block B - Four Classrooms Block**

| Bill No |  | Page No | Amount |
|---------|--|---------|--------|
| 1       | Alterations                              | 52      |        |
| 2       | Roof Coverings                           | 56      |        |
| 3       | Carpentry and Joinery                    | 58      |        |
| 4       | Metalworks                               | 59      |        |
| 5       | Ceilings, Partitions and Access Flooring | 61      |        |
| 6       | Plastering                               | 62      |        |
| 7       | Plumbing and Drainage                    | 63      |        |
| 8       | Glazing                                  | 64      |        |
| 9       | Paintwork                                | 66      |        |
| 10      | Provisional Sums                         | 67      |        |

**Carried to Final Summary**

Section No. 3

R

Item  
No

Quantity

Rate

Amount

**SECTION NO. 4**

**BILL NO. 1**

**ALTERATIONS**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

View site

Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

**Carried Forward**

R

Section No. 4  
Bill No. 1  
Alterations

**Brought Forward**

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re-fixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Asbestos work may only be performed subject to prior approval of the Provincial Director, Occupational Health and Safety, department of Labour in writing

Proof of such notification must be applied to the Client prior to work proceeding. All employees must be informed and receive training on aspects such as the contents and scope of the Asbestos Regulations as published in Government Gazette 23108 dated 10 February 2002, the potential risks of exposure to asbestos, precautionary measures employees have to take and all other requirements deemed necessary to provide a safe and healthy environment for all employees as specified by the Asbestos Regulations as indicated above.

Disposal shall be done under strict accordance of the act.

**Carried Forward**

Section No. 4  
Bill No. 1  
Alterations

R

R

**Brought Forward**

R

Contractors will be held responsible for all damage, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the employer. Contractors are to Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or distributed after completion

**REMOVAL OF EXISTING WORK**

**Temporary protection, etc. including removal:**

Contractors will be held responsible for all damages, however caused, to floors, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the Principal Agent

|   |  |    |     |
|---|--|----|-----|
| 1 | Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Principal Agent and make good all work damaged or distributed after completion. (Provisional) | m2 | 445 |
|---|--|----|-----|

**Taking down and removing roofs, floors, panelling, ceilings, partitions, etc**

|   |  |    |     |
|---|--|----|-----|
| 2 | Carefully take out and remove existing metal roof covering including sislation, timber purlins, etc. | m2 | 445 |
| 3 | Fibre cement ceilings, including cornices, timber brandering, etc.                                   | m2 | 342 |
| 4 | Timber beams   | m  | 32  |
| 5 | Existing asbestos fascia boards  | m  | 64  |
| 6 | Existing asbestos barge boards   | m  | 28  |

**Take out and remove doors, windows etc from brickwork to remain including making good cement plaster on both sides**

|   |  |    |   |
|---|--|----|---|
| 7 | Timber single door 813 x 2032mm high overall | No | 4 |
|---|--|----|---|

**Carried Forward**

R

Section No. 4  
Bill No. 1  
Alterations

**Brought Forward**

R

**Taking out/off and removing glass and mirrors**

8 Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere measured) m2 22

**Take out and remove ironmongery**

9 Remove existing damaged brass stay handle bolted / screwed to existing window No 20

**Taking out/off and removing joinery work**

10 Wall mounted pin board 4800 x 1140mm high No 4

**Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc**

11 30mm Screed from floors in patches m2 75

**PREPARATORY WORK TO EXISTING SURFACES**

**Preparatory work**

12 Making good to defects in concrete floors with "Sika" or other approved m2 75

**Carried Forward to Summary of Section No. 4**

Section No. 4  
Bill No. 1  
Alterations

R



Item  
No

Quantity

Rate

Amount

**BILL NO. 2**

**ROOF COVERINGS**

**PREAMBLES**

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

**SUPPLEMENTARY PREAMBLES**

**SHEETING**

Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards

**SAFETY**

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

**INSTALLATION**

Every precaution shall be taken to prevent damage to

**Carried Forward**

R

Section No. 4  
Bill No. 2  
Roof Coverings

**Brought Forward**

roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.

**HANDLING AND STORAGE**

The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

**INSPECTION PRIOR TO INSTALLATION**

Before commencing installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
- b. Purlins and girths are at the correct spacing and are within the specified tolerances.
- c. The corners of the roof are square and the wall framework is perpendicular or as specified.
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- g. The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be

**Carried Forward**

Section No. 4  
Bill No. 2  
Roof Coverings

R

R

**Brought Forward**

inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

R

**PROTRUSION THROUGH SHEETED SURFACES**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

**GUARANTEE**

The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.

**PROFILED METAL SHEETING AND ACCESSORIES**

**"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins**

1 Roof covering with pitch not exceeding 25 degrees m2 445

**Sundries**

2 Ridge flashings 550mm girth m 32

**ROOF AND WALL INSULATION**

**Carried Forward**

R

Section No. 4  
Bill No. 2  
Roof Coverings

**Brought Forward**

**"Sisalation 410" housing grade glass fibre  
reinforced aluminium foil bonded insulation**

3 Insulation laid taut over purlins (at approximately 1  
100mm centres) and fixed concurrent with roof covering  
including galvanised steel straining wires

m2

445

R

**Carried Forward to Summary of Section No. 4**

Section No. 4  
Bill No. 2  
Roof Coverings

R

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 3</u></b>   |          |      |        |
|         | <b><u>CARPENTRY AND JOINERY</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>   |          |      |        |
|         | <b><u>Sawn softwood</u></b>  |          |      |        |
| 1       | 50 x 75mm Purlins  | m        | 437  |        |
|         | <b><u>Laminated Wrot Saligna</u></b>   |          |      |        |
| 2       | 76 x 228mm Beams fixed to existing metal post  | m        | 32   |        |
|         | <b><u>EAVES, VERGES ETC</u></b>  |          |      |        |
|         | <b><u>"Everite Nutec" or other equally approved medium density pressed fibre-cement</u></b>  |          |      |        |
| 3       | 15 x 255mm Fascias, including galvanised steel H-profile joiners   | m        | 64   |        |
| 4       | 80 x 275mm Angle section barge board, including galvanised steel H-profile joiners   | m        | 28   |        |
|         | <b><u>FRAMED DOORS ETC</u></b>   |          |      |        |
|         | <b><u>Wrought meranti doors hung to wooden frames</u></b>  |          |      |        |
| 5       | 40mm Framed, ledged and batten door 813 x 2032mm x 44mm ply backed hardwood door. Tenderers are referred to Architect's drawings annexured to these Bills of Quantities for the full description of the door   | No       | 4    |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 4<br>Bill No. 3<br>Carpentry and Joinery   |          |      |        |

**Brought Forward**

R

**PINNING BOARDS**

**Tempered hardboard**

|   |   |    |    |
|---|---|----|----|
| 6 | 3mm Backboard plugged and screwed to walls at edges with brass screws and cup washers at 450mm centres. | m2 | 22 |
|---|---|----|----|

**"9mm Van Dyck" PFX Satin Shield staple bire or other approved**

|   |   |    |    |
|---|---|----|----|
| 7 | Pinning board fixed to walls with an approved adhesive (timber surround elsewhere measured) | m2 | 22 |
|---|---|----|----|

**Wrot Meranti**

|   |   |   |    |
|---|---|---|----|
| 8 | 19 x 69mm Once rebated and arris rounded pinning board surround with mitred corners, plugged and screwed to walls with counter sunk brass screws and cupped washers | m | 52 |
|---|---|---|----|

**BUDGETARY ALLOWANCES**

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

|   |  |      |          |
|---|--|------|----------|
| 9 | Allow the sum of R4,000.00 for ironmongery | Item | 4,000.00 |
|---|--|------|----------|

**Carried Forward to Summary of Section No. 4**

Section No. 4  
 Bill No. 3  
 Carpentry and Joinery

R

| Item No | <b><u>BILL NO. 4</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>METALWORK</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>   |          |      |        |
|         | <b><u>1,2mm Double rebated frames suitable for one brick walls fitted with three hinges</u></b>  |          |      |        |
| 1       | Frame for door 813 x 2032mm high.  | No       | 4    |        |
|         | <b><u>HOT DIPPED GALVANISED SUNDRY STEELWORK</u></b>   |          |      |        |
|         | <b><u>Brackets etc. to roof timber, benches, shelvings etc.</u></b>  |          |      |        |
|         | <b><u>Posts etc.</u></b>   |          |      |        |
| 2       | 100 x 100 x 5mm Hollow section post 2700mm high with 200 x 200 x 10mm base plate welded to one end and purpose made U shaped bracket to suit 76 x 228mm high beam with and including 3 No. 8mm diameter holes pre-drilled on both sides for fixing of beam to other end.                     | No       | 4    |        |
|         | <b><u>SUNDRIES</u></b>   |          |      |        |
| 3       | "H-Systems" or other approved brass stay handle bolted / screwed to existing window  | No       | 20   |        |
|         | <b>Carried Forward to Summary of Section No. 4</b>   |          |      | R      |
|         | Section No. 4<br>Bill No. 4<br>Metalworks  |          |      |        |

Item  
No

Quantity

Rate

Amount

**BILL NO. 5**

**CEILING PARTITIONS AND ACCESS  
FLOORING**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

Openings in ceilings for light fittings etc. are to include for additional suspension as required

**Fixings**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork, brickwork 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

**Ceilings**

Unless otherwise described ceilings shall be deemed to be horizontal

**Carried Forward**

R

Section No. 4  
Bill No. 5  
Ceilings, Partitions and Access Flooring



**Brought Forward**

R

**Insulation**

Insulation laid on the ceiling ensuring that it fits tightly between the tie beams.

Insulation should be cut 50mm more than distance between the tie beams. Cut insulation out around down lights. Cut Insulation out around trap doors.

Fix the cut section to the back of the trap door using a good quality contact adhesive. Wrap insulation around cold and hot water pipes ensuring that there is 10mm overlap. Secure the insulation using a cable tie at 300mm centres

**Steel components**

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

**NAILED-UP CEILINGS**

**9,5mm "Rhino" gypsum plasterboard with taped and skimmed joints**

|   |   |    |     |
|---|---|----|-----|
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres  | m2 | 259 |
| 2 | Extra over ceiling for 600 x 600mm trap door of 42 x 42mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening. | No | 1   |

**6mm "Everite Nutec" fibre-cement boards with white H-type PVC jointing strips**

|   |  |    |    |
|---|--|----|----|
| 3 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres | m2 | 83 |
|---|--|----|----|

**"Rhino" gypsum plasterboard cornices**

|   |   |   |     |
|---|---|---|-----|
| 4 | 75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders | m | 198 |
|---|---|---|-----|

**Carried Forward to Summary of Section No. 4**

Section No. 4  
Bill No. 5  
Ceilings, Partitions and Access Flooring

R

| Item No |   | Quantity | Rate | Amount   |
|---------|---|----------|------|----------|
|         | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds wood floated, on concrete</u></b></p> |          |      |          |
| 1       | 30mm Thick on floors in patches   | m2       | 75   |          |
|         | <p><b>Carried Forward to Summary of Section No. 4</b></p> <p>Section No. 4<br/>Bill No. 6<br/>Plastering</p>  |          |      | <p>R</p> |

| Item No | <b><u>BILL NO. 7</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>PLUMBING AND DRAINAGE</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>RAINWATER DISPOSAL</u></b>   |          |      |        |
|         | <b><u>"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally 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></b> |          |      |        |
| 1       | 125 x 85 x 0.6mm Ogee profile gutter   | m        | 64   |        |
| 2       | Extra over gutter for 100 x 75mm outlet  | No       | 10   |        |
| 3       | Extra over gutter for stop ends  | No       | 4    |        |
|         | <b><u>0.7mm Baked enamel aluminium downpipe including holderbats</u></b>   |          |      |        |
| 4       | 100 x 75mm rainwater pipe  | m        | 40   |        |
| 5       | Extra over rainwater pipe for bend   | No       | 20   |        |
| 6       | Extra over rainwater pipe for shoe   | No       | 10   |        |
|         | <b>Carried Forward to Summary of Section No. 4</b>   |          |      | R      |
|         | Section No. 4<br>Bill No. 7<br>Plumbing and Drainage   |          |      |        |

| Item No | <b><u>BILL NO. 8</u></b>   | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
|         | <b><u>GLAZING</u></b>  |      |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |      |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |      |          |      |        |
|         | 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 |      |          |      |        |
|         | <b><u>GLAZING TO STEEL WITH PUTTY</u></b>  |      |          |      |        |
|         | <b><u>6.3mm Clear float glass</u></b>  |      |          |      |        |
| 1       | Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup>  | m2   | 22       |      |        |
|         | <b>Carried Forward to Summary of Section No. 4</b>   |      |          |      | R      |
|         | Section No. 4<br>Bill No. 8<br>Glazing   |      |          |      |        |

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 9</u></b></p> <p><b><u>PAINTWORK</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p>Before painting can commence, every problem must be repaired in strict accordance with SECTION 2 - Best painting practice</p> <p><b><u>SANS Specifications</u></b></p> <p>Alkali resistant primer - SANS 1416</p> <p>Wash primer (metal etch) - SANS 1001 - 1</p> <p>Primers for internal wood work - SANS 678 Type 111</p> <p>Gloss enamel paint - SANS 630</p> <p>Undercoat for paints (Except emulsion paint) - SANS 681 Type 1</p> <p>Aluminium paint - SANS 682 Grade 11</p> <p>Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)</p> <p><b><u>ON NEW SURFACES</u></b></p> <p><b><u>ON PLASTERBOARD SURFACES</u></b></p> |          |      |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | <p>Section No. 4</p> <p>Bill No. 9</p> <p>Paintwork</p>  |          |      |        |

| Brought Forward  |   |    | R   |
|--|---|----|-----|
| <b><u>"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use</u></b>                         |   |    |     |
| 1  | Ceilings including priming metal cover strips and nailheads | m2 | 259 |
| 2  | 75mm Cornices   | m  | 198 |
| <b><u>ON FIBRE-CEMENT BOARD SURFACES</u></b>   |   |    |     |
| <b><u>One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint</u></b>                                     |   |    |     |
| 3  | On ceilings   | m2 | 83  |
| 4  | On fascia and barge boards                                  | m  | 92  |
| <b><u>ON WOOD SURFACES</u></b>   |   |    |     |
| <b><u>"Plascon" or other equally approved primer, one coat alkyd based universal undercoat and two coats professional gloss enamel paint</u></b>                                 |   |    |     |
| 5  | On doors  | m2 | 16  |
| <b><u>Two coats superior quality "Plascon" or other equally approved WoodCare Interior ultra varnish</u></b>   |   |    |     |
| 6  | Skirting, rails, etc. not exceeding 300mm girth             | m  | 52  |
| <b><u>"Plascon" or other approved clear timber protective sealer as per manufacturer's recommendation</u></b>  |   |    |     |
| 7  | On laminated beams  | m2 | 19  |
| <b><u>Two coats Carbolineum</u></b>  |   |    |     |
| 8  | On exposed trusses  | m2 | 38  |
| <b><u>ON METAL SURFACES</u></b>  |   |    |     |
| <b><u>"Plascon" or other equally approved one coat red oxideon primer, one coat alkyd based universal undercoat and two coats professional gloss enamel (PBS 1000) paint</u></b> |   |    |     |
| 9  | On door frames  | m2 | 9   |
| <b>Carried Forward to Summary of Section No. 4</b>   |   |    | R   |
| Section No. 4  |   |    |     |
| Bill No. 9   |   |    |     |
| Paintwork  |   |    |     |

| Item No | <b><u>BILL NO. 10</u></b>  | Unit | Quantity | Rate | Amount     |
|---------|--|------|----------|------|------------|
|         | <b><u>PROVISIONAL SUMS</u></b>   |      |          |      |            |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |      |          |      |            |
|         | <b><u>General</u></b>  |      |          |      |            |
|         | Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned |      |          |      |            |
|         | All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned   |      |          |      |            |
|         | <b><u>ELECTRICAL</u></b>   |      |          |      |            |
| 1       | Provide an amount of R157,000.00 (One Hundred and Fifty Seven Thousand Rand) for electrical works  |      | Item     |      | 157,000.00 |
| 2       | Profit on the above item   |      | Item     |      |            |
| 3       | Attendance on the above item   |      | Item     |      |            |
|         | <b>Carried Forward to Summary of Section No. 4</b>   |      |          | R    |            |
|         | Section No. 4<br>Bill No. 10<br>Provisional Sums   |      |          |      |            |

**SECTION SUMMARY - Block C - Four Classrooms Block**

| Bill No |  | Page No | Amount |
|---------|--|---------|--------|
| 1       | Alterations                              | 72      |        |
| 2       | Roof Coverings                           | 76      |        |
| 3       | Carpentry and Joinery                    | 78      |        |
| 4       | Metalworks                               | 79      |        |
| 5       | Ceilings, Partitions and Access Flooring | 81      |        |
| 6       | Plastering                               | 82      |        |
| 7       | Plumbing and Drainage                    | 83      |        |
| 8       | Glazing                                  | 84      |        |
| 9       | Paintwork                                | 86      |        |
| 10      | Provisional Sums                         | 87      |        |

**Carried to Final Summary**

Section No. 4

R



Item  
No

Quantity

Rate

Amount

**SECTION NO. 5**

**BILL NO. 1**

**ALTERATIONS**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**SUPPLEMENTARY PREAMBLES**

View site

Before submitting his tender the contractor shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials contained in the buildings or portions of the buildings to be demolished. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained

General

The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent

Water supply pipes and other piping that may be encountered and found necessary to disconnect or cut, shall be effectually stopped off or grubbed up and removed, and any new connections that may be necessary shall be made with proper fittings, to the satisfaction of the principal agent

**Carried Forward**

R

Section No. 5  
Bill No. 1  
Alterations

**Brought Forward**

Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before re-fixing including taking off, easing and re-hanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and easing, oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately.

Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc

Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc and making good floor and wall finishes to match existing

With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork

Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary

The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)

Asbestos work may only be performed subject to prior approval of the Provincial Director, Occupational Health and Safety, department of Labour in writing

Proof of such notification must be applied to the Client prior to work proceeding. All employees must be informed and receive training on aspects such as the contents and scope of the Asbestos Regulations as published in Government Gazette 23108 dated 10 February 2002, the potential risks of exposure to asbestos, precautionary measures employees have to take and all other requirements deemed necessary to provide a safe and healthy environment for all employees as specified by the Asbestos Regulations as indicated above.

Disposal shall be done under strict accordance of the act.

**Carried Forward**

Section No. 5  
Bill No. 1  
Alterations

R

R

**Brought Forward**

R

Contractors will be held responsible for all damage, however caused, to ceilings, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damage at his own expense to the approval of the employer. Contractors are to Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Employer and make good all work damaged or distributed after completion

**REMOVAL OF EXISTING WORK**

**Temporary protection, etc. including removal:**

Contractors will be held responsible for all damages, however caused, to floors, finishes, etc. inside rooms where the existing roof coverings have been removed and he must make good all damages at his own expense to the approval of the Principal Agent

|   |  |    |     |
|---|--|----|-----|
| 1 | Cover and maintain existing roofs in a perfectly watertight condition during alterations by means of heavy tarpaulins properly secured and maintained in position to the approval of the Principal Agent and make good all work damaged or distributed after completion. (Provisional) | m2 | 445 |
|---|--|----|-----|

**Taking down and removing roofs, floors, panelling, ceilings, partitions, etc**

|   |  |    |     |
|---|--|----|-----|
| 2 | Carefully take out and remove existing metal roof covering including sislation, timber purlins, etc. | m2 | 445 |
| 3 | Fibre cement ceilings, including cornices, timber brandering, etc.                                   | m2 | 342 |
| 4 | Timber beams   | m  | 32  |
| 5 | Existing asbestos fascia boards  | m  | 64  |
| 6 | Existing asbestos barge boards   | m  | 28  |

**Take out and remove doors, windows etc from brickwork to remain including making good cement plaster on both sides**

|   |  |    |   |
|---|--|----|---|
| 7 | Timber single door 813 x 2032mm high overall | No | 4 |
|---|--|----|---|

**Carried Forward**

R

Section No. 5  
Bill No. 1  
Alterations

**Brought Forward**

R

**Taking out/off and removing glass and mirrors**

|   |   |    |    |
|---|---|----|----|
| 8 | Glass from steel windows, including cleaning out rebates and preparing for new glass (new glass elsewhere measured) | m2 | 17 |
|---|---|----|----|

**Take out and remove ironmongery**

|   |   |    |    |
|---|---|----|----|
| 9 | Remove existing damaged brass stay handle bolted / screwed to existing window | No | 20 |
|---|---|----|----|

**Taking out/off and removing joinery work**

|    |   |    |   |
|----|---|----|---|
| 10 | Wall mounted pin board 4800 x 1140mm high | No | 4 |
|----|---|----|---|

**Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screed, plaster, tile finishes, etc**

|    |                                    |    |    |
|----|------------------------------------|----|----|
| 11 | 30mm Screed from floors in patches | m2 | 82 |
|----|------------------------------------|----|----|

**PREPARATORY WORK TO EXISTING SURFACES**

**Preparatory work**

|    |   |    |    |
|----|---|----|----|
| 12 | Making good to defects in concrete floors with "Sika" or other approved | m2 | 82 |
|----|---|----|----|

**Carried Forward to Summary of Section No. 5**

Section No. 5  
 Bill No. 1  
 Alterations

R

Item  
No

Quantity

Rate

Amount

**BILL NO. 2**

**ROOF COVERINGS**

**PREAMBLES**

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

**SUPPLEMENTARY PREAMBLES**

**SHEETING**

Roof pitch to be 15 degrees & 3 degrees. 0,8mm aluminium roof sheeting with pre-painted G4 colortech finish on both sides complete with fixings, ridge flashing and mastic sealant to all side laps supplied by roof manufacture. determine direction of wind before laying sheets. sheets to project a minimum of 50mm beyond purlins at eaves. sheets to be fixed to 76 x 50mm timber purlins at max. of 1250mm centers on prefabricated trusses by engineer at max. of 1250mm centers to be strapped to 114 x 38mm wall plate with 30 x 1.6 x 1600mm long galvanised hoop iron straps built into coursing. Sisalation "RF405" underlay over trusses and under purlins on straining wires. prefabricated cleated roof trusses 114 x 38mm rafters and ties, 114 x 38mm intermediate members as per details hurricane clips be used externally to secure purlins to trusses at eaves overhangs. double wound 2.5mm diameter galvanised wire to secure purlins internally. all exposed roof timber to be painted with 2 coats of ABE provonite, before fixing of roof sheets, fascias and barge boards

**SAFETY**

The contractor shall exercise special care when handling long length sheeting, particularly in windy conditions. Should work be interrupted for any reason, all loose sheeting and incomplete sections must be adequately secured against possible movement by wind and gravity.

**INSTALLATION**

Every precaution shall be taken to prevent damage to

**Carried Forward**

R

Section No. 5  
Bill No. 2  
Roof Coverings

**Brought Forward**

roof sheets during all stages of construction. Duck boards should be used when necessary to protect the sheeting from damage. Sheeting which has become deformed or damaged in any way, should be replaced. Care shall be taken to ensure that no sheeting or flashing will be cut with abrasive disc on roof surfaces in order to prevent steel particles from penetrating coated surfaces.

**HANDLING AND STORAGE**

The contractor shall ensure that all materials used on site for roofing/cladding, be transported, handled and stored in accordance with the manufacturer's recommendations. Material damaged shall be rejected and replaced with undamaged material at the contractor's expense. Repair of damaged material will not generally be permitted. Rates are to include for preventing damage and protecting sheets through all stages of construction.

**INSPECTION PRIOR TO INSTALLATION**

Before commencing installation, the contractor shall verify that the following items have been checked and accepted:

- a. The entire structure or the portion thereof to be sheeted has been correctly aligned, levelled and grouted.
- b. Purlins and girths are at the correct spacing and are within the specified tolerances.
- c. The corners of the roof are square and the wall framework is perpendicular or as specified.
- d. No protrusions such as bolt heads, splice plates, cleats, etc. appear on the face of the framework.
- e. All members to which roofing and cladding are to be fixed in aesthetically sensitive areas are true and square.
- f. Paint and any other materials that may be incompatible with the sheeting, have been painted over or, so dealt with that direct contact with the sheeting is avoided.
- g. The contact faces between the purlins or the girths and the cladding are in the same plane. Should the alignment be

**Carried Forward**

Section No. 5  
Bill No. 2  
Roof Coverings

R

R

**Brought Forward**

inadequate, the contractor shall request instructions from the engineer before proceeding with the fixing of the cladding.

R

**PROTRUSION THROUGH SHEETED SURFACES**

Protrusions such as pipes, ducts and the like, shall be adequately flashed where they pass through the sheeting surface. Where ribs have to be cut away to permit penetration, additional framing is to be installed as required to support the sheeting. Depending on the position of the penetration through the roof, special attention shall be given to back flashing the sheeting to the ridge or point of water entry. In all cases, all cutting and flashings shall be so arranged that adequate provision is made for the drainage of all troughs and corrugations.

**GUARANTEE**

The manufacturer shall comply with ISO 9001:2008 Quality Management System. Klip-Tite™ sheeting shall be laid in strict accordance with the manufacturer's specifications by a GRS contractor. A written and five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer Global Roofing Solutions.

**PROFILED METAL SHEETING AND ACCESSORIES**

**"Global Kliptite" or other equally approved double interlocking concealed fix, 0.8mm spelter galvanised sheet steel and accessories, fixed to timber purlins**

1 Roof covering with pitch not exceeding 25 degrees m2 445

**Sundries**

2 Ridge flashings 550mm girth m 32

**ROOF AND WALL INSULATION**

**Carried Forward**

R

Section No. 5  
Bill No. 2  
Roof Coverings

**Brought Forward**

**"Sisalation 410" housing grade glass fibre  
reinforced aluminium foil bonded insulation**

3 Insulation laid taut over purlins (at approximately 1  
100mm centres) and fixed concurrent with roof covering  
including galvanised steel straining wires

m2

445

R

**Carried Forward to Summary of Section No. 5**

Section No. 5  
Bill No. 2  
Roof Coverings

R



| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 3</u></b>   |          |      |        |
|         | <b><u>CARPENTRY AND JOINERY</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>PREFABRICATED ROOF TRUSSES, ETC.</u></b>   |          |      |        |
|         | <b><u>Sawn softwood</u></b>  |          |      |        |
| 1       | 50 x 75mm Purlins  | m        | 437  |        |
|         | <b><u>Laminated Wrot Saligna</u></b>   |          |      |        |
| 2       | 76 x 228mm Beams fixed to existing metal post  | m        | 32   |        |
|         | <b><u>EAVES, VERGES ETC</u></b>  |          |      |        |
|         | <b><u>"Everite Nutec" or other equally approved medium density pressed fibre-cement</u></b>  |          |      |        |
| 3       | 15 x 255mm Fascias, including galvanised steel H-profile joiners   | m        | 64   |        |
| 4       | 80 x 275mm Angle section barge board, including galvanised steel H-profile joiners   | m        | 28   |        |
|         | <b><u>FRAMED DOORS ETC</u></b>   |          |      |        |
|         | <b><u>Wrought meranti doors hung to wooden frames</u></b>  |          |      |        |
| 5       | 40mm Framed, ledged and batten door 813 x 2032mm x 44mm ply backed hardwood door. Tenderers are referred to Architect's drawings annexured to these Bills of Quantities for the full description of the door   | No       | 4    |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 5<br>Bill No. 3<br>Carpentry and Joinery   |          |      |        |

**Brought Forward**

R

**PINNING BOARDS**

**Tempered hardboard**

|   |   |    |    |
|---|---|----|----|
| 6 | 3mm Backboard plugged and screwed to walls at edges with brass screws and cup washers at 450mm centres. | m2 | 22 |
|---|---|----|----|

**"9mm Van Dyck" PFX Satin Shield staple bire or other approved**

|   |   |    |    |
|---|---|----|----|
| 7 | Pinning board fixed to walls with an approved adhesive (timber surround elsewhere measured) | m2 | 22 |
|---|---|----|----|

**Wrot Meranti**

|   |   |   |    |
|---|---|---|----|
| 8 | 19 x 69mm Once rebated and arris rounded pinning board surround with mitred corners, plugged and screwed to walls with counter sunk brass screws and cupped washers | m | 52 |
|---|---|---|----|

**BUDGETARY ALLOWANCES**

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

|   |  |      |          |
|---|--|------|----------|
| 9 | Allow the sum of R4,000.00 for ironmongery | Item | 4,000.00 |
|---|--|------|----------|

**Carried Forward to Summary of Section No. 5**

Section No. 5  
 Bill No. 3  
 Carpentry and Joinery

R

| Item No | <b><u>BILL NO. 4</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>METALWORK</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>GALVANISED PRESSED STEEL DOOR FRAMES</u></b>   |          |      |        |
|         | <b><u>1,2mm Double rebated frames suitable for one brick walls fitted with three hinges</u></b>  |          |      |        |
| 1       | Frame for door 813 x 2032mm high.  | No       | 4    |        |
|         | <b><u>HOT DIPPED GALVANISED SUNDRY STEELWORK</u></b>   |          |      |        |
|         | <b><u>Brackets etc. to roof timber, benches, shelvings etc.</u></b>  |          |      |        |
|         | <b><u>Posts etc.</u></b>   |          |      |        |
| 2       | 100 x 100 x 5mm Hollow section post 2700mm high with 200 x 200 x 10mm base plate welded to one end and purpose made U shaped bracket to suit 76 x 228mm high beam with and including 3 No. 8mm diameter holes pre-drilled on both sides for fixing of beam to other end.                     | No       | 4    |        |
|         | <b><u>SUNDRIES</u></b>   |          |      |        |
| 3       | "H-Systems" or other approved brass stay handle bolted / screwed to existing window  | No       | 20   |        |
|         | <b>Carried Forward to Summary of Section No. 5</b>   |          |      |        |
|         | Section No. 5  |          |      |        |
|         | Bill No. 4   |          |      |        |
|         | Metalworks   |          |      |        |
|         |  |          |      | R      |

| Item No   | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><b><u>BILL NO. 5</u></b></p>   |          |      |        |
| <p><b><u>CEILING PARTITIONS AND ACCESS FLOORING</u></b></p>   |          |      |        |
| <p><b><u>PREAMBLES</u></b></p>  |          |      |        |
| <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p>  |          |      |        |
| <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> |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>  |          |      |        |
| <p>Openings in ceilings for light fittings etc. are to include for additional suspension as required</p>  |          |      |        |
| <p><b><u>Fixings</u></b></p>  |          |      |        |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pinned to blockwork, brickwork or concrete.</p>  |          |      |        |
| <p>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</p>   |          |      |        |
| <p><b><u>Ceilings</u></b></p>   |          |      |        |
| <p>Unless otherwise described ceilings shall be deemed to be horizontal</p>   |          |      |        |
| <p><b>Carried Forward</b></p>   |          |      |        |
| <p>Section No. 5<br/>Bill No. 5<br/>Ceilings, Partitions and Access Flooring</p>  |          |      |        |
|   |          |      | R      |

**Brought Forward**

R

**Insulation**

Insulation laid on the ceiling ensuring that it fits tightly between the tie beams.

Insulation should be cut 50mm more than distance between the tie beams. Cut insulation out around down lights. Cut Insulation out around trap doors.

Fix the cut section to the back of the trap door using a good quality contact adhesive. Wrap insulation around cold and hot water pipes ensuring that there is 10mm overlap. Secure the insulation using a cable tie at 300mm centres

**Steel components**

All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121

**NAILED-UP CEILINGS**

**9,5mm "Rhino" gypsum plasterboard with taped and skimmed joints**

|   |   |    |     |
|---|---|----|-----|
| 1 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres  | m2 | 259 |
| 2 | Extra over ceiling for 600 x 600mm trap door of 42 x 42mm wrought softwood rebated framing with one 38 x 50mm sawn softwood cross brander covered with ceiling board and fitted flush in opening. | No | 1   |

**6mm "Everite Nutec" fibre-cement boards with white H-type PVC jointing strips**

|   |  |    |    |
|---|--|----|----|
| 3 | Ceilings including 38 x 38mm sawn softwood brandering at 400mm centres | m2 | 83 |
|---|--|----|----|

**"Rhino" gypsum plasterboard cornices**

|   |   |   |     |
|---|---|---|-----|
| 4 | 75mm Coved cornices mitred at corners with splayed heading joints and bed with Rhinobed gypsum plaster and spiked to branders | m | 198 |
|---|---|---|-----|

**Carried Forward to Summary of Section No. 5**

R

Section No. 5  
Bill No. 5  
Ceilings, Partitions and Access Flooring

| Item No |   | Quantity | Rate | Amount   |
|---------|---|----------|------|----------|
|         | <p><b><u>BILL NO. 6</u></b></p> <p><b><u>PLASTERING</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>SCREEDS</u></b></p> <p><b><u>Screeds wood floated, on concrete</u></b></p> |          |      |          |
| 1       | 30mm Thick on floors in patches   | m2       | 82   |          |
|         | <p><b>Carried Forward to Summary of Section No. 5</b></p> <p>Section No. 5<br/>Bill No. 6<br/>Plastering</p>  |          |      | <p>R</p> |

| Item No | <b><u>BILL NO. 7</u></b>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>PLUMBING AND DRAINAGE</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |          |      |        |
|         | 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   |          |      |        |
|         | <b><u>RAINWATER DISPOSAL</u></b>   |          |      |        |
|         | <b><u>"Ogee profile aluminium H3003h 14" or other equally approved seamless gutter in marble white colour with and including matching rivet fixed mitres and end caps internally sealed using "Sika" or other equally 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></b> |          |      |        |
| 1       | 125 x 85 x 0.6mm Ogee profile gutter   | m        | 64   |        |
| 2       | Extra over gutter for 100 x 75mm outlet  | No       | 10   |        |
| 3       | Extra over gutter for stop ends  | No       | 4    |        |
|         | <b><u>0.7mm Baked enamel aluminium downpipe including holderbats</u></b>   |          |      |        |
| 4       | 100 x 75mm rainwater pipe  | m        | 40   |        |
| 5       | Extra over rainwater pipe for bend   | No       | 20   |        |
| 6       | Extra over rainwater pipe for shoe   | No       | 10   |        |
|         | <b>Carried Forward to Summary of Section No. 5</b>   |          |      | R      |
|         | Section No. 5<br>Bill No. 7<br>Plumbing and Drainage   |          |      |        |

| Item No | <b><u>BILL NO. 8</u></b>   | Unit | Quantity | Rate | Amount |
|---------|--|------|----------|------|--------|
|         | <b><u>GLAZING</u></b>  |      |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |      |          |      |        |
|         | Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section  |      |          |      |        |
|         | 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 |      |          |      |        |
|         | <b><u>GLAZING TO STEEL WITH PUTTY</u></b>  |      |          |      |        |
|         | <b><u>6.3mm Clear float glass</u></b>  |      |          |      |        |
| 1       | Panes exceeding 0,1m <sup>2</sup> and not exceeding 0,5m <sup>2</sup>  | m2   | 17       |      |        |
|         | <b>Carried Forward to Summary of Section No. 5</b>   |      |          |      | R      |
|         | Section No. 5<br>Bill No. 8<br>Glazing   |      |          |      |        |



Item  
No

Quantity

Rate

Amount

**BILL NO. 9**

**PAINTWORK**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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**SUPPLEMENTARY PREAMBLES**

Before painting can commence, every problem must be repaired in strict accordance with SECTION 2 - Best painting practice

**SANS Specifications**

Alkali resistant primer - SANS 1416

Wash primer (metal etch) - SANS 1001 - 1

Primers for internal wood work - SANS 678 Type 111

Gloss enamel paint - SANS 630

Undercoat for paints (Except emulsion paint) - SANS 681 Type 1

Aluminium paint - SANS 682 Grade 11

Emulsion paint - SANS 1586 (Gloss, Semi gloss, Matt : Internal /External)

**ON NEW SURFACES**

**ON PLASTERBOARD SURFACES**

**Carried Forward**

R

Section No. 5  
Bill No. 9  
Paintwork

**Brought Forward**

R

**"Plascon" or other equally approved gypsum and plaster primer (PP700) and two coats professional super matt (PEM 900/TSA) for interior use**

|   |   |    |     |
|---|---|----|-----|
| 1 | Ceilings including priming metal cover strips and nailheads | m2 | 259 |
| 2 | 75mm Cornices   | m  | 198 |

**ON FIBRE-CEMENT BOARD SURFACES**

**One coat primer, one coat universal undercoat and two coats "Plascon Velvaglo Polyurethane Enamel" or equal and approved paint**

|   |                            |    |    |
|---|----------------------------|----|----|
| 3 | On ceilings                | m2 | 83 |
| 4 | On fascia and barge boards | m  | 92 |

**ON WOOD SURFACES**

**"Plascon" or other equally approved primer, one coat alkyd based universal undercoat and two coats professional gloss enamel paint**

|   |          |    |    |
|---|----------|----|----|
| 5 | On doors | m2 | 16 |
|---|----------|----|----|

**Two coats superior quality "Plascon" or other equally approved WoodCare Interior ultra varnish**

|   |   |   |    |
|---|---|---|----|
| 6 | Skirting, rails, etc. not exceeding 300mm girth | m | 52 |
|---|---|---|----|

**"Plascon" or other approved clear timber protective sealer as per manufacturer's recommendation**

|   |                    |    |    |
|---|--------------------|----|----|
| 7 | On laminated beams | m2 | 19 |
|---|--------------------|----|----|

**Two coats Carbolineum**

|   |                    |    |    |
|---|--------------------|----|----|
| 8 | On exposed trusses | m2 | 38 |
|---|--------------------|----|----|

**ON METAL SURFACES**

**"Plascon" or other equally approved one coat red oxideon primer, one coat alkyd based universal undercoat and two coats professional gloss enamel (PBS 1000) paint**

|   |                |    |   |
|---|----------------|----|---|
| 9 | On door frames | m2 | 9 |
|---|----------------|----|---|

**Carried Forward to Summary of Section No. 5**

Section No. 5  
Bill No. 9  
Paintwork

R

| Item No | <b><u>BILL NO. 10</u></b>  | Unit | Quantity | Rate | Amount     |
|---------|--|------|----------|------|------------|
|         | <b><u>PROVISIONAL SUMS</u></b>   |      |          |      |            |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |      |          |      |            |
|         | <b><u>General</u></b>  |      |          |      |            |
|         | Unless otherwise described, all prime cost amounts and provisional sums exclude the cash discount of 5% and include for delivery to site of all articles concerned |      |          |      |            |
|         | All prime cost amounts and provisional sums are net and include for delivery to site of all articles concerned   |      |          |      |            |
|         | <b><u>ELECTRICAL</u></b>   |      |          |      |            |
| 1       | Provide an amount of R157,000.00 (One Hundred and Fifty Seven Thousand Rand) for electrical works  |      | Item     |      | 157,000.00 |
| 2       | Profit on the above item   |      | Item     |      |            |
| 3       | Attendance on the above item   |      | Item     |      |            |
|         | <b>Carried Forward to Summary of Section No. 5</b>   |      |          | R    |            |
|         | Section No. 5<br>Bill No. 10<br>Provisional Sums   |      |          |      |            |

**SECTION SUMMARY - Block D - Four Classrooms Block**

| Bill No |  | Page No | Amount |
|---------|--|---------|--------|
| 1       | Alterations                              | 92      |        |
| 2       | Roof Coverings                           | 96      |        |
| 3       | Carpentry and Joinery                    | 98      |        |
| 4       | Metalworks                               | 99      |        |
| 5       | Ceilings, Partitions and Access Flooring | 101     |        |
| 6       | Plastering                               | 102     |        |
| 7       | Plumbing and Drainage                    | 103     |        |
| 8       | Glazing                                  | 104     |        |
| 9       | Paintwork                                | 106     |        |
| 10      | Provisional Sums                         | 107     |        |

**Carried to Final Summary**

Section No. 5

R

| Item No |  | Quantity | Rate | Amount    |
|---------|--|----------|------|-----------|
|         | <p><b><u>SECTION NO. 6</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p>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</p> |          |      |           |
| 1       | Allow the sum of R 40,000.00 for servicing and replacing of damaged sanware  | Item     |      | 40,000.00 |
|         | <b>Carried to Final Summary</b>  |          | R    |           |
|         | Section No. 6<br>Bill No. 1<br>Alterations   |          |      |           |

| Item No |  | Quantity | Rate | Amount    |
|---------|--|----------|------|-----------|
|         | <p><b><u>SECTION NO. 7</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p>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</p> |          |      |           |
| 1       | Allow the sum of R 20,000.00 for servicing and replacing of damaged sanware  | Item     |      | 20,000.00 |
|         | <b>Carried to Final Summary</b>  |          | R    |           |
|         | Section No. 7<br>Bill No. 1<br>Alterations   |          |      |           |

| Item No |  | Quantity | Rate | Amount    |
|---------|--|----------|------|-----------|
|         | <p><b><u>SECTION NO. 8</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p>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</p> |          |      |           |
| 1       | Allow the sum of R 20,000.00 for servicing and replacing of damaged sanware  | Item     |      | 20,000.00 |
|         | <b>Carried to Final Summary</b>  |          | R    |           |
|         | Section No. 8<br>Bill No. 1<br>Alterations   |          |      |           |

| Item No |  | Quantity | Rate | Amount    |
|---------|--|----------|------|-----------|
|         | <p><b><u>SECTION NO. 9</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p>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</p> |          |      |           |
| 1       | Allow the sum of R 20,000.00 for servicing and replacing of damaged sanware  | Item     |      | 20,000.00 |
|         | <b>Carried to Final Summary</b>  |          | R    |           |
|         | Section No. 9<br>Bill No. 1<br>Alterations   |          |      |           |



| Item No |   | Quantity | Rate | Amount    |
|---------|---|----------|------|-----------|
|         | <p><b><u>SECTION NO. 10</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ALTERATIONS</u></b></p> <p><b><u>PREAMBLES</u></b></p> <p>Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section</p> <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> <p><b><u>BUDGETARY ALLOWANCES</u></b></p> <p>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</p> |          |      |           |
| 1       | Allow the sum of R 40,000.00 for servicing and replacing of damaged sanware   | Item     |      | 40,000.00 |
|         | <b>Carried to Final Summary</b>   |          | R    |           |
|         | Section No. 10<br>Bill No. 1<br>Alterations   |          |      |           |

Item  
No

Quantity

Rate

Amount

**SECTION NO. 11**

**BILL NO. 1**

**ALTERATIONS**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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**DEMOLITIONS**

**General guide (Demolishing of pit latrines)**

The following is a general guide recommended for demolition of both the Active or Inactive plain pit latrines at schools where adequate and acceptable forms of sanitation facilities have been provided but the old plain pit toilets were not demolished soon after the new infrastructure provisioning.

- a) In order to fully meet the Occupational Health and Safety Act (No. 85 of 1993) as well as the National Environmental Management Act (No. 107 of 1998) it is recommended that pit toilets structures should not in any instances be demolished by hand.
- b) Occupational Health and Safety Act requirements shall be adhered to in terms of safety for the learners, teachers and the public during the demolition process.
  - Thus all necessary cordoning-off of the works area should be adhered to at all times.
  - As far as practically possible, no open

**Carried Forward**

R

Section No. 11  
Bill No. 1  
Alterations

**Brought Forward**

excavations will be left overnight. In the even that it happens, proper and adequate barricading and warning signage shall be put in place.

- The entire area shall be demarcated during the demolition with one person directly and exclusively monitoring that there are no learners near or in the demarcated area.
- c) The demolition and rehabilitation process including the finished rehabilitated site should comply with the National Environmental Management Act requirements.
- d) The demolishing of a structure shall entail the complete breakdown of the above ground structure and the removal of any metal roof cover and the latter and any metal may not be buried.
- e) The below ground pit structure shall be broken down and compacted to such an extent that there are no voids larger than 300x300x300mm.
- f) The entire demolished structure shall be buried under a layer of clean, uncontaminated virgin soil of at least 500mm depth.
- g) Absolutely no material shall be left on site or exposed after completion.
- h) The Contractor shall take pictures at the following milestones:
  - i. Upon arrival at the school of the School name and the main gate.
  - ii. Near and far picture of the structure to be demolished before commencement with signboard showing School name, EMIS number, location and date of work.
  - iii. After demolishing of above ground structure.
  - iv. After demolishing of below ground structure showing clearly demolished

**Carried Forward**

Section No. 11  
Bill No. 1  
Alterations

R

R

**Brought Forward**

material of internal structure and proof that any covering and/or internal masonry work has been properly demolished and compacted and a yardstick showing that all off the debris is at a depth of 500mm or more.

- v. After covering of demolished structure showing clearly clean virgin soil and demarcation of area with sign board in place and absolutely no material left on site.

**Demolish existing unsafe structures**

- 1 Break down and demolish existing buildings complete with roofs, external and internal brick walls, surface beds, etc. digging out and removing foundation walls and footings, and cart away etc. of all rubble and leaving no visible sign of the building ( PIT TOILET ), approximate size 4660 x 2500 x 2500mm high

No

1

R

**Carried to Final Summary**

Section No. 11  
Bill No. 1  
Alterations

R

Item  
No

Quantity

Rate

Amount

**SECTION NO. 12**

**BILL NO. 1**

**ALTERATIONS**

**PREAMBLES**

Tenderers are to refer to the Model Preambles for Trades 2017 as published by the Association of South African Quantity Surveyors and supplementary preambles for further description and amplification of work in this section

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

**DEMOLITIONS**

**General guide (Demolishing of pit latrines)**

The following is a general guide recommended for demolition of both the Active or Inactive plain pit latrines at schools where adequate and acceptable forms of sanitation facilities have been provided but the old plain pit toilets were not demolished soon after the new infrastructure provisioning.

- a) In order to fully meet the Occupational Health and Safety Act (No. 85 of 1993) as well as the National Environmental Management Act (No. 107 of 1998) it is recommended that pit toilets structures should not in any instances be demolished by hand.
- b) Occupational Health and Safety Act requirements shall be adhered to in terms of safety for the learners, teachers and the public during the demolition process.
  - Thus all necessary cordoning-off of the works area should be adhered to at all times.
  - As far as practically possible, no open

**Carried Forward**

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Section No. 12  
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**Brought Forward**

excavations will be left overnight. In the even that it happens, proper and adequate barricading and warning signage shall be put in place.

- The entire area shall be demarcated during the demolition with one person directly and exclusively monitoring that there are no learners near or in the demarcated area.
- c) The demolition and rehabilitation process including the finished rehabilitated site should comply with the National Environmental Management Act requirements.
- d) The demolishing of a structure shall entail the complete breakdown of the above ground structure and the removal of any metal roof cover and the latter and any metal may not be buried.
- e) The below ground pit structure shall be broken down and compacted to such an extent that there are no voids larger than 300x300x300mm.
- f) The entire demolished structure shall be buried under a layer of clean, uncontaminated virgin soil of at least 500mm depth.
- g) Absolutely no material shall be left on site or exposed after completion.
- h) The Contractor shall take pictures at the following milestones:
  - i. Upon arrival at the school of the School name and the main gate.
  - ii. Near and far picture of the structure to be demolished before commencement with signboard showing School name, EMIS number, location and date of work.
  - iii. After demolishing of above ground structure.
  - iv. After demolishing of below ground structure showing clearly demolished

**Carried Forward**

Section No. 12  
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R

R

**Brought Forward**

material of internal structure and proof that any covering and/or internal masonry work has been properly demolished and compacted and a yardstick showing that all off the debris is at a depth of 500mm or more.

- v. After covering of demolished structure showing clearly clean virgin soil and demarcation of area with sign board in place and absolutely no material left on site.

**Demolish existing unsafe structures**

- 1 Break down and demolish existing buildings complete with roofs, external and internal brick walls, surface beds, etc. digging out and removing foundation walls and footings, and cart away etc. of all rubble and leaving no visible sign of the building ( PIT TOILET ), approximate size 4660 x 2500 x 2500mm high

No

1

R

**Carried to Final Summary**

Section No. 12  
Bill No. 1  
Alterations

R

| Item No |  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>SECTION NO. 13</u></b>   |          |      |        |
|         | <b><u>BILL NO. 1</u></b>   |          |      |        |
|         | <b><u>EXTERNAL WORKS (ALL TRADES)</u></b>  |          |      |        |
|         | <b><u>PREAMBLES</u></b>  |          |      |        |
|         | 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 |          |      |        |
|         | <b><u>THE FOLLOWING IN V-DRAINS</u></b>  |          |      |        |
|         | <b><u>Earthworks</u></b>   |          |      |        |
| 1       | Excavate in earth to reduce levels   | m3       | 64   |        |
| 2       | Extra over on excavations for surplus material from excavations and/or stock piles to an approved dumping site located by the contractor   | m3       | 64   |        |
| 3       | Backfilling with G5 material under bases supplied and carted onto site by the Contractor all in accordance with SABS 1200Dm compacted in layers of 150mm to 93% Mod. AASHTO maximum density  | m3       | 32   |        |
| 4       | Compaction of ground surface under aprons including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 97% Mod. AASHTO density   | m2       | 214  |        |
| 5       | Approved brand of anti-termite soil poison applied by a registered pest control company and guaranteed against termite infestation for ten years under floors etc. including forming and poisoning shallow furrows against foundation walls etc., filling in furrows and ramming             | m2       | 214  |        |
| 6       | Modified AASHTO Density tests on fillings as pointed out by the Engineer on site to the approval of the Project Manager.   | No       | 5    |        |
|         | <b><u>Concrete, Formwork &amp; Reinforcement</u></b>   |          |      |        |
| 7       | Reinforced concrete 30MPa/19mm in v-drains   | m3       | 32   |        |
|         | <b>Carried Forward</b>   |          |      | R      |
|         | Section No. 13<br>Bill No. 1<br>External Works   |          |      |        |



| <b>Brought Forward</b>  |   |      | R          |
|---|---|------|------------|
| 8   | Making and testing 150 x 150 x 150mm concrete strength test cube (Provisional).                   | No   | 5          |
| 9   | Finishing top surfaces of concrete v-drains smooth with a steel trowel to falls                   | m2   | 214        |
| 10  | 10 x 10mm In horizontal expansion joints including raking out expansion joint filler as necessary | m    | 311        |
| <b><u>Fabric reinforcement</u></b>  |   |      |            |
| 11  | Type 395 fabric reinforcement in aprons and v-drains  | m2   | 214        |
| <b><u>Waterproofing</u></b>   |   |      |            |
| <b><u>Joint sealants, etc.</u></b>  |   |      |            |
| 12  | 10 x 10mm In vertical expansion joints including raking out expansion joint filler as necessary   | m    | 311        |
| <b><u>BUDGETARY ALLOWANCES</u></b>  |   |      |            |
| 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 |   |      |            |
| 13  | Allow the sum of R150,000.00 for re-instating of borehole   | Item | 150,000.00 |
| <b>Carried to Final Summary</b>   |   |      | R          |
| Section No. 13<br>Bill No. 1<br>External Works  |   |      |            |

| Section No | <b><u>FINAL SUMMARY</u></b>  | Page No | Amount     |
|------------|--|---------|------------|
| 1          | Preliminaries and General  | 28      |            |
| 2          | Block A - Four Classrooms Block  | 48      |            |
| 3          | Block B - Four Classrooms Block  | 68      |            |
| 4          | Block C - Four Classrooms Block  | 88      |            |
| 5          | Block D - Four Classrooms Block  | 108     |            |
| 6          | Block T1a - Pit Toilets  | 109     |            |
| 7          | Block T1b - Pit Toilets  | 110     |            |
| 8          | Block T1c - Pit Toilets  | 111     |            |
| 9          | Block T1d - Pit Toilets  | 112     |            |
| 10         | Block T1e - Pit Toilets  | 113     |            |
| 11         | Block T2a - Pit Toilets  | 116     |            |
| 12         | Block T2b - Pit Toilets  | 119     |            |
| 13         | External Works   | 121     |            |
|            | Sub Total  |         | R          |
|            | <b><u>ADD: COMMUNITY LIAISON OFFICER</u></b>   |         |            |
|            | Allow the sum of R 45 000.00 (Forty Five Thousand Rand) per month for Community Liaison Officer for a period of 6 Months   | Item    | 45,000.00  |
|            | <b>Sub - Total</b>   |         | R          |
|            | Add Contingency: Sum of R 200 000.00 (Two Hundred Thousand Rand) - Amount to be utilised upon written approval by Independent Development Trust and to be deducted in whole or in part if not required | Item    | 200,000.00 |
|            | Sub-Total  |         | R          |
|            | Value Added Tax (15%)  |         | R          |
|            | <b>Carried to Form of Tender</b>   |         | R          |