

**DBN26/02/01: DEPARTMENT OF JUSTICE: VULAMEHLO**  
**MAGISTRATE COURT: REPAIRS & RENOVATIONS OF OFFICE**  
**BUILDING: COMPLETION CONTRACT**

**VOLUME 2 (F): RETURNABLE DOCUMENTS**

**REPUBLIC OF SOUTH AFRICA  
DEPARTMENT OF PUBLIC WORKS  
BILLS OF QUANTITIES  
FOR  
VULAMEHLO MAGISTRATES COURT: REPAIRS AND RENOVATIONS OF THE  
OFFICE BUILDING COMPLETION CONTRACT  
TENDER NO.: 26/02/01**

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**T2.2 RETURNABLE SCHEDULES:  
OTHER DOCUMENTS TO BE INCORPORATED INTO  
THE CONTRACT**

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**REPUBLIC OF SOUTH AFRICA  
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BILLS OF QUANTITIES  
FOR  
VULAMEHLO MAGISTRATES COURT: REPAIRS AND RENOVATIONS OF THE  
OFFICE BUILDING COMPLETION CONTRACT  
TENDER NO.: 26/02/01**

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**C2.2 BILLS OF QUANTITIES**

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**FEBRUARY 2026**

Rate

**Amount**  
**R**

**BILL NO 1**

## PRELIMINARIES

For Preambles see "PW371 - Specification of Materials and Methods to be used"

Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 190 for Haylett formula purposes

### **MEANING OF TERMS "TENDER / TENDERER"**

Any reference to the words "Tender" or "Tenderer" herein and/or in any other documentation shall be construed to have the same meaning as the words "Bid" or "Bidder"

## **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 abovementioned documents for the full intent and meaning of each clause

The clauses in the abovementioned documents are hereinafter referred to by clause number and heading only

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

**Carried to Collection**

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PRELIMINARIES

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 abovementioned documents

#### **PREAMBLES FOR TRADES**

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

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

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 Model 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)

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**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**

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****Carried to Collection**

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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:.....

Item

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

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

Item

3 Clause 3.0 - Offer and acceptance

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

Item

4 Clause 4.0 - Cession and assignment

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

Item

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)

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

Item

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**:

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Bill No. 1  
PRELIMINARIES

1. Architect

## 1.1 Duties [6.2] :

The architect is responsible for the architectural design, functional design, coordination 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]

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- 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**
- 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

### 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**

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- 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**
- 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**

## 5. Electrical Engineer

### 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

**Carried to Collection**

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

8. Health and safety consultant

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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

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

Item

7 Clause 7.0 - Design responsibility

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

Item

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**

Retention in lieu of Construction Guarantee

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The **contractor** can opt for a retention all as per **clause 11.14.1** in lieu of providing a construction guarantee

**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:.....  
T:.....

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]

**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 Department of Public Works 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

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	F:..... V:..... T:.....	Item
13	Clause 13.0 - Setting out  F:..... V:..... T:.....	Item
14	Clause 14.0 - Nominated <b>subcontractors</b>  F:..... V:..... T:.....	Item
15	Clause 15.0 - Selected <b>subcontractors</b>  F:..... V:..... T:.....	Item
16	Clause 16.0 - <b>Direct contractors</b>  <b>Attendance on direct contractors</b>  In respect of <b>direct contractors</b> the <b>contractor</b> shall:  1. Designate an area for the <b>direct contractor</b> 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 <b>direct contractor</b> to use erected scaffolding, hoisting facilities, etc provided by the <b>contractor</b> , in common with others having the like right, while it remains erected on the <b>site</b> [16.1]  F:..... V:..... T:.....	Item
17	Clause 17.0 - <b>Contract instructions</b>  <b>Site instructions</b>  Instructions issued on <b>site</b> are to be recorded in a site instruction book which is to be supplied and maintained on <b>site</b> by the <b>contractor</b>	
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	F:..... V:..... T:.....	Item
	<u>Completion (A18 - A24)</u>	
18	Clause 18.0 - Interim completion	N/A
19	Clause 19.0 - <b>Practical completion</b>	
	F:..... V:..... T:.....	Item
20	Clause 20.0 - Completion in <b>sections</b>	
	F:..... V:..... T:.....	Item
21	Clause 21.0 - <b>Defects</b> liability period and <b>final completion</b>	
	F:..... V:..... T:.....	Item
22	Clause 22.0 - <b>Latent defects</b> liability period	
	F:..... V:..... T:.....	Item
23	Clause 23.0 - Revision of the date for <b>practical completion</b>	
	<b>Substitution of materials and goods</b>	
	The removal or substitution of any <b>materials and goods</b> which do not conform to the specification or the <b>contract drawings</b> shall not constitute grounds for the extension of the <b>construction period</b> nor for the adjustment of the <b>contract value</b> [17.1.8; 23.1 & 2]	
	F:..... V:..... T:.....	Item
24	Clause 24.0 - <b>Penalty</b> for late or non-completion	
	F:..... V:..... T:.....	Item
	<u>Payment (A25 - A27)</u>	
25	Clause 25.0 - Payment	
	<b>Carried to Collection</b>	
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**Prices submitted**

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

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

Item

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

**Fluctuations in costs**

N/A

**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:..... T:.....

Item

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

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

Item

**Suspension and termination (A28 - A29)**

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

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

Item

- 29 Clause 29.0 - Termination

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	F:..... V:..... T:.....	Item	
	<u>Dispute resolution (A30)</u>		
30	Clause 30.0 - Dispute resolution		
	F:..... V:..... T:.....	Item	
31	<b><u>Agreement</u></b>		
	The required information of the <b>parties</b> and the amount of the <b>contract sum</b> shall be inserted in the <b>agreement</b> for signature of the <b>agreement</b> by the <b>parties</b>		
	F:..... V:..... T:.....	Item	
32	<b><u>Contract data</u></b>		
	<b>Tenderer's selections</b>		
	Before submission of his tender the <b>contractor</b> is to complete the tenderer's selections in the <b>contract data</b>		
	F:..... V:..... T:.....	Item	
	<b><u>SECTION B: GENERAL PRELIMINARIES</u></b>		
	<u>Definitions and interpretation (B1)</u>		
33	Clause 1.1 - Definitions		
	F:..... V:..... T:.....	Item	
34	Clause 1.2 - Interpretation		
	F:..... V:..... T:.....	Item	
	<u>Documents (B2)</u>		
35	Clause 2.1 - Checking of documents		
	F:..... V:..... T:.....	Item	
36	Clause 2.2 - Provisional <b>bills of quantities</b>		
37	Clause 2.3 - Availability of <b>construction information</b>		
	F:..... V:..... T:.....	Item	
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38	<p>Clause 2.4 - Ordering of <b>materials and goods</b></p> <p>F:..... V:..... T:.....</p> <p><u>Previous work and adjoining properties (B3)</u></p>	Item	
39	<p>Clause 3.1 - Previous work - dimensional accuracy</p> <p>F:..... V:..... T:.....</p>	Item	
40	<p>Clause 3.2 - Previous work - <b>defects</b></p> <p>F:..... V:..... T:.....</p>	Item	
41	<p>Clause 3.3 - Inspection of adjoining properties</p> <p>F:..... V:..... T:.....</p> <p><u>The site (B4)</u></p>	Item	
42	<p>Clause 4.1 - Handover of <b>site</b> in stages</p> <p>F:..... V:..... T:.....</p>	Item	
43	<p>Clause 4.2 - Enclosure of the <b>works</b></p> <p>F:..... V:.....</p> <p>T:.....</p>	Item	
44	<p>Clause 4.3 - Geotechnical and other investigations</p> <p>F:..... V:..... T:.....</p>	Item	
45	<p>Clause 4.4 - Encroachments</p> <p>F:..... V:..... T:.....</p>	Item	
46	<p>Clause 4.5 - Existing premises occupied</p> <p>F:..... V:..... T:.....</p>	Item	
47	<p>Clause 4.6 - Services - known</p> <p>F:..... V:..... T:.....</p> <p><u>Management of contract (B5)</u></p>	Item	
48	<p>Clause 5.1 - Management of the <b>works</b></p> <p>F:..... V:..... T:.....</p>	Item	
<p><b>Carried to Collection</b></p>			R
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49	Clause 5.2 - Progress meetings F:..... V:..... T:.....	Item		
50	Clause 5.3 - Technical meetings F:..... V:..... T:..... <u>Samples, shop drawings and manufacturer's instructions (B6)</u>	Item		
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:..... <u>Deposits and fees (B7)</u>	Item		
55	Clause 7.1 - Deposits and fees F:..... V:..... T:..... <u>Temporary services (B8)</u>	Item		
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		
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59	<p>Clause 8.4 - Communication facilities</p> <p>F:..... V:..... T:.....</p> <p><u>Prime cost amounts (B9)</u></p>	Item		
60	<p>Clause 9.1 - Responsibility for <b>prime cost amounts</b></p> <p><u>Attendance on subcontractors (B10)</u></p>			
61	<p>Clause 10.1 - General attendance</p> <p>F:..... V:..... T:.....</p>	Item		
62	<p>Clause 10.2 - Special attendance</p> <p><u>General (B11)</u></p>			
63	<p>Clause 11.1 - Protection of the <b>works</b></p> <p>F:..... V:..... T:.....</p>	Item		
64	<p>Clause 11.2 - Protection/isolation of existing <b>works</b> and <b>works</b> occupied in <b>sections</b></p> <p>F:..... V:..... T:.....</p>	Item		
65	<p>Clause 11.3 - Security of the <b>works</b></p> <p>The tenderer is to allow for 24 hour security 7 days a week for the duration of the contract.</p> <p>F:..... V:..... T:.....</p>	Item		
66	<p>Clause 11.4 - Notice before covering work</p> <p>F:..... V:..... T:.....</p>	Item		
67	<p>Clause 11.5 - Disturbance</p>			
Carried to Collection			R	
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**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

**Note:** Work between 9am and 2pm is to be carried out with minimum noise.

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

Item

68 Clause 11.6 - Environmental disturbance

**Controlling all forms of pollution**

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

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

**Environmental management plan**

The contractor shall execute the works without unreasonable adverse effect on the environment

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

Item

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

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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

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76	<p>Cooperation of the <b>contractor</b> for cost management</p> <p>It is specifically agreed that the <b>contractor</b> accepts the obligation of assisting the <b>principal agent</b> in implementing proper cost management. The <b>contractor</b> will be advised by the <b>principal agent</b> of all cost management procedures which will be implemented to ensure that the <b>contract value</b> does not exceed the budget</p> <p>F:..... V:..... T:.....</p>	Item		
77	<p>Overloading</p> <p>The <b>contractor</b> shall take all necessary steps to ensure that no damage occurs due to overloading of any portion of the <b>works</b> or temporary works eg scaffolding, etc. The <b>contractor</b> shall submit details of his proposed loading, storage, plant erection, etc to the <b>principal agent</b> for approval prior to proceeding with such loading, storing or erecting and shall comply with and pay for the <b>principal agent's</b> requirements in connection with the provision of temporary support work, etc. Any damage caused to the <b>works</b> by overloading shall be made good by the <b>contractor</b> at his sole expense</p> <p>F:..... V:..... T:.....</p>	Item		
78	<p>Propping of floors below</p> <p>The <b>contractor</b> is advised that propping of floors below may be required if he wishes to use any areas of completed suspended reinforced concrete slabs for vehicle access, storage of <b>materials and goods</b> and location of plant, scaffolding, etc. The location of these areas and any necessary propping shall be approved by the <b>principal agent</b> and the cost thereof shall be borne by the <b>contractor</b></p> <p>F:..... V:..... T:.....</p>	Item		
79	<p>Testing of flat roof waterproofing for watertightness</p> <p>Flat roof waterproof areas shall be flooded and kept "ponded" for at least forty eight (48) hours as a test to ensure the watertightness of the waterproofing and before any further construction work is carried out above the waterproofing</p> <p>F:..... V:..... T:.....</p>	Item		
80	<p>Health and safety</p>			
Carried to Collection			R	
Bill No. 1 PRELIMINARIES				

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]

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

Item

81 **Broad based black economic empowerment (BBBEE)**

F = ..... V = ..... T =  
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Item

82 **Business Forum**

The **Tenderer** is referred to PA-16.2 (EC) with regards tender and contract conditions pertaining to contract participation goal.

The tenderer is to allow for any additional costs associated with the above clause and no claims for delays caused by business forums will be entertained

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

Item

Tenders submitted will be evaluated taking into account their empowerment rating

The **employer** will be monitoring the black economic empowerment 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 BBBEE rating, including proof of the said rating

83 **Advertising rights**

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

84 **Confidentiality**

F = ..... V = ..... T =  
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Item

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**

85 **Media releases**

F = ..... V = ..... T =  
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Item

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

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

SUMMARY OF CATEGORIES

86 Category : Fixed R 0.00

Category : Value R 0.00

Category : Time R 0.00

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## PRELIMINARIES

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**Rate**

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Doors, fanlights, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehangng, 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

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)

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

#### Handing over of materials

Where certain materials or articles from demolitions are described as to be handed over by the Contractor to the Regional Representative or Representative/Agent, the Contractor shall obtain an official receipt listing the materials or articles and dates of handing over. If the Contractor fails to submit the receipt when requested to do so, it shall be deemed that the materials or articles are still in his possession and he will be held liable to the Department for the full replacement value thereof which amount will be deducted from any monies due to the Contractor

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Existing furniture, equipment, etc

The Contractor shall not remove or damage any furniture, equipment or similar items that belong to the Department except when specifically described in the items to follow:

The Contractor must give the Representative/Agent sufficient notice if the removal of these items are required before any prescribed alterations can be done

Old materials not to be re-used

None of the old materials are to be used for new work except where specifically described to be set aside for re-use.

Work and material

The work to be done and materials to be used in the alterations are to be similar to those specified in the new work in so far as they apply

Abbreviations

For the purpose of this bill certain abbreviations have been made use of, the full meanings of which are as follows:

**"Breaking down and removing"** walls, etc implies that the wall is to be taken down to the extent shown on the drawings or as may be described and that all necessary shoring is to be provided and allowed for to ensure the safety of the building during the pulling down or until new walls are erected and all portions of the remaining walls where disturbed or affected by the removal are to be made good and left ready for the plaster or other finishings

**"Taking out and removing doors, windows, etc"** implies that the door, etc is to be carefully taken down together with the frame, linings, architraves, window sills, etc complete and where brick lintels occur, it must be supported and propped until the openings are built up or new doors or windows built in position

**"Setting aside for re-use"** implies that special care is to be exercised in the taking down of any particular article that may require to be refixed and so avoid unnecessary repairs and making good and such articles are to be carefully stored in a dry place and kept free from damage

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**"Forming openings"** for doors or windows, etc implies that the plaster or any other covering is to be hacked off and an opening formed sufficient in size to receive the building in of the frame and cramps, and the forming of new dampproof courses, lintels, sills, etc. After building in of the new frame, the opening is to be built against the frame, plaster or faced brickwork to be made good both sides and reveals and floor screeds prepared for finishings to match existing

**"Refixing"** implies that the articles or fittings referred to are to be refixed in the new position together with all the necessary finishings such as linings, architraves, skirtings, locks and furniture, etc complete and in every respect similar to such articles before removal, and allowance is to be made for any necessary adjustments or alterations for the proper adaption of same to the new position

**"Making good"** implies that all necessary repairs are to be made to reinstate articles that may be damaged through the removal or otherwise, and the supplying of any new materials to match existing work, and is to include any necessary repairs to adjacent finishings such as floors, skirtings, plaster, painting, etc and such making good is to match adjoining work in all respects and in all trades

**"Building up opening"** implies that after the removal of any doors, windows or screens that may be described to be taken down, the opening is to be filled up solid (or to the thickness as shown) with new brickwork and is to include all necessary cutting away to form toothings to thoroughly bond to the new work and new finishes to both sides as described. Paint described in such items implies one coat alkali resistant primer and one undercoat to plastered surfaces. Final coats are elsewhere allowed for

#### PRICES

Prices are to include for carting away from site all materials not specifically mentioned as being stored on site for re-use or handed over to the Director and all rubbish, debris, etc arising from the alterations, etc and for making good all work damaged or disturbed to the approval of the Director

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Dimensions

All dimensions and sizes referred to in this bill are approximate

(WORKGROUP NO. 102)TEMPORARY BARRIERS, SCREENS, ETCTemporary barriers, screens, etc including removal

- |   |  |   |   |
|---|--|---|---|
| 1 | Drywall barrier 2600mm high formed of galvanised steel channel section rails and studs covered on both side with 12,7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc | m | 5 |
| 2 | Drywall barrier 3200mm high formed of galvanised steel channel section rails and studs covered on one side with 12,7mm gypsum board panels and finished with two coats interior quality PVA emulsion paint on one side including corners, ends, etc  | m | 2 |

REMOVAL OF EXISTING WORK

- |   |   |      |  |
|---|---|------|--|
| 3 | Allow for watering the works by spraying to prevent any nuisance from dust, etc and supply, erect and remove at completion all temporary dust screens, etc required | Item |  |
|---|---|------|--|

Break up and remove reinforced concrete, including cutting off and removing reinforcement

- |   |  |                |    |
|---|--|----------------|----|
| 4 | Steps and landings                                     | m <sup>3</sup> | 2  |
| 5 | Cut through 200mm surface 300mm wide for new services. | m              | 20 |

Taking out and removing doors, windows, etc from brickwork to remain

- |   |  |    |    |
|---|--|----|----|
| 6 | Timber single door and steel frame not exceeding 2,5m <sup>2</sup>                               | No | 23 |
| 7 | Timber single door and timber frame not exceeding 2,5m <sup>2</sup>                              | No | 6  |
| 8 | Timber single door with inactive leaf and steel frame not exceeding 2,5m <sup>2</sup>            | No | 18 |
| 9 | Timber double door and steel frame exceeding 2,5m <sup>2</sup> and not exceeding 5m <sup>2</sup> | No | 19 |

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VULAMEHLO MAGISTRATES COURT

10	Timber double door and timber frame exceeding 2,5m <sup>2</sup> and not exceeding 5m <sup>2</sup>	No	1		
11	Aluminium sliding door and frame exceeding 2,5m <sup>2</sup> and not exceeding 5m <sup>2</sup>	No	1		
12	Steel strong room door and steel frames not exceeding 2,5m <sup>2</sup>	No	7		
	<u>Take out and remove sundry joinery work, fittings, etc</u>				
13	Timber coping 150mm wide to accused box in court rooms	m	38		
14	Timber skirtings including quadrant	m	150		
15	Aluminium glazing and steel mesh combination on joinery size 6,5 x 5m high overall to clerks	No	4		
16	"U" shaped worktop size 10,5 x 0,6m wide overall in kitchen "room 010"	No	1		
17	Timber joinery and aluminium screen combination to public counter "room 120" 4,9 x 1,5m high overall	No	1		
18	Timber joinery and aluminium screen combination to switchboard "room 131" 9 x 2,7m high overall	No	1		
19	Timber joinery and steel screen combination to registry clerks "room 130" 9 x 2,7m high overall	No	1		
20	Magistrates bench and associated joinery 7,5m x 1,6m high overall	No	2		
21	Timber cladding to columns to magistrates bench 5m high and not exceeding 2m girth	No	4		
22	Timber joinery to witness box 1m high and not exceeding 4m girth	No	2		
23	Benches in passage 1,8 x 0,55m high	No	4		
	<u>Take down and remove roofs, floors, panelling, ceilings, partitions, etc</u>				
24	Pitched timber trusses including disconnecting and removal of roof ties (measured on flat) (LI)	m <sup>2</sup>	1 710		
25	70 x 363mm Laminated timber beams including brackets fixed to brickwork or concrete (LI)	m	366		
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26	Acoustic suspended ceiling panels size 600 x 600mm from suspension grid, hangers, etc to remain	No	47		
	<u>Take down and remove pitched roof not exceeding a pitch of 30° including corrugated roof covering, timber trusses and purlins, ceilings and cornices, eaves soffit covering, fascias, barge boards, gutters and rainwater pipes from</u>				
27	Block D	m²	140		
	<u>Removal of bench anchors</u>				
28	75mm Anchors fixed to floors including making good floors where anchors removed	No	140		
	<u>Taking out and removing structural steelwork fixed to steel rafters to remain at 1.5m centres</u>				
29	50 x 50mm x 3,77kg/m L-section angle bracing	m	102		
	<u>Hack up/off and remove granolithic, screeds or plaster from concrete or masonry and prepare surfaces for new screeds or plaster</u>				
30	Internal plaster from walls and columns (LI)	m²	2 500		
	<u>Taking up and removing vinyl floor coverings, carpeting, etc</u>				
31	Vinyl tile floor covering including preparing screed for new vinyl floor covering (LI)	m²	994		
	<u>Hacking up/off and removing ceramic tile floor and wall finishes including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishes</u>				
32	Ceramic tiles to floors	m²	22		
33	Ceramic tiles to walls	m²	20		
	<u>Taking out and removing sanitary fittings, tanks, geysers, etc, including disconnecting from pipes, traps, etc and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>				
34	Stainless steel wash hand basin	No	3		
35	Stainless steel WC pan and cistern	No	3		
36	Fire hose reels	No	2		
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<u>Take out/off and remove sundry metalwork</u>				
37	Handrail not exceeding 80mm diameter fixed to walls at 1m centres	m	74	
38	Single steel gate size 900 x 2000mm high overall	No	1	
39	Single steel gate size 1100 x 2400mm high overall	No	2	
40	Double steel gate size 2090 x 2045mm high overall	No	3	
<u>Servicing of ironmongery</u>				
41	Service existing mortice lock, oil and ease furniture and lock, replace missing keys, and refix with matching screws including resetting striking plate	No	40	
<u>Servicing of existing trellis gates</u>				
42	Clean and service existing trellis gates size 2270 x 2400mm high overall and left in working order	No	2	
<b><u>MAKING GOOD OF FINISHES, ETC.</u></b>				
<u>Making good internal cement plaster</u>				
43	Chase out plaster cracks to form recess 25mm wide and 20mm deep, and fill with 1:4 cement mortar, including floating up smooth to match existing	m	8	
<u>Cleaning</u>				
44	Clean out existing concrete gutter and prepare for waterproofing (elsewhere)	m <sup>2</sup>	132	
45	Pressure cleaning existing walkways with a high pressure hose	m <sup>2</sup>	861	
46	Allow for cleaning existing granolithic screed with a high pressure hose	m <sup>2</sup>	519	
<b><u>PATCHING FLOORS</u></b>				
<u>30MPa/19mm Concrete</u>				
47	Floors cast in restricted areas	m <sup>3</sup>	1	
<u>Wood float surface treatment to finished face of concrete, including non-slip broom finish</u>				
48	Floors in restricted areas	m <sup>2</sup>	1	
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<u>Fabric reinforcement</u>					
49	Type 395 fabric reinforcement in floors, etc in restricted areas	m <sup>2</sup>	1		
<u>High tensile steel dowel bars</u>					
50	Y16 steel dowel bar 400mm long with one end embedded in side of concrete including "Hilti" Hy200 epoxy	No	50		
<u>Prepare and apply one coat bitumastic paint</u>					
51	150mm High edge of concrete hardstand	m	40		
<b><u>OPENINGS THROUGH EXISTING WALLS</u></b>					
<u>Breaking out for and forming plain openings through face brick walls including neccessary precast concrete lintels and making good face brick externally and plaster internally and into reveals and with screed thresholds with steel trowelled finish (making good face bricks and paintwork elsewhere)</u>					
52	Opening for window 1100 x 2500mm high through one brick wall	No	1		
<b><u>CUT THROUGH FLOORS AND CEILINGS</u></b>					
<u>Cut through</u>					
53	200mm Thick concrete surface beds including cutting and breaking off reinforcement	m	11		
<b><u>PREPARATORY WORK TO EXISTING SURFACES</u></b>					
<u>Remove contaminants using mechanical methods as per manufacturers instructions</u>					
54	Grind screeded floor with a diamond grinder to remove contaminants and render a clean smooth substrate to recieve new finish where vinyl floor finish removed (elsewhere)	m <sup>2</sup>	1 169		
<u>Mechanical ventilation to assist drying out of existing damp walls once box gutter waterproofing has been completed and roof structure has been erected prior to painting</u>					
55	Walls	m <sup>2</sup>	270		
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Prepare surfaces and remove all loose material and apply approved bonding liquid in accordance with the manufacturers specifications

56	On existing walls	m <sup>2</sup>	2 500
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**PROTECT EXISTING FINISHES**

Aluminium

57	Window size 1,5 x 1,5m high overall to guard house	No	1
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58	Window size 3 x 1,5m high overall to guard house	No	1
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Joinery

59	Counter and cashtray combination size 1,5 x 0,6m wide in guard house	No	1
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60	Worktop size 2 x 0,6m wide in guard house	No	1
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61	Counter and cashtray combination size 3 x 0,6m wide in guard house	No	1
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Site survey

Should the contractor consider that any of the excavations are more difficult in character than excavations in "earth" he shall immediately notify the principal agent in writing. Failing such notification the excavations shall be deemed to be in "earth" and shall be measured and valued accordingly

The contractor may use any method he chooses to excavate any class of material, but his chosen method of excavation shall not determine the classification of the material excavated

Subterranean water

No subterranean water is expected

Disposal of excavated material

All excavations shall be deemed to include disposal of excavated material by setting aside for use as filling or depositing on site within 100m of the perimeter of the building and spreading and leveling

(WORK GROUP 104)EXCAVATIONSExcavation in earth not exceeding 2m deep

62	Trenches below existing surface beds	m <sup>3</sup>	4
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Extra over trench and hole excavations in earth for breaking up and removing

63	Reinforced concrete	m <sup>3</sup>	1
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Extra over all excavations for carting away

64	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	2
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Risk of collapse of excavations

65	Sides of trench and hole excavations not exceeding 1,5m deep	m <sup>2</sup>	12
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FILLING ETC

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EARTHWORKS (PROVISIONAL)

R

	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 93% Mod AASHTO density</u>			
66	Backfilling to trenches, holes, etc	m <sup>3</sup>	3	
	<b><u>SOIL POISONING</u></b>			
	<u>Soil insecticide</u>			
67	To bottoms and sides of trenches etc	m <sup>2</sup>	16	
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EARTHWORKS (PROVISIONAL)

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EARTHWORKS (PROVISIONAL)

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

Rates for all formwork shall be deemed to include propping

Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"

**(WORK GROUP 110)**

**REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

25MPa/19mm concrete

68	Strip footings	m <sup>3</sup>	1
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30MPa/19mm concrete

69	Surface beds in patches	m <sup>3</sup>	1
----	-------------------------	----------------	---

70	Steps	m <sup>3</sup>	2
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**CONCRETE SUNDRIES**

Prepare and apply one coat bitumastic paint

71	200mm High edge of concrete surface bed	m	11
----	---	---	----

**TEST CUBES**

72	Making, curing and testing 150 x 150 x 150mm concrete strength test cubes (Provisional)	No	3
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**(WORK GROUP 111)**

**FORMWORK**

Formwork to sides

73	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	78
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CONCRETE, FORMWORK AND REINFORCEMENT

R

(WORK GROUP 114)REINFORCEMENT (PROVISIONAL)Mild and High tensile steel reinforcement to structural concrete work

74	Various diameter bars	t	0.10
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Fabric reinforcement

75	Type 193 in concrete surface beds, slabs, etc in patches including splicing new to existing	m <sup>2</sup>	2
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CONCRETE, FORMWORK AND REINFORCEMENT

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CONCRETE, FORMWORK AND REINFORCEMENT

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Bill No. 3

CONCRETE, FORMWORK AND REINFORCEMENT

R

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Bill No. 4  
MASONRY

Lintels

Lintels shall bear at least 250mm onto adjacent walling. Where such bearing cannot be obtained due to the proximity of adjacent openings the lintel shall be continuous

Bagged brick finish

Bagged brickwork shall be of the mortar as described rubbed onto wall with hessian cloth to provide a fair finish. The finished surface shall be free of penetrations or pitted openings or large protruding lumps of mortar. The finish shall be to the principal agent's approval

(WORK GROUP 116)FOUNDATIONS (PROVISIONAL)

Brickwork of NFX bricks (14 MPa nominal compressive strength) in class I mortar

76	One brick walls	m <sup>2</sup>	7
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Brickwork reinforcement

77	150mm Wide reinforcement built in horizontally in foundations (Provisional)	m	77
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SUPERSTRUCTURE

Brickwork of NFP bricks in class II mortar

78	Half brick walls in beamfilling	m <sup>2</sup>	31
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79	One brick wall in beamfilling	m <sup>2</sup>	19
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80	One brick walls	m <sup>2</sup>	14
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Brickwork reinforcement

81	150mm Wide reinforcement built in horizontally	m	42
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Galvanised wire ties etc

82	4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork or concrete	No	236
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Bill No. 4

MASONRY

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MASONRY

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## BUILDING WORKS

**BILL NO 5**

## WATERPROOFING

For Preambles see "PW371 - Specification of Materials and Methods to be used"

## SUPPLEMENTARY PREAMBLES

## Waterproofing

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

**(WORK GROUP 120)**

## DAMPPROOFING OF WALLS AND FLOORS

Two coats "Brixal" bitumen emulsion waterproof coating

85	On bagged brick walls	m <sup>2</sup>	50
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## WATERPROOFING TO ROOFS, BASEMENTS, ETC

One layer "Derbigum SP4" waterproofing membrane, with 75mm side and 100mm end laps, torch-fusion sealed to and including bitumen primed surfaces to

86	Concrete gutters	m <sup>2</sup>	217
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## WATERPROOFING PROTECTION

Two coats "Derbigum Roofcote" bituminous aluminium paint on waterproofing to

87	Box gutters	m <sup>2</sup>	207
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**Carried to Collection**

**Bill No. 5**  
**WATERPROOFING**

**ACRYLIC FLASHINGS**

"Sealoflex" Professional fibre reinforced waterproofing,  
colour to match roof tile bonded to roof and wall

88	Head and sidewall flashings 300mm girth	m	295
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**SEALING STRIPS, JOINT SEALANTS, ETC**

"Flexothane 27" or simialr approved polyurethane  
sealing compound, including raking out joint filler as  
necessary, bond breaker, primer, etc

89	10 x 10mm In joints in top surfaces	m	15
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 WATERPROOFING

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Bill No. 5

WATERPROOFING

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WATERPROOFING

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	<b><u>SECTION NO 2</u></b>			
	<b><u>BUILDING WORKS</u></b>			
	<b><u>BILL NO 6</u></b>			
	<b><u>ROOF COVERINGS ETC</u></b>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			
	-----			
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Straight cutting</u>			
	Descriptions of all roof coverings shall be deemed to include for all straight cutting			
	<b><u>(WORK GROUP 124)</u></b>			
	<b><u>CORRUGATED METAL SHEETING AND ACCESSORIES</u></b>			
	<u>Safintra 0.8mm thick Saflok 700® Colorplus® colour thunderstorm AZ 200 interlocking roof sheeting fixed to timber internal purlins at 1900mm centres and ridge/eave purlins at 1700mm centres using Saflok 700® clips which are fastened to timber purlins with Fixtite™ or Safintra approved wafer head self-tapping fasteners, all in accordance with the manufacturer's recommendation.</u>			
90	Roof covering with pitch not exceeding 25 degrees, in single lengths	m <sup>2</sup>	2 358	
	<b><u>SHEET METAL FLASHINGS, LININGS, COPINGS, ETC</u></b>			
	<u>Saflok 700 flashings to match roof sheeting</u>			
91	Ridge capping 660mm girth	m	83	
92	Barge flashing 660mm girth	m	146	
93	Hip capping 660mm girth	m	76	
	<b>Carried to Collection</b>			R
	Bill No. 6			
	ROOF COVERINGS			

94	Headwall flashings 462mm girth	m	93
95	Side wall flashing 462mm girth	m	45
96	Raking valley flashing 660mm girth	m	60
97	Counter flashing 185mm girth	m	153
98	Narrow and broad flute closers	m	685

**ROOF AND WALL INSULATION**

"Sisalation FR430" fire retardent aluminium foil based insulation

99	Insulation laid taut over purlins (at approximately 1,80m centres) and fixed concurrent with roof covering, including taped laps and nylon straining wires	m <sup>2</sup>	2 358
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ROOF COVERINGS

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ROOF COVERINGS

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Bill No. 6

ROOF COVERINGS

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Rate

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## BUILDING WORKS

**BILL NO 7**

## **CARPENTRY AND JOINERY**

For Preambles see "PW371 - Specification of Materials and Methods to be used"

## SUPPLEMENTARY PREAMBLES

## Joinery

Descriptions of frames shall be deemed to include frames, transomes, mullions, rails, etc

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes

## Fixing

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete

Decorative laminate finish

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish

**Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes**

## ROOFS, ETC

**Carried to Collection**

**Bill No. 7**  
**CARPENTRY AND JOINERY**

R



Plate nailed timber roof truss construction

The following is applicable in respect of roof trusses

Prefabricated timber roof trusses manufactured by specialist firms on a monoplane principle using galvanized steel plate nails with only be accepted for incorporation in the works and payment made therefor subject to the following conditions being fulfilled:

Design

Timber roof trusses including valley, hip trusses, all purlins or battens, etc., along with necessary stabilising braces must be designed for the successful tenderer by a suitable qualified and experienced Registered Professional Engineer. A roof truss is required adjacent to the inside face of each gable.

Design Loads

In addition to the dead load of the trusses, purlins or battens, braces, roof covering, ceilings, branderling, gangboarding, etc. and where applicable plumbing, etc., installation equipment, the roof shall be designed for imposed loads.

Drawings and calculations

Before any trusses are fabricated, one full set of structural calculations and detail drawings of the roof trusses and layouts must be submitted to the Principal Agent for consideration PRIOR to fabrication. The calculations must clearly state the design parameters used and the type of truss configuration offered together with details of connector type and size and type and grade of timber used for each member. All calculations and drawings submitted for consideration must be signed by the responsible Registered Professional Engineer whose name must also be printed in block capitals along with an address and telephone number at which he can be contacted should the need arise.

Upon completion of the contract the Registered Professional Engineer must issue to the Principal Agent a certificate to effect that the roof has been erected in accordance with his approved design, under his supervision and that the entire roof is structurally stable.

Trusses are to be as per the roofing contractors design. Roof covering is Saflok sheeting on 50 x 76mm purlins. Ceilings are generally nailed up ceilings.

**Carried to Collection**

Bill No. 7  
CARPENTRY AND JOINERY

R

All trusses, beams, rafters, timber posts, bracing and roofing members, etc to be supplied and fixed in accordance with the Engineer's design.

Roof overhang should be as indicated on the drawings. The material and design of the roof construction must be in accordance with the relevant edition of the South African Bureau of Standards and the Standard Building Regulations Chapter 3, Loads and Forces, and Chapter 7, Structural Timber. The minimum requirement for all timber shall be stress graded in accordance with SABS 563. Design stresses shall be as recommended by the National Timber Research Institute - CSIR.

All joints of structural importance in rafters and trusses should be bolted down according to Engineer's details.

Prices shall include for all necessary fixings.

Where trusses, etc are given with type references, these references are to be diagramatic roof layout and line drawings of the trusses attached a the back of these Bills of Quantities

Prices are to include for the design, supply and erection of the trusses complete including bolts, connectors, connections, etc

The dimension of the trusses given in the following descriptions are nominal and the actual measurements for the design and manufacturers of the trusses must be taken from the working drawings

**(WORKGROUP 126)**

Prefabricated timber roof trusses complete, designed, constructed, delivered to site by an approved firm of specialists, under a written guarantee and erected in position

100 Prefabricated truss system, as per the Architects drawings including all relevant bracing, hips and valley-sets, etc. to the Main Building approximately 1710m2 (measured on flat)

Item

101 Prefabricated truss system, as per the Architects drawings including all relevant bracing, hips and valley-sets, etc. to the Guard House approximately 140m2 (measured on flat)

Item

**Carried to Collection**

R

Bill No. 7  
CARPENTRY AND JOINERY

	<u>Wrought laminated timber (architectural finish) grade 8</u>		
102	70 x 363mm Bearers, bolted	m	366
	<u>Sundries</u>		
103	"Teco TH040" 90 degree truss hanger, bolted (bolts elsewhere)	No	134
104	M12 x 65mm Bolt	No	268
	<b><u>ROOFWORK</u></b>		
	<u>Sawn softwood - Grade M4</u>		
105	38 x 114mm Wall plate	m	282
106	50 x 75mm Purlins ( <b><u>provisional</u></b> )	m	2 021
107	50 x 75mm Runners	m	290
	<b><u>EAVES, VERGES, ETC</u></b>		
	<u>"Everite" medium density plain nutec-cement</u>		
108	12 x 300mm Fascias and barge boards, including aluminium H-profile jointing strips (Code: 041-203)	m	217
109	80 x 275mm Socketless barge boards including aluminium H-profile jointing strips (Code: 721-740)	m	145
110	12mm Eaves soffit covering 350mm wide including 38 x 38mm sawn softwood branders along edges fixed to under side of timber rafters	m	350
	<b><u>SKIRTINGS</u></b>		
	<u>Wrought meranti</u>		
111	19mm Quadrant bead planted on at junction with floor and ash veneer panel (measured elsewhere)	m	3
112	19 x 76mm High skirting plugged with and including 19mm quadrant bead planted on at junction with floor	m	1 243
113	32 x 32mm High skirting, plugged	m	30

**DOORS ETC**

Carried to Collection

Bill No. 7  
CARPENTRY AND JOINERY

R

<u>Solid chipcore flush doors with commercial veneer on both sides hung to steel frames</u>				
114	40mm x 1730 x 2032mm Double door, each leaf 865 x 2032mm (D23)	No	3	
<u>"Swartland" or similar approved (class 1 type) hardwood door suitable for paint both sides, hung to timber frame</u>				
115	40mm x 1730 x 2032mm Double door, each leaf 865 x 2032mm including four size 380 x 400mm openings in each leaf to receive glazing (measured elsewhere) (D10)	No	16	
116	40mm x 1730 x 2200mm Double door, each leaf 865 x 2200mm (D20)	No	1	
<u>"Swartland" or similar approved semi-solid core door suitable for paint both sides, hung to steel frames</u>				
117	40mm x 813 x 1990mm Door (D19)	No	4	
118	40mm x 764 x 2200mm Door (D24)	No	3	
119	40mm x 813 x 2032mm Door (D8)	No	19	
120	40mm x 813 x 2032mm Door including 325 x 2032mm inactive panel (D7)	No	18	
121	40mm x 1710 x 2032mm Double door, each leaf 855 x 2032mm (D15)	No	3	
<b><u>FRAMED FRAMES, ETC</u></b>				
<u>Wrought Meranti</u>				
122	50 x 230mm Twice rebated frames, plugged	m	114	
<b><u>BEADS, ARCHITRAVES, ETC</u></b>				
<u>Wrought Meranti</u>				
123	10 x 25mm Glazing beads	m	162	
<b><u>SUNDRY JOINERY</u></b>				
<u>Wrought meranti</u>				
124	155 x 22mm Coping, plugged	m	38	
<b>Carried to Collection</b>				
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CARPENTRY AND JOINERY				

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**THE FOLLOWING JOINERY TO MAGISTRATES  
COURTS AND KITCHENS INCLUDING KITCHEN AND  
VISITORS ROOM TO LOWER GROUND FLOOR  
LEVEL**

**GENERAL**

The following cupboard fittings have been measured as complete units i.e. the components of the units have not been separately measured. The descriptions, therefore, of such units shall be deemed to include all components, assembling, housing, notching, glueing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic finish, glass, ironmongery, metalwork, paint or varnish finishes, etc

The references given in the descriptions refer to the respective types of joinery fittings detailed on the principal agent's drawings included in Annexure ? at the back of this document

NOTE: The requirements of SABS 1385 "Kitchen Cupboards : Build in and Free-standing " as relevant are to apply in terms of materials, construction, finish, design, dimensions and performance:

Supplementary preambles

**PARTICLE BOARD:**

Particle board shall comply with the following specifications :

- a) SABS 1300 Particle board : exterior and flooring type
- b) SABS 1301 Particle board : interior type

**JOINERY:**

Descriptions of frames shall be deemed to include frames, transoms, mullions, rails, etc.

Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.

**FIXING:**

Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.

**Carried to Collection**

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CARPENTRY AND JOINERY

R

**DECORATIVE LAMINATED FINISH:**

Laminate finish shall be glued under pressure. Edge strips shall be butt jointed at junctions with adjacent similar finish.

125	Floor cupboard and drawer unit from 22mm thick Melamine boards size 500mm wide x 750mm high x 520mm deep including ironmongery complete as per Architects detail drawing 25460/06	No	3
126	Floor cupboard and drawer unit with 2no cupboards and 2no drawer units from 22mm thick laminated saligna boards size 816mm wide x 860mm high x 600mm deep including ironmongery complete as per Architects detail drawing 25460/48	No	1
127	Floor mounted worktop and cupboard unit to kitchen 2,013m long x 0,6m wide x 0,9m high including 32mm thick laminated saligna worktop and 25mm thick laminated saligna doors including 50mm diameter hollow adjustable aluminium legs and 25mm thick saligna side panels complete all as per Architects drawing 25460/48	No	1
128	L-Shaped floor cupboard and drawer unit to kitchen 4,35m long x 0,6m wide x 0,9m high including 32mm thick post form Formica worktop and post form Formica shelf complete all as per Architects drawing 25460/49 (sink elsewhere)	No	2
129	L-Shaped floor cupboard and drawer unit to kitchen 6,74m long x 0,6m wide x 0,9m high including 32mm thick laminated saligna worktop and 25mm thick laminated saligna doors, 25mm thick laminated saligna drawer including 50mm diameter hollow adjustable aluminium legs complete all as per Architects drawing 25460/48 (sink elsewhere)	No	1
130	Hardwood timber desk 4 overall size 1500 x 750 x 720mm with 16mm ash veneer including rubio monocoat finish complete all in accordance with Architects drawing 25460/48	No	2

**Carried to Collection**

Bill No. 7  
CARPENTRY AND JOINERY

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131	Hardwood timber desk 3 overall size 1500 x 750 x 720mm supplied and installed complete with 16mm ash veneer including rubio monocoat finish and lectern with hot dipped galvanised adjustable lectern post, 9mm brass pin 120mm long, galvanised post sleeve, etc complete all in accordance with Architects drawing 25460/47	No	6	
132	Magistrates desk overall size 7500 x 900 x 1600mm supplied and installed complete including 16mm thick ashwood veneer counter top with rubio monocoat finish, 76 x 38mm galvanised mild steel beam, 25 x 25mm galvanised mild steel brackets at 900mm centres with enamel paint finish, 16mm plywood backing board with 16mm ash veneer with rubio monocoat finish, 19mm diameter hardwood quadrants, including 16mm ash veneer cradanza under countertop cupboard and drawer unit size 395 x 625 x 768mm with rubio monocoat finish all in accordance with Architects drawing number 25460/46	No	2	
<b><u>HANDLES</u></b>				
<u>"Gelmar" or other approved</u>				
133	5 Hole brushed satin nickel handle (code: 8759)	No	5	
134	Bar handle brushed satin nickel (code: 8302)	No	6	
135	Bar handle brushed satin nickel (code: 8304)	No	11	
<b><u>THE FOLLOWING IN COUNTERS TO REGISTRY CLERK ROOM 130 AND SWITCHBOARD ROOM 131</u></b>				
136	L-Shaped registry clerks counter size 7634 x 1000/720 x 750mm overall including all counter tops, brackets, with 4no under counter cupboards, etc all in accordance with Architects drawing 25460/41 (cash trays, aluminium frame and glazed screen elsewhere measured)	No	1	
137	Switchboard counter size 8176 x 954 x 750mm overall including all counter tops, bracket, with 4no under counter cupboard and drawer units, etc all in accordance with Architects drawing 25460/41 (aluminium frame and glazed screen elsewhere measured)	No	1	
<u>"Gelmar" or other approved</u>				
138	Bar handle brushed satin nickel (code: 8302)	No	8	
139	Bar handle brushed satin nickel (code: 8304)	No	8	
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Bill No. 7 CARPENTRY AND JOINERY				

	<u>Stainless steel cash deal trays by "TAC Products" Tel: 011 626 3063</u>		
140	Extra over melamine counter for cash deal trays as per Architects detail, drawing number WD05/102	No	4
	<b><u>THE FOLLOWING IN COUNTERS TO ACCOUNTS ROOM 161, CLERKS ROOM 159, PENSION ROOM 155, REVENGE ROOM 158, PUBLIC COUNTER ROOM 147 AND PUBLIC COUNTER ROOM 120</u></b>		
141	30mm Thick melamine counter 520mm wide with bull-nose edge on one side on steel brackets bolted to brickwork and capping screwed to brickwork with 3no cupboard and drawer units, etc all as per the Architects drawing 25460/42	m	6
142	30mm Thick melamine counter 520mm wide with bull-nose edge on one side on steel brackets bolted to brickwork and capping screwed to brickwork with 3no cupboard and drawer units, etc all as per the Architects drawing 25460/43	m	24
143	30mm Thick melamine counter 1320mm girth with bull-nose edges, 19 x 75mm timber filler pieces on steel brackets bolted to brickwork and capping screwed to brickwork all as per the Architects drawing 25460/42	m	6
144	30mm Thick melamine counter 1320mm girth with bull-nose edges, 19 x 75mm timber filler pieces on steel brackets bolted to brickwork and capping screwed to brickwork all as per the Architects drawing 25460/43	m	24
	<u>"Gelmar" or other approved</u>		
145	Bar handle brushed satin nickel (code: 8302)	No	21
146	Bar handle brushed satin nickel (code: 8304)	No	21
	<u>Stainless steel cash deal trays by "TAC Products" Tel: 011 626 3063</u>		
147	Extra over melamine counter for cash deal trays as per Architects detail, drawing number WD05/102	No	19
	<b><u>THE FOLLOWING TO COURT ROOM WITNESS STANDS</u></b>		
	<b>Carried to Collection</b>		
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	CARPENTRY AND JOINERY		





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Bill No. 7

CARPENTRY AND JOINERY

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CARPENTRY AND JOINERY

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Bulkheads will only be measured as such when they conform with the above description and when the horizontal or vertical dimensions do not exceed 1.20m. Where these dimensions exceed 1.20m the horizontal or vertical ceilings are included in the general ceiling measurements

**(WORK GROUP 129)**

**CEILINGS, ETC**

**NAILED UP CEILINGS**

6mm 'Everite Nutec' plain boards with white H-profile steel jointing strips over joints

152	Ceilings including 38 x 50mm sawn softwood bandering at 600mm centres with cross bandering at joints, ends of sheets and at light fittings, etc.	m <sup>2</sup>	923
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153	Extra over ceiling for opening for 100mm diameter downlighter	No	2
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"Rhino" gypsum plasterboard cornices

154	75mm Coved cornices, nailed	m	758
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**SUSPENDED CEILINGS**

"OWAcoustic" Premium Constellation 3 bio-degradable mineral wool ceiling tiles. (NRC 0.70) size 600 x 600 x 15mm thick with square edge and white painted finish. laid on existing suspension system

155	Ceilings tiles laid on existing suspended system not exceeding 1m below timber trusses	No	47
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"OWAcoustic" Premium Constellation 3 bio-degradable mineral wool ceiling tiles. (NRC 0.70) size 600 x 600 x 15mm thick with square edge and white painted finish. laid on fire rated "OWAconstruct" O3 exposed demountable T24 suspension system including galvanised hangers at centres not exceeding 1200mm

156	Ceilings suspended not exceeding 1m below timber trusses	m <sup>2</sup>	428
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"Donn" cornices, perimeter trims, etc to suspended ceilings

157	'No.56/20 - SM25 Shadowline' cornices plugged	m	337
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CEILINGS PARTITIONING AND ACCESS FLOORING ET

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"Aerolite Think Pink" ceiling insulation

158	75mm Thick laid on top of ceiling tiles	m <sup>2</sup>	428
159	75mm Thick laid on on top of brandering between roof timbers, etc	m <sup>2</sup>	923

**ACCESS FLOORING**"Precision Flooring" FS800 access flooring

160	140mm High raised access floor under structure screw down (corner lock) phosphate and epoxy coated (colour charcoal)	m <sup>2</sup>	50
161	Junctions against walls and columns	m	12
162	Hole for 50mm diameter pipe through floor panel, including sealing	No	20
163	Extra over access flooring for ventilation panel with and including 150 x 450mm aluminium grille	No	2

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CEILINGS PARTITIONING AND ACCESS FLOORING ETC

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CEILINGS PARTITIONING AND ACCESS FLOORING ET

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Quantity	Rate	Amount R
400		
579		
210		
579		
	R	

Item No		Quantity	Rate	Amount R
	<b><u>SECTION NO 2</u></b>			
	<b><u>BUILDING WORKS</u></b>			
	<b><u>BILL NO 10</u></b>			
	<b><u>IRONMONGERY</u></b>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			
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	<b><u>SUPPLEMENTARY PREAMBLES</u></b>			
	<u>Finishes to ironmongery</u>			
	Where applicable finishes to ironmongery are indicated by suffixes in accordance with the following list: BS Satin bronze lacquered CH Chromium plated SC Satin chromium plated SE Silver enamelled GE Grey enamelled AS Anodised silver AB Anodised bronze AG Anodised gold ABL Anodised black PB Polished brass PL Polished and lacquered PT Epoxy coated SD Sanded			
	<b><u>IRONMONGERY SPECIFICATIONS</u></b>			
	<u>All ironmongery referenced are for "Union" or other approved unless specified differently</u>			
	<b><u>(WORK GROUP 132)</u></b>			
	<b><u>HINGES, BOLTS, ETC</u></b>			
	<u>"Union" or other approved</u>			
168	100 x 75mm Two ball bearing butt hinge reference 8352-100SB	No	6	
169	102 x 76mm Two ball bearing butt hinge grade 304 stainless steel reference JH-BB-STD-2-SS	No	180	
	<u>"Gelmar" or other approved</u>			
170	Clip on 110 cranking 0mm screw on steel hinges (code: 189)	No	10	
	<b>Carried to Collection</b>			R
	Bill No. 10 IRONMONGERY			



**LOCKS**"Union" or other approved

171	3 Lever upright lock reference 2252-76SS	No	59
172	Euro profile double cylinder reference 2X18SC	No	4

**HANDLES**"Union" or other approved

173	6003 Lever handle on 150 x 150mm stainless steel backplate reference 6166-06SS	No	118
174	150mm Aluminium dove pull straight handle reference AL5515-150BBAS	No	8
175	350 x 32mm Diameter stainless steel pull handle straight cranked reference 5210BTSS	No	76

**BOLTS. INDICATOR BOLTS. ETC**"Union" or other approved

176	225mm Flush bolt with keep reference AL8208-225AS	No	86
177	Bathroom indicator bolt reference CZ80941SCR	No	4
178	Helping hand indicator bolt reference 37651LH	No	1
179	2900 Stainless steel rebate set reference 2900SS	No	40
180	Emergency exit night latch case reference L-2349-78SS	No	1
181	Emergency exit fire bolt reference 8066	No	2

**SUNDRIES**"Union" or other approved

182	Doorstop reference AL8730AS, plugged	No	61
183	27mm Wall mounted door stop reference 99011SS	No	12
184	Cabin hook reference SP-B2384-150SC	No	38
185	Adjustable roller catch reference ARC1182SS	No	5

**LETTERS. NAMEPLATES. ETC**

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	<u>Perspex signage as per Architects detail drawing number 25460/16/16A</u>				
186	AC room sign	No	1		
187	Store room sign	No	3		
188	Kitchen sign	No	2		
189	Magistrate 1 sign	No	1		
190	Visiting magistrate sign	No	1		
191	Court room A sign	No	3		
192	Court room B sign	No	3		
193	Clerk of civil court sign	No	1		
194	Clerks sign	No	1		
195	Switch board sign	No	1		
196	Server room sign	No	1		
197	Prosecutor 1 sign	No	1		
198	Prosecutor 2 sign	No	1		
199	Public counter sign	No	2		
200	Pensions sign	No	1		
201	Registry clerk sign	No	1		
202	Assistant head office sign	No	1		
203	Admin office sign	No	1		
204	Accounts sign	No	1		
205	Staff room sign	No	1		
206	Stationary sign	No	1		
207	Senior clerk sign	No	4		
208	Strong room sign	No	4		
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**VULAMEHLO MAGISTRATES COURT**

209	Maintenance sign	No	1
210	Head office sign	No	1
211	Holding cell 3 sign	No	1
212	Holding cell 4 sign	No	1
213	Registry sign	No	1
214	Revenge sign	No	1
215	Records room sign	No	1
216	Estates sign	No	1
217	Tribal authority sign	No	1
218	Township manager sign	No	1
219	Exit sign	No	12
220	National department of works emblem sign	No	4
221	Female toilets sign	No	1
222	Male toilets sign	No	1
223	Female/Male toilets sign	No	1
<b><u>SIGNAGE</u></b>			
<b><u>"Union" or other approved</u></b>			
224	Hose reel sign reference AL5066-06AS	No	7
225	Extinguisher sign reference AL5066-06AS	No	7
226	Electrical sign reference AL5066-06AS	No	3
<b><u>Fire signage as per Architects details drawing number 25460/16</u></b>			
227	Running man and direction sign	No	9
228	Portable fire extinguisher sign	No	3
229	Fire hose reel sign	No	4
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230	Exit sign	No	12
<b><u>BATHROOM FITTINGS</u></b>			
<u>"Kimberly-Clark" or similar approved bathroom accessories</u>			
231	Professional MR3 S/S T/T Tissue Dispensor (3 rolls) (Code: SA426220) wall mounted to manufacturers specifications	No	6
232	Cassette foam soap dispensary (Code: 427518), colour white, mounted to wall according to manufactures instructions	No	4
233	35 Litre curved wall mounted stainless steel bin (code: SA426135)	No	4
234	Slimroll towel dispenser (Code: KIM 10442), colour white, mounted to wall according to manufacturers instructions	No	4
<b><u>VERTICAL BLINDS</u></b>			
<u>"Bijou" vertical blinds with 90mm wide vanes by "Blind Quip" or similar approved fixed outside the window reveal with 46 x 25mm high powder coated top rack as per the manufacturers instructions</u>			
235	Vertical blind vanes to suit vertical blind opening size 550 x 1700mm high	No	6
236	Vertical blind vanes to suit vertical blind opening size 550 x 2300mm high	No	16
237	Vertical blind vanes to suit vertical blind opening size 1200 x 1700mm high	No	2
238	Vertical blind vanes to suit vertical blind opening size 1200 x 2300mm high	No	28
239	Vertical blind vanes to suit vertical blind opening size 1700 x 1700mm high	No	2
240	Vertical blind vanes to suit vertical blind opening size 550 x 2800mm high	No	2
<b><u>PINNING BOARDS. WRITING BOARDS. PROJECTION SCREENS. ETC</u></b>			
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Steelwork described under headings with " INCLUDING PAINTING" shall be deemed to include for preparation by mechanical wirebrush and painting with one coat 45 micron zinc phosphate primer and two coats 30 micron super gloss enamel applied in factory and touched up on site and prices are to include for this

*Bolting of steelwork*

Where steelwork is described as "bolted" to wood, masonry, concrete, etc the bolts are measured elsewhere

**(WORK GROUP 134)**

**GALVANIZED STEEL COLUMNS AND BEAMS, INCLUDING PAINTING**

Welded columns in single lengths with flat base, top, bearer and connection plates, bolted to concrete

243	75 x 75 x 4mm x 8,977kg/m Square hollow section columns	t	0.09
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**GALVANISED BOLTS, FASTENERS, ETC**

244	"Hilti" HLC M16 20 x 80/25 expansion anchor and bolt	No	16
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**HOT DIPPED GALVANISED PURLINS, GIRTS, BRACING, ETC**

Welded bracing, etc with flat connection plates, bolted to steel

245	50 x 50mm x 3,77kg/m L-section angle bracing welded into position on existing steel purlins at 1,5m centres	m	102
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Welded joints and intersections

Prices of continuous hollow section and solid section shall include for welded joints in the length and prices of intersections shall include for all cutting, mitering, scribing, shaping, etc, and welding

Prices of balustrades, burglar guards and the like shall include for framed and welded joints at intersections

Screws and bolts

Screws and bolts shall be of corresponding metal and colour and heads of screws shall be countersunk. Self-tapping screws shall, unless otherwise described, be used for screwing items to adjoining metalwork. Stainless steel screws shall be used for fixing aluminium. Items fixed to adjoining metalwork with rivets, self tapping screws, set screws, machine screws, etc, shall include for all necessary drilling

Where bolting is specified, projecting shanks ends of bolts shall be cut flush and left smooth

(WORK GROUP 136)**GALVANISED STEEL HANDRAILS. BALUSTRADING. ETC**

"Maclock" welded and bolted patent tubular balustrading with polished finish

246	Horizontal balustrading 1.00m high of 32mm diameter continuous pipe top and bottom rails and type B90 stanchions at average 1.50m centres bolted to concrete (bolts elsewhere)	m	3
247	Extra over for straight end closure piece	No	2
248	Hole through 10mm steel for 18mm diameter holes	No	6

**GALVANISED BOLTS. FASTENERS. ETC**

249	"Hilti" HLC M16 20 x 80/25 expansion anchor and bolt	No	6
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**HOT DIPPED GALVANISED STEEL SCREENS AND GATES**

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<u>Welded and bolted screens and gates complete all as per Architects gate schedule revision 1 reference number WD-06.102 Rev 1</u>				
250	Single gate size 0.830 x 2.00m high overall including "Union" stainless steel oval cylinder deadlock with chrome cylinder to be master keyed (G3a)	No	1	
251	Single gate size 0.900 x 2.00m high overall including "Union" stainless steel oval cylinder deadlock with chrome cylinder to be master keyed (G7)	No	1	
252	Single gate size 1.1 x 2.4m high overall including "Union" stainless steel oval cylinder deadlock with chrome cylinder to be master keyed (G5a, G5b)	No	2	
253	Double gate size 2.09 x 2.045m high overall including "Union" stainless steel oval cylinder deadlock with chrome cylinder to be master keyed (G8)	No	3	
<b><u>HOT DIPPED GALVANISED PRESSED STEEL DOOR FRAMES</u></b>				
<u>1.6mm Double rebated frames suitable for half brick walls</u>				
254	Frame for door 813 x 1990mm high	No	4	
255	Frame for door 813 x 2032mm high	No	19	
256	Frame for door 1138 x 2032mm high	No	13	
257	Frame for door 1710 x 2032mm high	No	1	
<u>1.6mm Double rebated frames suitable for one brick walls</u>				
258	Frame for door 813 x 2032mm high	No	4	
259	Frame for door 1138 x 2032mm high	No	5	
260	Frame for door 1710 x 2032mm high	No	2	
261	Frame for door 1730 x 2032mm high	No	3	
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**PURPOSE MADE ALUMINIUM WINDOWS, DOORS, SHOPFRONTS, ETC**

The following to be finished with 25 microns powder coated, manufactured and installed in accordance with good building practice and in terms of the latest code of practice with revisions as recommended by the SABS and AAAMSA

All doors, windows, etc. must be manufactured, brought onto site and installed in full to the satisfaction of the Principal Agent by a firm of Specialists and prices must include all glazing, glazing beads, ironmongery, kickplates, sub-frames, coupling mullions, panels, and approved silicon sealant between aluminium frames and brickwork or plaster externally.

The given sizes are overall, approximate and in the order of width and height. The Contractor must check all sizes carefully for exact sizes before placing orders. Any errors in this respect will be at the Contractors expense and no claims for expense for extras on this account will be entertained.

Note: Door and window types referred to Architects drawing in Architectural drawings A-501, A502, A503 & A510/1 in these Bills of Quantities for tender purposes.

The descriptions given are only to identify the windows on the schedule and Tenderers are advised to study the schedules carefully and assert themselves of all sizes, construction details, configuration and dimensions.

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Rates shall include for the following:

All opening and fixed lights, coupling mullions and transoms, fittings, ironmongery, burglar bars, etc as required and specified

Complete glazing as described with and including matching aluminium glazing beads and gaskets and glazed in accordance with the manufacturer's written instructions

Building in and fixing into preformed openings. Window opening sizes to be verified on site before windows can be manufactured.

Suitable protecting all exposed aluminium and glass surfaces with an approved protection tape and plastic sheeting. Such protection is to be removed at completion of the contract and exposed surfaces cleaned down and left perfect. Under no circumstances will any damage whatsoever to the finished product be acceptable

Silicone pointing with silicone sealant recommended by AAAMSA on all door / window and structure junctions

**(WORK GROUP 136)**

**ALUMINIUM WINDOW AND DOOR COMBINATION TO COURT ROOMS AND OFFICES**

Powder coated aluminium window screen and sliding doors including ironmongery, safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete

262	Purpose made window screens size 3,426 x 1,856m high overall as per Architects detail drawing number 25460/41 to room 131 switchboard	No	1
263	Purpose made window screens and door size 3,295 x 2,6m high overall as per Architects detail drawing number 25460/41 to room 130 registry clerk	No	1
264	Purpose made window screens size 1,4 x 1,5m high overall as per Architects detail drawing number 25460/42 to room 161 accounts	No	4
265	Purpose made window screens size 1,4 x 1,5m high overall as per Architects detail drawing number 25460/42 to room 120 public counter	No	3

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266	Purpose made window screens size 4,898 x 1,5m high overall as per Architects detail drawing number 25460/41 to room 131 registry clerk	No	1		
267	Purpose made window screens size 6,3 x 1,5m high overall as per Architects detail drawing number 25460/43 to room 155 pension	No	1		
268	Purpose made window screens size 6,5 x 1,5m high overall as per Architects detail drawing number 25460/43 to room 147 public counter and room 158 revenge	No	2		
269	Purpose made window screens and doors size 7,5 x 2,7m high overall as per Architects detail drawing number 25460/44 to court rooms	No	2		
<b><u>ALUMINIUM WINDOWS, DOORS, SHOPFRONTS, ETC</u></b>					
<u>Natural anodised aluminium doors glazed with 6.38mm "Intruderprufe NS" safety glass, including frames, ironmongery, sealing etc and fixing to brickwork or concrete</u>					
270	Sliding door size 2024 x 2400mm high overall (D29)	No	1		
<b><u>ALUMINIUM CASEMENT WINDOWS</u></b>					
<u>"Winvent" or similar approved natural anodized aluminium casement top hung windows as per schedule including ironmongery, toughened safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>					
271	Window size 590 x 590mm high (Code: WV(A)66T)	No	134		
<u>"Winvent" or similar approved natural anodized aluminium casement top hung windows as per schedule including aluminium burglar bars, colour white, ironmongery, toughened obscure safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>					
272	Window size 590 x 590mm high (Code: WV(A)66T)	No	5		
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	<u>"Winvent" or similar approved natural anodized aluminium casement top hung windows as per schedule including burglar bars, colour white, ironmongery, toughened safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>		
273	Window size 590 x 590mm high (Code: WV(A)66T)	No	162
	<u>"Winvent" or similar approved natural anodized aluminium casement fixed pane windows as per schedule including ironmongery, toughened safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>		
274	Window size 590 x 590mm high (Code: WV(A)66F)	No	254
275	Purpose made window size 900 x 600mm high	No	2
276	Purpose made window 1040 x 520mm high	No	2
	<u>"Winvent" or similar approved natural anodized aluminium casement fixed pane windows as per schedule including ironmongery, toughened obscure safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>		
277	Window size 590 x 590mm high (Code: WV(A)66F)	No	25
	<u>"Winvent" or similar approved natural anodized aluminium casement fixed pane windows as per schedule including burglar bars, colour white, ironmongery, toughened safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>		
278	Window size 590 x 590mm high (Code: WV(A)66F)	No	57
279	Purpose made window 1040 x 520mm high	No	15
	<u>"Winvent" or similar approved natural anodized aluminium casement fixed pane windows as per schedule including burglar bars, colour white, ironmongery, toughened obscure safety glass thickness to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>		
280	Window size 590 x 590mm high (Code: WV(A)66F)	No	5

**BULLET PROOF WINDOWS**

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	<u>Bullet resistant windows by "Pro Aluminium and Glazing" complete with framework and bullet resistant glass to comply with National Building Regulations, sealing, etc and fixing to brickwork or concrete</u>				
281	Purpose made window size 1400 x 1600mm high as per "Pro Aluminium and Glass" detail drawing number DSVMCBGRPRO/010714/01 Tel: 031 701 2001	No	4		
	<b><u>STEEL ROLLER SHUTTERS ETC</u></b>				
	<u>"Seranda" galvanized steel commercial "Roll-Up" roller shutters with 8 x 3.5mm (eyeball) punched elliptical holes, powder coated with class 2 "Interpon D2525 T" or equal approved colour RAL 7016 (anthracite grey) with a 25 year project warranty on doors and frames, fixed to brickwork or concrete in accordance with the manufacturers instructions</u>				
282	Manual push-up roller shutter for 2400 x 2600mm high opening	No	4		
283	Electrically operated roller shutter for 3500 x 3000mm high opening, including electrical connection and commissioning (electrical isolator elsewhere)	No	1		
	<u>"Centurion" or similar approved roller shutter door motor installed as per the manufacturers instructions</u>				
284	Garage door RSO50 kit roller shutter 500kg 24 VDC FMLC	No	1		
	<b><u>UNDER COUNTER OFFICE SAFES</u></b>				
	<u>"Xpanda" or similar approved office safe fixed to brickwork or concrete</u>				
285	Office safe size 400 x 700mm high (product code 720003)	No	2		
	<b><u>STEEL STRONGROOM DOORS, VENTILATORS, ETC</u></b>				
	<u>"Mutual Safes" strongroom doors, etc suitable for 230mm walls, fixed to masonry or concrete</u>				
286	"DS4" Strong room door and frame for 0.890 x 2.032m high opening (mass 700kg) (D16)	No	7		
287	Double ended strongroom ventilator	No	7		
	<b><u>STAINLESS STEEL HANDRAILS</u></b>				
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Panels

Granolithic shall be laid in panels not exceeding 14m<sup>2</sup> for granolithic finishes, not exceeding 9.5m<sup>2</sup> for bonded finishes and not exceeding 6m<sup>2</sup> for all external granolithic. Wherever possible, panels shall be square but at no time should the length of the panel exceed 1.5 times its width. Joints between panels shall be positioned, where possible, over joints in the floor slab and shall be at least 3mm wide through the full thickness of the finish, separated by strips of wood or fibreboard and finished with small V-joints

Laying

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

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

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

Curing, seasoning and protection

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

Colour

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

**PLASTER**Finish

Internal plaster shall be finished with a steel trowel and external plaster with a wooden float

**(WORK GROUP 142)**

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