



**public works
& infrastructure**

Department:
Public Works and Infrastructure
REPUBLIC OF SOUTH AFRICA

DBN21/10/02

PROCUREMENT DOCUMENTS

FOR THE

DEPARTMENT PUBLIC WORKS AND INFRASTRUCTURE

AT

BERGVILLE MAGISTRATE: REPAIRS AND RENOVATIONS
INCLUDING UPGRADE AND INSTALLATION OF BOREHOLE

AT

BERGVILLE, KWAZULU-NATAL

VOLUME 2 of 3: RETURNABLE DOCUMENTS

Department Public Works and Infrastructure
Durban Regional Office
Regional Offices, Corner Aliwal and West Street
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DURBAN
4001

OCTOBER 2021

NAME OF TENDERER:

CIDB NO:

CSD SUPPLIER'S NO:

CSD UNIQUE NO:

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VOLUME 2: RETURNABLE DOCUMENTS

T2.1: LIST OF RETURNABLE DOCUMENTS

PA-09 (EC): LIST OF RETURNABLE DOCUMENTS

Project title:	<i>Bergville magistrate: repairs and renovations including upgrade and installation of borehole</i>		
Tender / Quote no:	DBN21/10/02	Reference no:	6203/0188/26/4
Receipt Number:			

1. RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

Note: Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

Tender document name	Number of pages issued	Returnable document
Form of Offer and Acceptance (DPW-07 EC)	4 Pages	Yes
Declaration of Interest and Tenderer's Past Supply Chain Management Practices (PA-11)	4 Pages	Yes
Submission of (PA-29): Certificate of Independent Bid Determination	4 Pages	Yes
Resolution of Board of Directors (PA-15.1) <i>(if applicable)</i>	1 Page	Yes
Resolution of Board of Directors to enter into Consortia or JV's (PA-15.2) <i>(if applicable)</i>	2 Pages	Yes
Special Resolution of Consortia or JV's (PA-15.3) <i>(if applicable)</i>	3 Pages	Yes
Site Inspection Meeting Certificate (DPW-16 EC) <i>(if applicable)</i>	1 Page	Yes
Particulars of Tenderer's Projects (DPW-09 EC)		

2. ADDITIONAL RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION PURPOSES

Note: Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also F.2.18 of the Standard Conditions of Tender]

Tender document name	Number of pages issued	Returnable document
Any <u>additional</u> information required to complete a risk assessment <i>(if applicable)</i>	-	Yes

3. RETURNABLE DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

Note: Failure to submit the applicable documents will result in the Tenderer having to submit same upon request within a stipulated time and if not complied with, will result in the tender offer being disqualified from further consideration. [See also F.2.18 of the Standard Conditions of Tender]

Tender document name	Number of pages issued	Returnable document
Record of Addenda to tender documents (DPW-21 EC) <i>(if applicable)</i>	1 Page	Yes
Schedule of proposed sub-contractors (DPW-15 EC) <i>(if applicable)</i>	1 Page	Yes
Particulars of Electrical Contractor (DPW-22 EC) <i>(if applicable)</i>	1 Page	Yes

Mechanical / Electrical / Security Work material and equipment schedules (if applicable)	35 Pages	Yes
Schedule for Imported Materials and Equipment (DPW-23 EC) (if applicable)	1 Page	Yes

4. OTHER DOCUMENTS THAT WILL BE INCORPORATED INTO THE CONTRACT

(Insert a tick in the "Returnable document" column to indicate which documents must be returned with the tender)

Note: Failure to submit the applicable documents will result in the tender offer being disqualified from further consideration.

Tender document name	Number of pages issued	Returnable document
Priced Bills of Quantities / Lump Sum Document (complete document inclusive of all parts)	274 Pages	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No
	Pages	<input type="checkbox"/> Yes <input type="checkbox"/> No

5. ADDITIONAL INFORMATION THAT MAY BE REQUIRED FOR TENDER EVALUATION PURPOSES

Legal Status of Tendering Entity: If the Tendering Entity is:	Documentation to be submitted with the tender, or which may be required during the tender evaluation:
a. A close corporation, incorporated prior to 1 May 2011 under the Close Corporations Act, 1984 (Act 69 of 1984, as amended)	Copies of the Founding Statement – CK1
b. A profit company duly registered as a private company. [including a profit company that meets the criteria for a private company, whose Memorandum of Incorporation states that the company is a personal liability company in terms of Section 8(2)(c) of the Companies Act, 2008 (Act 71 of 2008, as amended)].	Copies of: i. Certificate of Incorporation – CM1; ii. Shareholding Certificates of all Shareholders of the company, plus a signed statement of the company's Auditor, certifying each Shareholder's ownership / shareholding percentage relative to the total; and/or iii. Memorandum of Incorporation in the case of a personal liability company.
c. A profit company duly registered as a private company in which any, or all, shares are held by one or more other close corporation(s) or company(ies) duly registered as profit or non-profit company(ies).	Copies of documents referred to in a. and/or b. above in respect of all such close corporation(s) and/or company(ies).
d. A profit company duly registered as a public company.	Copy of Certificate of Incorporation – CM1, and a signed statement of the company's Secretary or Auditor confirming that the company is a public company.

e. A non-profit company, incorporated in terms of Section 10 and Schedule 1 of the Companies Act, 2008 (Act 71 of 2008, as amended).	Copies of: i the Founding Statement – CK1; and ii the Memorandum of Incorporation setting out the object of the company, indicating the public benefit, cultural or social activity, or communal or group interest.
f. A natural person, sole proprietor or a Partnership	Copy(ies) of the Identity Document(s) of: i. such natural person/ sole proprietor, or each of the Partners to the Partnership.
g. A Trust	Deed of Trust duly indicating names of the Trustee(s) and Beneficiary (ies) as well as the purpose of the Trust and the mandate of the Trustees.

Signed by the Tenderer

Name of representative	Signature	Date

C1.1 FORM OF OFFER AND ACCEPTANCE

DPW-07 (EC): FORM OF OFFER AND ACCEPTANCE

Project title:	<i>Bergville magistrate: repairs and renovations including upgrade and installation of borehole</i>		
Tender no:	DBN21/10/02	Reference no:	6203/0188/26/4

OFFER

The Employer, identified in the acceptance signature block, has solicited offers to enter into a contract for the procurement of:

Bergville Justice: Upgrading Plus Repair and Renovations and installation of borehole

The Tenderer, identified in the offer signature block, has examined the documents listed in the tender data and addenda thereto as listed in the returnable schedules, and by submitting this offer has accepted the conditions of tender.

By the representative of the Tenderer, deemed to be duly authorized, signing this part of this form of offer and acceptance, the Tenderer offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the conditions of contract identified in the contract data.

THE TOTAL OFFER INCLUSIVE OF ALL APPLICABLE TAXES (All applicable taxes" includes value- added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies) IS:

Rand (in words):	
Rand in figures:	R

The award of the tender may be subjected to further price negotiation with the preferred tenderer(s). The negotiated and agreed price will be considered for acceptance as **a firm and final offer.**

This offer may be accepted by the Employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the Tenderer before the end of the period of validity stated in the tender data, whereupon the Tenderer becomes the party named as the Contractor in the conditions of contract identified in the contract data.

THIS OFFER IS MADE BY THE FOLLOWING LEGAL ENTITY: (cross out block which is not applicable)

Company or Close Corporation: And: Whose Registration Number is: And: Whose Income Tax Reference Number is: CSD supplier number:.....	OR	Natural Person or Partnership: Whose Identity Number(s) is/are: Whose Income Tax Reference Number is/are: CSD supplier number:.....
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AND WHO IS (if applicable):

Trading under the name and style of:

AND WHO IS:

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

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"
For Internal & External Use

Represented herein, and who is duly authorised to do so, by: Mr/Mrs/Ms: In his/her capacity as:	Note: A Resolution / Power of Attorney, signed by all the Directors / Members / Partners of the Legal Entity must accompany this Offer, authorising the Representative to make this offer.
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Tender no: DBN21/10/02

SIGNED FOR THE TENDERER:

Name of representative	Signature	Date

WITNESSED BY:

Name of witness	Signature	Date

This Offer is in respect of: (Please indicate with an "X" in the appropriate block)

- The official documents
- The official alternative
- Own alternative (only if documentation makes provision therefore) ..

(N.B.: Separate Offer and Acceptance forms are to be completed for the main and for each alternative offer)

SECURITY OFFERED:

- (a) the Tenderer accepts that in respect of contracts up to R1 million, a payment reduction** of 5% of the contact value (excluding VAT) will be applicable and will be deducted by the Employer in terms of the applicable conditions of contract
- (b) in respect of contracts above R1 million, the Tenderer offers to provide security as indicated below:
- | | |
|---|--|
| (1) cash deposit of 10 % of the Contract Sum (excluding VAT) | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT)
<i>select</i> | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (4) cash deposit of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT) | Yes <input type="checkbox"/> No <input type="checkbox"/> |
| (5) fixed construction guarantee of 5% of the Contract Sum (excluding VAT) and a payment reduction of 5% of the value certified in the payment certificate (excluding VAT)
<i>select</i> | Yes <input type="checkbox"/> No <input type="checkbox"/> |

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Short-Term Insurance Act, 1998 (Act 35 of 1998) or by a bank duly registered in terms of the Banks Act, 1990 (Act 94 of 1990) on the pro-forma referred to above. No alterations or amendments of the wording of the pro-forma will be accepted.

The Tenderer elects as its *domicilium citandi et executandi* in the Republic of South Africa, where any and all legal notices may be served, as (physical address):

.....

Other Contact Details of the Tenderer are:

Telephone No..... Cellular Phone No.

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

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention" Page 2 of 4

Fax No

Postal address

Banker Branch.....

Registration No of Tenderer at Department of Labour

CIDB Registration Number:

Tender no: *DBN21/10/02*

ACCEPTANCE

By signing this part of this form of offer and acceptance, the Employer identified below accepts the Tenderer's offer. In consideration thereof, the Employer shall pay the Contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the Tenderer's offer shall form an agreement between the Employer and the Tenderer upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract are contained in:

- Part 1 Agreement and contract data, (which includes this agreement)
- Part 2 Pricing data
- Part 3 Scope of work
- Part 4 Site information

and drawings and documents or parts thereof, which may be incorporated by reference into Parts 1 to 4 above.

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The Tenderer shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Employer's agent (whose details are given in the contract data) to arrange the delivery of any securities, bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five (5) working days of the date of such receipt notifies the employer in writing of any reason why he/she cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties

For the Employer:

Name of signatory	Signature	Date

Name of Organisation:	Department of Public Works and Infrastructure
Address of Organisation:	

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

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"
 For Internal & External Use

WITNESSED BY:

Name of witness	Signature	Date

Tender no: *DBN21/10/02*

Schedule of Deviations

1.1.1. Subject:
Detail:
1.1.2. Subject:
Detail:
1.1.3. Subject:
Detail:
1.1.4. Subject:
Detail:
1.1.5. Subject:
Detail:
1.1.6. Subject:
Detail:

By the duly authorised representatives signing this agreement, the Employer and the Tenderer agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the Tenderer and the Employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the Tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

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

**Any reference to the words "payment reduction" herein shall be construed to have the same meaning as the word "retention"
 For Internal & External Use

C2.2 BILLS OF QUANTITIES / LUMP SUM DOCUMENT

SECTION 1:

PRELIMINARIES

OCCUPATIONAL HEALTH AND SAFETY ACT

Item No		Quantity	Rate	Amount
	<p><u>SECTION NUMBER 1</u></p> <p><u>BILL NUMBER 1</u></p> <p><u>PRELIMINARIES</u></p> <p><u>MEANING OF TERMS "TENDER / TENDERER"</u></p> <p>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"</p> <p><u>PRELIMINARIES</u></p> <p>The JBCC Preliminaries Code 2103, May 2005 edition for use with the JBCC Principal Building Agreement Edition 4.1 Code 2101, March 2005 is taken to be incorporated herein. The tenderer is deemed to have referred to these documents for the full intent and meaning of each clause. These clauses are referred to by number and heading only. Where standard clauses or options are not applicable to the contract such modifications or corrections as are necessary are given under each relevant clause. Where an item is not relevant to this specific contract such item is marked. "N/A" signifying "Not Applicable".</p> <p><u>PRICING OF PRELIMINARIES</u></p> <p>Should Option A, as set out in clause B10.3.1 hereinafter be used for the adjustment of preliminaries then each item priced is to be allocated to one or more of the three categories Fixed, Value Related or Time Related and the respective amounts entered in the spaces provided under each item</p> <p>Items not priced in these Preliminaries shall be deemed to be included elsewhere in these Bills of Quantities.</p>			
	Carried to Collection		R	
	<p>Section No. 1 Bill No. 1 Preliminaries RUBIQUANT QUANTITY SURVEYORS</p>			

SECTION A: JBCC PRINCIPAL BUILDING AGREEMENT

DEFINITIONS

1 **A1 DEFINITIONS AND INTERPRETATION**

Clause 1.0 Clause

1.1 Definition of "**Commencement Date**" is added:

"COMMENCEMENT DATE" means the date that the **agreement**, made in terms of the Form of Offer and Acceptance, comes into effect

Clause 1.1 Definition of "**Construction Guarantee**" is amended by replacing it with the following:

"CONSTRUCTION GUARANTEE" means a guarantee at call obtained by the **contractor** from an institution approved by the **employer** in terms of the **employer's** construction guarantee form as selected in the **schedule**

Clause 1.1 Definition of "**Construction Period**" is amended by replacing it with the following:

"CONSTRUCTION PERIOD" means the period commencing on the commencement date and ending on the date of practical completion

Clause 1.1 Definition of "**Corrupt Practice**" is added:

"CORRUPT PRACTICE" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.

Clause 1.1 Definition of "**Fraudulent Practice**" is added:

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"FRAUDULANT PRACTICE" means a misrepresentation of facts in order to influence a procurement process in the execution of a contract to the detriment of any tenderer and includes collusive practice among tenderes (prior to or after the tender submission) designed to establish tender prices at artificial non-competitive levels and to deprive the tenderer of the benefits of free and open competition.

Clause 1.1 Definition of **"Interest"** is amended by replacing it with the following:

"INTEREST" means the interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate determined by the Minister of Finance, from time to time, in terms of section 80(1)(b) of the Public Finance Management Act, 1999 (Act No. 1 of 1999).

Clause 1.1 Definition of **"Principal Agent"** is amended by replacing it with the following:

"PRINCIPAL AGENT" means the person or entity appointed by the **employer** and named in the **schedule**. In the event of a **principal agent** not being appointed, then all the duties and obligations of a **principal agent** as detailed in the **agreement** shall be fulfilled by a representative of the **employer** as named in the **schedule**.

Clause 1.1 Definition of **"Security"** is amended by replacing it with the following:

"SECURITY" means the form of security provided by the **employer** or **contractor**, as stated in the **schedule**, from which the **contractor** or **employer** may recover expense or loss

Clause 1.6 is amended by replacing the words "prepaid registered post, telefax or e-mail" with "prepaid registered post or telefax"

Clause 1.6.4 is amended by replacing it with the following:

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No clause

Fixed: _____ Value: _____
Time: _____

Item

OBJECTIVE AND PREPARATION

2 A2 OFFER, ACCEPTANCE AND PERFORMANCE

Clause 2.0

Fixed: _____ Value: _____
Time: _____

Item

3 A3 DOCUMENTS

Clause 3.0

Clause 3.2.1 is amended by replacing "14.1" with "14.0"

Clause 3.7 is amended by the addition of the following:

The **contractor** shall supply and keep a copy of the **JBCC** Series 2000 Principal Building Agreement and Preliminaries applicable to this contract on the **site**, to which the **employer, principal agent** and **agents** shall have access at all times

Clause 3.10 is amended by replacing the second reference to "**principal agent**" with the word "**employer**"

Fixed: _____ Value: _____
Time: _____

Item

4 A4 DESIGN RESPONSIBILITY

Clause 4.0

Clause 4.3 is amended by replacing it with the following:

No clause

Fixed: _____ Value: _____
Time: _____

Item

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5 A5 EMPLOYER'S AGENTS

Clause 5.0

Clause 5.1.2 is amended to include clauses 32.6.3, 34.3, 34.4 and 38.5.8

Fixed: _____ Value: _____
Time: _____

Item

6 A6 SITE REPRESENTATIVE

Clause 6.0

Fixed: _____ Value: _____
Time: _____

Item

7 A7 COMPLIANCE WITH REGULATIONS

Clause 7.0

Note: A separate clause has been included in Section C : Specific Preliminaries of the **bills of quantities / lump sum document** for the contractor to have the opportunity to price for all the requirements of the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification

Fixed: _____ Value: _____
Time: _____

Item

8 A8 WORKS RISK

Clause 8.0

Fixed: _____ Value: _____
Time: _____

Item

9 A9 INDEMNITIES

Clause 9.0

Fixed: _____ Value: _____
Time: _____

Item

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10 A10 WORKS INSURANCES

Clause 10.0

Clause 10.0 is amended by the addition of the following clauses:

10.5 Damage to the Works

- (a) Without in any way limiting the **contractor's** obligations in terms of the contract, the **contractor** shall bear the full risk of damage to and/or destruction of the **works** by whatever cause during construction of the **works** and hereby indemnifies and holds harmless the **employer** against any such damage. The **contractor** shall take such precautions and security measures and other steps for the protection and security of the **works** as the **contractor** may deem necessary
- (b) The **contractor** shall at all times proceed immediately to remove or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**
- (c) The **employer** shall carry the risk of damage to or destruction of the **works** and material paid for by the **employer** that is the result of the excepted risks as set out in 10.6
- (d) Where the **employer** bears the risk in terms of this contract, the **contractor** shall, if requested to do so, reinstate any damage or destroyed portions of the **works** and the costs of such reinstatement shall be measured and valued in terms of 32.0 hereof

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10.6 Injury to Persons or loss of or damage to Properties

- (a) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever arising out of or in the course of or caused by the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

- (b) The **contractor** shall be liable for and hereby indemnifies the **employer** against any liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person, arising out of or in the course of or by reason of the execution of the **works** unless due to any act or negligence of any person for whose actions the **employer** is legally liable

- (c) The **contractor** shall, upon receiving a **contract instruction** from the **principal agent**, cause the same to be made good in a perfect and workmanlike manner at his own cost and in default thereof the **employer** shall be entitled to cause it to be made good and to recover the cost thereof from the **contractor** or to deduct the same from amounts due to the **contractor**

- (d) The **contractor** shall be responsible for the protection and safety of such portions of the premises placed under his control by the **employer** for the purpose of executing the **works** until the issue of the **certificate of practical completion**

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- (e) Where the execution of the works involves the risk of removal of or interference with support to adjoining properties including land or structures or any structures to be altered or added to, the **contractor** shall obtain adequate insurance and will remain adequately insured or insured to the specific limit stated in the contract against the death of or injury to persons or damage to such property consequent on such removal or interference with the support until such portion of the **works** has been completed

- (f) The **contractor** shall at all times proceed immediately at his own cost to remove or dispose of any debris and to rebuild, restore, replace and/or repair such property and to execute the **works**

10.7 High risk insurance

In the event of the project being executed in a geological area classified as a "High Risk Area", that is an area which is subject to highly unstable subsurface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply:

10.7.1 Damage to the works

The **contractor** shall, from the commencement **date** of the **works** until the date of the **certificate of practical completion** bear the full risk of and hereby indemnifies and holds harmless the **employer** against any damage to and/or destruction of the **works** consequent upon a catastrophic ground movement as mentioned above. The **contractor** shall take such precautions and security measures and other steps for the protection of the **works** as he may deem necessary

When so instructed to do so by the **principal agent**, the **contractor** shall proceed immediately to remove and/or dispose of any debris arising from damage to or destruction of the **works** and to rebuild, restore, replace and/or repair the **works**, at the **contractor's** own costs

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10.7.2 Injury to persons or loss of or damage to property

The **contractor** shall be liable for and hereby indemnifies and holds harmless the **employer** against any liability, loss, claim or proceeding arising at any time during the period of the contract whether arising in common law or by statute, consequent upon personal injuries to or the death of any person whomsoever resulting from, arising out of or caused by a catastrophic ground movement as mentioned above

The **contractor** shall be liable for and hereby indemnifies the **employer** against any and all liability, loss, claim or proceeding consequent upon loss of or damage to any moveable or immovable or personal property or property contiguous to the **site**, whether belonging to or under the control of the **employer** or any other body or person whomsoever arising out of or caused by a catastrophic ground movement, as mentioned above, which occurred during the period of the contract

10.7.3 It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.7.1 and 10.7.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days** of the **commencement date** but before commencement of the **works**, submit to the **employer** proof of such insurance policy, if requested to do so

10.7.4 The **employer** shall be entitled to recover any and all losses and/or damages of whatever nature suffered or incurred consequent upon the **contractor's** default of his obligations as set out in 10.7.1; 10.7.2 and 10.7.3. Such losses or damages may be recovered from the **contractor** or by deducting the same from any amounts still due under this contract or under any other contract presently or hereafter existing between the **employer** and the **contractor** and for this purpose all these contracts shall be considered one indivisible whole

Fixed: _____ Value: _____
Time: _____

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11 **A11 LIABILITY INSURANCES**

Clause 11.0

Fixed: _____ Value: _____
Time: _____

Item

12 **A12 EFFECTING INSURANCES**

Clause 12.0

Fixed: _____ Value: _____
Time: _____

Item

13 **A13.0 No clause**

N/A

14 **A14 SECURITY**

Clause 14.0

Clauses 14.1 - 14.8 are amended by replacing them with the following:

14.1 In respect of contracts with a **contract sum** up to R1 million, the **security** to be submitted by the **contractor** to the **employer** will be as a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT)

14.1.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.1.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction **security** or portions thereof to the **contractor**

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14.2 In respect of contracts with a **contract sum** above R1 million, the **contractor** shall have the right to select the **security** to be provided in terms of 14.3, 14.4, 14.5, 14.6, or 14.7 as stated in the **schedule**. Such **security** shall be provided to the **employer** within twenty-one (21) **calendar days** from **commencement date**. Should the **contractor** fail to select the **security** to be provided or should the **contractor** fail to provide the **employer** with the selected **security** within twenty-one (21) **calendar days** from **commencement date**, the **security** in terms of 14.7 shall be deemed to have been selected.

14.3 Where **security** as a cash deposit of ten per cent (10%) of the **contract sum** (excluding VAT) has been selected:

14.3.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.3.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to three per cent (3%) of the **contract value** (excluding VAT), and refund the balance to the **contractor**

14.3.3 Within twenty-one (21) **calendar days** of the date of **final completion** of the **works** the **employer** shall reduce the cash deposit to an amount equal to one per cent (1%) of the **contract value** (excluding VAT) and refund the balance to the **contractor**

14.3.4 On the date of payment of the amount in the final **payment certificate**, the **employer** shall refund the remainder of the cash deposit to the **contractor**

14.3.5 The **employer** shall be entitled to recover expense and loss from the cash deposit in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the cash deposit **security** or portions thereof to the **contractor**

14.3.6 The parties expressly agree that neither the **employer** nor the **contractor** shall be entitled to cede the rights to the deposit to any third party

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14.4 Where **security** as a variable construction guarantee of ten percent (10%) of the **contract sum** (excluding VAT) has been selected:

14.4.1 The **contractor** shall furnish the **employer** with an acceptable variable construction guarantee equal in value to ten per cent (10%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.4.2 The variable construction guarantee shall reduce and expire in terms of the Variable Construction Guarantee form included in the invitation to tender

14.4.3 The **employer** shall return the variable construction guarantee to the **contractor** within fourteen (14) **calendar days** of it expiring

14.4.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall issue a written demand in terms of the variable construction guarantee

14.5 Where **security** as a fixed construction guarantee of five per cent (5%) of the **contract sum** (excluding VAT) and a five per cent (5%) payment reduction of the value certified in the payment certificate (excluding VAT) has been selected:

14.5.1 The **contractor** shall furnish a fixed construction guarantee to the **employer** equal in value to five per cent (5%) of the **contract sum** (excluding VAT)

14.5.2 The fixed **construction guarantee** shall come into force on the date of issue and shall expire on the date of the last certificate of **practical completion**

14.5.3 The **employer** shall return the fixed **construction guarantee** to the **contractor** within fourteen (14) **calendar days** of it expiring

14.5.4 The payment reduction of the value certified in a **payment certificate** shall be in terms of 31.8 (A) and 34.8

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14.5.5 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** shall be entitled to issue a written demand in terms of the fixed **construction guarantee** or may recover from the payment reduction or may do both

14.6 Where **security** as a cash deposit of five per cent (5%) of the **contract sum** (excluding VAT) and a payment reduction of five per cent (5%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.6.1 The **contractor** shall furnish the **employer** with a cash deposit equal in value to five per cent (5%) of the **contract sum** (excluding VAT) within twenty-one (21) **calendar days** from **commencement date**

14.6.2 Within twenty-one (21) **calendar days** of the date of **practical completion** of the **works** the **employer** shall refund the cash deposit in total to the **contractor**

14.6.3 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(A)

14.6.4 Where the **employer** has a right of recovery against the **contractor** in terms of 33.0, the **employer** may issue a written notice in terms of 33.4 or may recover from the payment reduction or may do both

14.7 Where **security** as a payment reduction of ten per cent (10%) of the value certified in the **payment certificate** (excluding VAT) has been selected:

14.7.1 The payment reduction of the value certified in a **payment certificate** shall be *mutatis mutandi* in terms of 31.8(B)

14.7.2 The **employer** shall be entitled to recover expense and loss from the payment reduction in terms of 33.0 provided that the **employer** complies with the provisions of 33.4 in which event the **employer's** entitlement shall take precedence over his obligations to refund the payment reduction or portions thereof to the **contractor**

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14.8 Payments made by the guarantor to the **employer** in terms of the fixed or variable **construction guarantee** shall not prejudice the rights of the **employer** or **contractor** in terms of this **agreement**

14.9 Should the **contractor** fail to furnish the **security** in terms of 14.2, the **employer**, in his sole discretion and without notification to the **contractor**, is entitled to change the **contractor's** selected form of **security** to that of a ten per cent (10%) payment reduction of the value certified in the **payment certificate** (excluding VAT), whereafter 14.7 shall be applicable

Fixed: _____ Value: _____
Time: _____

EXECUTION

15 **A15 PREPARATION FOR AND EXECUTION OF THE WORKS**

Clause 15.0

Clause 15.1.1 is amended by replacing it with:

No Clause

Clause 15.1.2 is amended by replacing it with:

The **security** selected in terms of 14.0

Clause 15.1 is amended by the addition of the following clause:

15.1.4 An acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act 85 of 1993), within twenty-one (21) **calendar days** of **commencement date**

Clause 15.2.1 is amended by replacing it with the following clause:

Give the **contractor** possession of the **site** within ten (10) **working days** of the **contractor** complying with the terms of 15.1.2 and 15.1.4

Fixed: _____ Value: _____
Time: _____

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Item

Item

R

16 **A16 ACCESS TO THE WORKS**
 Clause 16.0
 Fixed: _____ Value: _____
 Time: _____

Item

17 **A17 CONTRACT INSTRUCTIONS**
 Clause 17.0
 Clause 17.1.11 is amended by deleting the words "and the appointment of **nominated** and **selected subcontractors**"
 Fixed: _____ Value: _____
 Time: _____

Item

18 **A18 SETTING OUT OF THE WORKS**
 Clause 18.0
 Fixed: _____ Value: _____
 Time: _____

Item

19 **A19 ASSIGNMENT**
 Clause 19.0
 Fixed: _____ Value: _____
 Time: _____

Item

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20 A20 NOMINATED SUB-CONTRACTORS

Clause 20.0

Clause 20.1.3 is amended by replacing it with the following:

No Clause

Note: See item B9.1 hereinafter for adjustment of attendance on **nominated subcontractors** executing work allowed for under provisional sums

Fixed: _____ Value: _____
Time: _____

Item

21 A21 SELECTED SUBCONTRACTORS

Clause 21.0

Clause 21 is amended by replacing it with:

No Clause

Fixed: _____ Value: _____
Time: _____

Item

22 A22 EMPLOYER'S DIRECT CONTRACTORS

Clause 22.0

Fixed: _____ Value: _____
Time: _____

Item

23 A23 CONTRACTOR'S DOMESTIC SUBCONTRACTORS

Clause 23.0

Fixed: _____ Value: _____
Time: _____

Item

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COMPLETION

24 **A24 PRACTICAL COMPLETION**
 Clause 24.0
 Fixed: _____ Value: _____
 Time: _____

Item

25 **A25 WORK'S COMPLETION**
 Clause 25.0
 Fixed: _____ Value: _____
 Time: _____

Item

26 **A26 FINAL COMPLETION**
 Clause 26.0
 Clause 26.1.2is amended by inserting "#" next to 26.1.2
 Fixed: _____ Value: _____
 Time: _____

Item

27 **A27 LATENT DEFECTS LIABILITY PERIOD**
 Clause 27.0
 Fixed: _____ Value: _____
 Time: _____

Item

28 **A28 SECTIONAL COMPLETION**
 Clause 28.0
 Fixed: _____ Value: _____
 Time: _____

Item

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29 **A29 REVISION OF DATE FOR PRACTICAL COMPLETION**

Clause 29.0

Clause 29.2.5 is amended by replacing it with:

No clause

Fixed: _____ Value: _____
Time: _____

Item

30 **A30 PENALTY FOR NON-COMPLETION**

Clause 30.0

Fixed: _____ Value: _____
Time: _____

Item

PAYMENT

31 **A31 INTERIM PAYMENT TO THE CONTRACTOR**

Clause 31.0

32 Clause 31.5.2 is amended by replacing "14.7.1"t with "14.0"

Clause 31.8 is amended by replacing it with the following two alternative clauses:

Alternative A

31.8(A) Where a **security** is selected in terms of 14.1; 14.5 or 14.6, the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(A).1 Ninety-five per cent (95%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(A).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

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31.8(A).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(A).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Alternative B

31.8(B) Where **security** is a payment reduction in terms of 14.7 the value of the **works** in terms of 31.4.1 and **materials and goods** in terms of 31.4.2 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

31.8(B).1 Ninety per cent (90%) of such value in interim **payment certificates** issued up to the date of **practical completion**

31.8(B).2 Ninety-seven per cent (97%) of such value in interim **payment certificates** issued on the date of **practical completion** and up to but excluding the date of **final completion**

31.8(B).3 Ninety-nine per cent (99%) of such value in interim **payment certificates** issued on the date of **final completion** and up to but excluding the final **payment certificate** in terms of 34.6

31.8(B).4 One hundred per cent (100%) of such value in the final **payment certificate** in terms of 34.6 except where the amount certified is in favour of the **employer**. In such an event the payment reduction shall remain at the adjustment level applicable to the final **payment certificate**

Clause 31.12 is amended by deleting the following:

33 Payment shall be subject to the **employer** giving the **contractor** a tax invoice for the amount due

Fixed: _____ Value: _____
Time: _____

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34 **A32 ADJUSTMENT TO THE CONTRACT VALUE**

Clause 32.0

Clauses 32.5.1, 32.5.4 and 32.5.7 are amended by the addition of the following at the end of the sentence:

"due to no fault of the **contractor**"

Fixed: _____ Value: _____
Time: _____

Item

35 **A33 RECOVERY OF EXPENSE AND LOSS**

Clause 33.0

Fixed: _____ Value: _____
Time: _____

36 **A34 FINAL ACCOUNT AND FINAL PAYMENT**

Clause 34.0

Clause 34.1 is amended by removing "#" next to 34.1

Clause 34.2 is amended by removing "#" next to 34.2

Clause 34.8 is amended by deleting the words "where **security** as a fixed **construction guarantee** in terms of 14.4 has been selected or where payment reduction has been applied in terms of 14.7.1"

Clause 34.13 is amended by replacing "seven (7) **calendar days**" with "twenty-one (21) **calendar days**" and deleting the words "subject to the **employer** giving the **contractor** a tax invoice for the amount due"

Fixed: _____ Value: _____
Time: _____

Item

37 **A35 PAYMENT TO OTHER PARTIES**

Clause 35.0

Fixed: _____ Value: _____
Time: _____

Item

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CANCELLATION

A36 CANCELLATION BY EMPLOYER - CONTRACTOR'S DEFAULT

Clause 36.0

Clause 36.1 is amended by the addition of the following clauses:

36.1.3 refuses or neglects to comply strictly with any of the conditions of contract

36.1.4 estate being sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

36.1.5 in the judgement of the **employer**, has engaged in **corrupt** or **fraudulent practices** in competing for or in executing the contract

Clause 36.3 is amended by removing the reference to "No clause" and replacing the words "**principal agent**" with "**employer**"

Clause 36.0 is amended by the addition of the following clause:

36.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value: _____
Time: _____

Item

38 **A37 CANCELLATION BY EMPLOYER - LOSS AND DAMAGE**

Clause 37.0

Clauses 37.3.5 is amended by replacing "ninety (90) with "one hundred and twenty (120)"

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Clause 37.0 is amended by the addition of the following clause:

37.5 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value: _____
Time: _____

39

A38 CANCELLATION BY CONTRACTOR - EMPLOYER'S DEFAULT

Clause 38.0

Clauses 38.5.4 is amended by replacing "ninety (90) with "one hundred and twenty (120)"

Clause 38.0 is amended by the addition of the following clause:

38.7 Notwithstanding any clause to the contrary, on cancellation of this **agreement** either by the **employer** or the **contractor**; or for any reason whatsoever, the **contractor** shall on written instruction, discontinue with the **works** on a date stated and withdraw himself from the **site**. The **contractor** shall not be entitled to refuse to withdraw from the **works** on the grounds of any lien or right of retention or on the grounds of any other right whatsoever

Fixed: _____ Value: _____
Time: _____

Item

Item

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40 **A39 CESSATON - CANCELLATION OF THE WORKS**

Clause 39.0

Clauses 39.3.5 is amended by the addition of the following at the end of the sentence "within one hundred and twenty (120) **working days** of completion of such a report"

Fixed: _____ Value: _____
Time: _____

Item

41 **A40 DISPUTE SETTLEMENT**

Clause 40.0

Clause 40.2.2 is amended by replacing "one (1) year" with "three (3) years"

Clause 40.6 is amended by removing the reference to:

No clause

Clause 40.7.1 is amended by replacing "(10)" with "(15)" and by the addition of the following:

Whether or not mediation resolves the dispute, the parties shall bear their own cost concerning the mediation and equally share the costs of the **mediator** and related costs

Fixed: _____ Value: _____
Time: _____

Item

SUBSTITUTE PROVISIONS

42 **A41 STATE CLAUSES**

Clause 41.0

Fixed: _____ Value: _____
Time: _____

Item

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CONTRACT VARIABLES

THE SCHEDULE (DPW04EC)

43 A42 PRE-TENDER INFORMATION

Clause 42.0

Tenderers are referred to the Contract Data DPW-04(EC) for variables pertaining to this contract

Fixed: _____ Value: _____
Time: _____

Item

SECTION B: JBCC PRELIMINARIES

1: DEFINITIONS AND INTERPRETATION

44 *Definitions and interpretation*

See also clause A1.0 of Section A for additional an/or amended definitions which shall apply to this Section

Fixed: _____ Value: _____
Time: _____

Item

2: DOCUMENTS

45 *Checking of documents*

Fixed: _____ Value: _____
Time: _____

Item

46 *Provisional bills of quantities*

Fixed: _____ Value: _____
Time: _____

Item

47 *Availability of construction documentation*

Fixed: _____ Value: _____
Time: _____

Item

48 *Interests of agents*

Fixed: _____ Value: _____
Time: _____

Item

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49 **Priced documents**
Fixed: _____ Value: _____
Time: _____

Item

50 **Tender submission**
Clause 2.6 is amended by replacing "JBCC Form of Tender" with "Form of Offer and Acceptance DPW-07(EC)"
Fixed: _____ Value: _____
Time: _____

Item

3: THE SITE

51 **Defined works area**
Fixed: _____ Value: _____
Time: _____

Item

52 **Geotechnical investigation**
Fixed: _____ Value: _____
Time: _____

Item

53 **Inspection of the site**
Fixed: _____ Value: _____
Time: _____

Item

54 **Existing premises occupied**
Fixed: _____ Value: _____
Time: _____

Item

55 **Previous work - dimensional accuracy**
Fixed: _____ Value: _____
Time: _____

Item

56 **Previous work - defects**
Fixed: _____ Value: _____
Time: _____

Item

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57 **Services - known**
Fixed: _____ Value: _____
Time: _____

Item

58 **Services - unknown**
Fixed: _____ Value: _____
Time: _____

Item

59 **Protection of trees**
Fixed: _____ Value: _____
Time: _____

Item

60 **Articles of value**
Fixed: _____ Value: _____
Time: _____

Item

61 **Inspection of adjoining properties**
Fixed: _____ Value: _____
Time: _____

Item

4: MANAGEMENT OF CONTRACT

62 **Management of the works**
Fixed: _____ Value: _____
Time: _____

Item

63 **Programme for the works**
Fixed: _____ Value: _____
Time: _____

Item

64 **Progress meetings**
Fixed: _____ Value: _____
Time: _____

Item

65 **Technical meetings**
Fixed: _____ Value: _____
Time: _____

Item

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66 **Labour and plant records**
 Fixed: _____ Value: _____
 Time: _____

Item

**5: SAMPLES, SHOP DRAWINGS AND
MANUFACTURERS' INSTRUCTIONS**

67 **Samples of materials**
 Fixed: _____ Value: _____
 Time: _____

Item

68 **Workmanship samples**
 Fixed: _____ Value: _____
 Time: _____

Item

69 **Shop drawings**
 Fixed: _____ Value: _____
 Time: _____

Item

70 **Compliance with manufacturer's instructions**
 Fixed: _____ Value: _____
 Time: _____

Item

6: TEMPORARY WORKS AND PLANT

71 **Deposits and fees**
 Fixed: _____ Value: _____
 Time: _____

Item

72 **Enclosure of the works**
 Fixed: _____ Value: _____
 Time: _____

Item

73 **Advertising**
 Fixed: _____ Value: _____
 Time: _____

Item

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74 **Plant, equipment, sheds and offices**
Fixed: _____ Value: _____
Time: _____

Item

75 **Main notice board**
Fixed: _____ Value: _____
Time: _____

Item

76 **Subcontractors' notice board**
Fixed: _____ Value: _____
Time: _____

Item

7: TEMPORARY SERVICES

77 **Location**
Fixed: _____ Value: _____
Time: _____

Item

78 **Water**
Fixed: _____ Value: _____
Time: _____

Item

79 **Electricity**
Fixed: _____ Value: _____
Time: _____

Item

80 **Telecommunication facilities**
Fixed: _____ Value: _____
Time: _____

Item

81 **Ablution facilities**
Fixed: _____ Value: _____
Time: _____

Item

8: PRIME COST AMOUNTS

82 **Responsibility for prime cost amounts**
Fixed: _____ Value: _____
Time: _____

Item

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9: ATTENDANCE ON N/S SUBCONTRACTORS

83 **General attendance**

Fixed: _____ Value: _____
Time: _____

Item

84 **Special attendance**

Fixed: _____ Value: _____
Time: _____

Item

85 **Commissioning - fuel, water and electricity**

Fixed: _____ Value: _____
Time: _____

Item

10: FINANCIAL ASPECTS

86 **Statutory taxes, duties and levies**

Fixed: _____ Value: _____
Time: _____

Item

87 **Payment for preliminaries**

Fixed: _____ Value: _____
Time: _____

Item

88 **Adjustment of preliminaries**

Clauses B10.3.1 and B10.3.2 are amended by replacing "within fifteen (15) **working days** of taking possession of the **site**" with "when submitting his priced **bills of quantities / lump sum document**"

Fixed: _____ Value: _____
Time: _____

Item

89 **Payment certificate cash flow**

Fixed: _____ Value: _____
Time: _____

Item

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11: GENERAL

90 **Protection of the works**
Fixed: _____ Value: _____
Time: _____

Item

91 **Protection / isolation of existing / sectionally occupied works**
Fixed: _____ Value: _____
Time: _____

Item

92 **Security of the works**
Fixed: _____ Value: _____
Time: _____

Item

93 **Notice before covering work**
Fixed: _____ Value: _____
Time: _____

Item

94 **Disturbance**
Fixed: _____ Value: _____
Time: _____

Item

95 **Environmental disturbance**
Fixed: _____ Value: _____
Time: _____

Item

96 **Works cleaning and clearing**
Fixed: _____ Value: _____
Time: _____

Item

97 **Vermin**
Fixed: _____ Value: _____
Time: _____

Item

98 **Overhand work**
Fixed: _____ Value: _____
Time: _____

Item

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99 **Instruction manuals and guarantees**
Fixed: _____ Value: _____
Time: _____

Item

100 **As built information**
Fixed: _____ Value: _____
Time: _____

Item

101 **Tenant installations**
Fixed: _____ Value: _____
Time: _____

Item

12: SCHEDULE OF VARIABLES

102 **Schedule of Variables**
Fixed: _____ Value: _____
Time: _____

Item

This **schedule** contains all variables referred to in this document and is divided into pre-tender and post-tender categories. The pre-tender category must be completed in full and included in the tender documents. Both the pre-tender and post-tender categories form part of these Preliminaries.

Spaces requiring information must be filled in, shown as "not applicable" or deleted and not left blank. Where choices are offered, the non-applicable items are to be deleted. Where insufficient space is provided the information should be annexed hereto and cross-referenced to the applicable clause of the **schedule**. Key cross reference clauses are italicised in [] brackets

12.1 PRE TENDER INFORMATION

12.1.1 Provisional Bills of Quantities

[2.2] The quantities are provisional NO

12.1.2 Availability of construction documentation

[2.3] *Construction of documentation is complete* YES

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12.1.3 **Interest of agents**

[2.4] Details:

12.1.4 **Defined works area**

[3.1] Details:

12.1.5 **Geotechnical investigation**

[3.2] Details:

12.1.6 **Existing premises occupied**

[3.4] Specific requirements:

12.1.7 **Previous work - dimensional accuracy**

[3.5] Details:

12.1.8 **Previous work - defects**

[3.6] Details:

12.19. **Services - known**

[3.7] Details:

12.1.10 **Protection of trees**

[3.9] Specific requirements:

12.1.11 **Inspection of adjoining properties**

[3.11] Specific requirements:

12.1.12 **Enclosure of the works**

[6.2] Specific requirements:

12.1.13 **Offices**

[6.4.3] Specific requirements:

The contractor shall provide, maintain and remove on completion of the works an office for the exclusive use of the principal agent, minimum size 4 x 3 x 3m high internally, suitably insulated and ventilated, provided with electric lighting and fitted with boarded floor, desk, chair, drawing stool, drawing board and lock-up drawers for drawings. The office shall be kept clean and fit for use at all times.

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12.1.19 **Ablution facilities**
 [7.5] Option A (by contractor) YES
 Option B (by employer) NO

12.1.20 **Protection of existing/sectionally occupied works**
 [11.2] Protection is required YES

12.1.21 **Special attendance**
 [9.2] **Subcontractor (1) details:**
Subcontractor (2) details:
Subcontractor (3) details:
Subcontractor (4) details:

12.1.22 **Protection of works**
 [11.1] Specific requirements:

12.1.23 **Disturbance**
 [11.5] Specific requirements:
 The contractor shall keep the site, structures, etc well watered during operations to prevent dust and shall provide and erect and remove on completion of the works all necessary temporary dust screens all to the satisfaction of the principal agent

12.1.24 **Environmental disturbance**
 [11.6] Specific requirements:

12.2 POST-TENDER INFORMATION

12.2.1 **Payment of preliminaries**
 [10.2] Option A (prorated) YES/NO
 Option B (calculates) YES/NO

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12.2.2 **Adjustment of preliminaries**

[10.3] Option A (three categories) YES/NO
Option B (detailed breakdown) YES/NO

12.2.3 **Additional agreed preliminaries items**

Details:

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SECTION C: SPECIFIC PRELIMINARIES

Section C contains specific preliminary items which apply to this contract except where N/A (Not Applicable) appears against an item

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C1 CONTRACT DRAWINGS

The drawings issued with the tender documents do not comprise the complete set but serve as a guide only for tendering purposes and for indicating the scope of the work to enable the tenderer to acquaint himself with the nature and extent of the **works** and the manner in which they are to be executed

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

Fixed: _____ Value: _____
Time: _____

Item

104

C2 GENERAL PREAMBLES

The document "Specification of Materials and Methods to be used (PW371)" is obtainable on the Department's website <<http://www.publicworks.gov.za/>> under "Consultants Guidelines", and shall be read in conjunction with the bills of quantities / lump sum document and be referred to for the full descriptions of work to be done and materials to be used

Fixed: _____ Value: _____
Time: _____

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105 **C3 TRADE NAMES**

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

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

Fixed: _____ Value: _____
Time: _____

Item

106 **C4 IMPORTED MATERIALS AND EQUIPMENT**

Where imported items are listed in the tender documents, the tenderer shall provide all the information called for, failing which the price of any such item, materials or equipment shall be excluded from currency fluctuations. (refer to Schedule of Imported Materials and Equipment DPW-23(EC) to be completed by tenderer

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

Fixed: _____ Value: _____
Time: _____

Item

107 **C5 VIEWING THE SITE IN SECURITY AREAS**

The **site** is situated in a security area and the tenderer must arrange with the unit commander or other responsible officer to obtain permission to enter the **site** for tendering purposes

Fixed: _____ Value: _____
Time: _____

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108 **C6 COMMENCEMENT OF WORKS IN SECURITY AREAS**

As the **works** falls within a security area the **contractor** must give the unit commander or other responsible officer notice before commencement of the **works**. Should the **contractor** fail to make such arrangements, admission to the **site** may be refused and any additional costs will be for the **contractor's** account

Fixed: _____ Value: _____
Time: _____

Item

109 **C7 ENTRANCE PERMITS TO SECURITY AREAS**

As the **works** falls within a security area the **contractor** shall obtain entrance permits for his personnel and workmen entering the area and shall comply with all regulations and instructions which may be issued from time to time regarding the protection of persons and property under the control of the Defence Force, Police or chief security officer

Fixed: _____ Value: _____
Time: _____

Item

110 **C8 SECURITY CHECK OF PERSONNEL**

The **principal agent** may require the **contractor** to have his personnel and workmen, or a certain number of them, security classified

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

Fixed: _____ Value: _____
Time: _____

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C9 PROHIBITION ON TAKING OF PHOTOGRAPHS

In terms of article 119 of the Defence Act, 44 of 1957, it is prohibited to sketch or to take photographs of any military site or installation or any building or civil works thereon or to be in possession of a camera or other apparatus used for taking of photographs except when authorized thereto by or on behalf of the Minister

The same prohibition is also applicable to all correctional institutions in terms of article 44.1(e) of the Correctional Services Act 8 of 1959

Fixed: _____ Value: _____
Time: _____

C10 HIV/AIDS AWARENESS

It is required of the **contractor** to thoroughly study the HIV/AIDS Specification (PW 1544) of the Department that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The **contractor** must take note that compliance with the HIV/AIDS Specification is compulsory. In the event of partial or total non-compliance, the **principal agent**, notwithstanding the provisions of Clause A 31.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress **payment certificate** until the **contractor** provides satisfactory proof of compliance. The **contractor** shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

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112 **C10.1 AWARENESS CHAMPION**
Selection, appointment, briefing and making available of an Awareness Champion including provision of all relevant services, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

113 **C10.2 AWARENESS WORKSHOPS**
Selection and appointment of a competent Service Provider approved by the **principal agent**, provision of a Service Provider Workshop Plan and a suitable venue, conducting of awareness workshops by means of traditional and/or modern multi-media techniques, including follow-up courses, making available all tuition material and performing assessment procedures, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

114 **C10.3 POSTERS, BOOKLETS, VIDEOS, ETC.**
Provision, displaying, maintaining and replacing when necessary of four plastic laminated posters, booklets and educational videos, etc. for the duration of the **construction period**, all in accordance with the HIV/AIDS Specification

Fixed: _____ Value: _____
Time: _____

Item

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115 **C10.4 ACCESS TO CONDOMS**

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

Fixed: _____ Value: _____
Time: _____

Item

116 **C10.5 MONITORING**

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

Fixed: _____ Value: _____
Time: _____

Item

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117 C11 : OCCUPATIONAL HEALTH AND SAFETY ACT

It is required of the Contractor to thoroughly study the Health and Safety Specification that must be read together with and is deemed to be incorporated under this Section of the Bills of Quantities. Provision for pricing thereof is made under items C9.1 to C9.9 hereafter and it is explicitly pointed out that all requirements of the aforementioned specification are deemed to be priced hereunder, as the said items represent the only method of measurement and no additional items or extras to the contract in this regard shall be entertained

The Contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health & Safety specification is compulsory. In the event of partial or total non-compliance, the Principal Agent, notwithstanding the provisions of Clause A 31 of "Section 1: Preliminaries (Part A)" or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the Contractor provides satisfactory proof of compliance. The Contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

All references hereunder are to Regulations of the Construction Regulations, 2003 issued under the Occupational Health and Safety Act, 1993 (Act No 85 of 1993),

The Contractor shall, in submitting his bid, demonstrate that he has made provision for the cost of compliance with the specified health and safety requirements, the Act and Construction Regulations

Fixed: _____ Value: _____
Time: _____

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118 **C11.1 NOTIFICATION OF CONSTRUCTION WORK
(Regulation 3)**

The Contractor shall, before commencing work, notify the Department of Labour of the intended construction work in terms of Regulation 3. The Contractor shall submit the notification in writing, on the appropriate form, prior to commencement of work

Fixed: _____ Value: _____
Time: _____

Item

119 **C11.2 HEALTH AND SAFETY PLAN (Regulation 5)**

The Contractor shall provide and demonstrate to the Principal Agent a suitable and sufficiently documented health and safety plan based on the Act, Construction Regulations and the health and safety specification, which shall be applied from the date of commencement of and for the duration of the construction work. The Contractor shall ensure that a copy of the health and safety plan is available on request to an employee, inspector, sub contractor or principal agent all in terms of Regulation 5

Fixed: _____ Value: _____
Time: _____

Item

120 **C11.3 REGISTRATION WITH THE COMPENSATION
FUND(Regulation 5.3)**

The Contractor shall provide proof of his registration and good standing with the Compensation Fund or a licensed compensation insurer prior to the commencement of work

Fixed: _____ Value: _____
Time: _____

Item

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121 **C11.4 HEALTH AND SAFETY FILE (Regulation 4.2)**

The Contractor shall ensure that a health and safety file, which shall include all documentation required in terms of the health and safety specification, the Act and the Construction Regulations, is opened and kept on site and made available to the Principal Agent or Inspector upon request. Upon completion of the works, the Contractor shall hand over a consolidated health and safety file to the principal agent

Fixed: _____ Value: _____
Time: _____

Item

122 **C11.5 SUPERVISION OF CONSTRUCTION WORK (SAFETY OFFICIER) (Regulation 6)**

The Contractor shall appoint a full-time competent employee in writing as the construction supervisor, with the duty of supervising the construction work. The Contractor shall appoint a full-time or part-time construction safety officer in writing to assist in the control of all safety related aspects on the site. Such appointments are required to ensure that at all times the requirements of the Act and Construction Regulations are adhered to. Refer to Regulation 6

Fixed: _____ Value: _____
Time: _____

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123 **C11.6 RISK ASSESSMENT AND SAFETY
POLICY(Regulation 7)**

Before commencing work the Contractor shall cause a risk assessment to be performed by a competent person appointed in writing and the risk assessment shall form part of the health and safety plan. A copy of the risk assessment shall be available on site at all times for inspection. The Contractor shall at all time carry out the works in a manner to avoid the risk of bodily harm to persons or risk of damage to any property. He shall take all precautions regarding training of employees in any hazards and the related work procedures, health and safety induction training of employees, visitors or any other persons entering the site and provide personal protective equipment to all employees and visitors to site which are necessary and adequate to eliminate any conditions which contribute to the risk of injury to persons or damage to property in terms of Regulation 7

Fixed: _____ Value: _____
Time: _____

Item

124 **C11.7 SIGNIFICANT HAZARDA IDENTIFICATION
RISK ASSESSMENT PREPARED BY THE DESIGN
CONSULTANTS**

The Contractor shall allow for additional financial provision, if any, to take the necessary precautions regarding the significant hazards and risks identified and assessed by the design consultants

Fixed: _____ Value: _____
Time: _____

Item

125 **C11.8 ADDITIONAL FINANCIAL PROVISION**

The Contractor shall allow for additional financial provision, if any, to comply with the requirements of the Occupational Health and Safety Act (Act No 85 of 1993) and the Construction Regulations issued there under which have not been specifically elsewhere provided

Item

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126 **C11.9 FALL PROTECTION PLAN(Regulation 8)**

The contractor shall, before commencing any construction work submit a fall protection plan identified all steps to be taken in order to ensure the continued adherence to the fall protection plan and shall include a risk assessment of all work carried out from an relevant position. The fall protection plan shall form part of the health and safety plan and file

Fixed: _____ Value: _____
Time: _____

Item

127 **C11.10 PHYSICAL AND PSYCHOLOGICAL FITNESS(Regulation 8.2(b))**

The contractor and sub-contractors shall before commencing any construction work submit proof of his employees that shall carried out work from an elevated position their physical and psychological fitness. And shall be recorded in the health and safety file

Fixed: _____ Value: _____
Time: _____

Item

128 **C11.11 CONSTRUCTION VEHICLES AND MOBILE PLANT**

The contractor and sub-contractors shall ensure that all operated workers received training and been certified competent to operate such vehicle, and are physical and psychological fit to operate such construction vehicles and mobile plants. And shall be recorded in the health and safety file

Fixed: _____ Value: _____
Time: _____

Item

129 **C11.12 TRAINING**

The contractor and sub-contractors shall, before commencing any construction work, submit his training program of all his employees. This program shall from part of the health and safety plan

Fixed: _____ Value: _____
Time: _____

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130 **C11.13 DEMOLITION WORK(Regulation 5)**
 The contractor shall, before any demolition work shall carried out, submit all method of demolition to be used. This method shall form part of the health and safety plan and file.
 Fixed: _____ Value: _____
 Time: _____

Item

131 **C11.14 REMOVAL AND DISPOSAL OF ASBESTOS MATERIAL(Asbestos Regulation)**
 The principal contractor shall appoint a contractor that is registered with the Department of Labour as an AIA. The contractor must allow for:
 NOTIFICATION OF ASBESTOS PROCESSING
 PERSONAL PROTECTIVE EQUIPMENT
 PACKAGING AND TRANSPORT AND STORAGE TO DISPOSAL SITE
 DEMOLITION WORK OF SHEETS
 LABELLING AND INFORMATION
 Fixed: _____ Value: _____
 Time: _____

Item

SUMMARY OF CATEGORIES

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Category: Time R

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SECTION 2:
BUILDING WORK

Item No		Quantity	Rate	Amount
	<p><u>SECTION NUMBER 2</u></p> <p><u>BILL NUMBER 1</u></p> <p><u>ALTERATIONS (PROVISIONAL)</u></p> <p>JBCC Work Group No. 102</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For Preambles see "PW371 - Specification of Materials and Methods to be used"</p> <p style="text-align: center;">-----</p> <p>NOTE : All materials from demolitions are to be removed from site unless otherwise stated.</p> <p>The whole of the old materials arising from the alterations shall become the property of the Contractor and shall be carted away from the site immediately as it becomes available.</p> <hr style="width: 30%; margin-left: 0;"/>			
1	<p>Bidders are notified that the existing buildings are presently occupied and employees will take out and remove their own furniture, fixtures and fittings before vacating any part of the premises. Tenderers shall liaise with the Architect to ascertain which furniture, fixtures and fittings form part of the building to be handed over for alterations before making allowances in respect thereof and before submitting a tender. The repairs and renovations to the offices will be one office at a time, must take in consideration that it will take longer to complete the office block</p>	Item		
2	<p>No services (ie. air conditioning, telephone systems, electricity, etc.) shall be disconnected or disturbed in any way by the Contractor without due notice to the Architect, who will make the necessary arrangements, etc., thereto. The Contractor shall be liable for any damage to this work and shall make same good at his own expense.</p>	Item		
	Carried to Collection		R	
	<p>Section No. 2 Bill No. 1 Alterations RUBIQUANT QUANTITY SURVEYORS</p>			

3	The removal of and alterations to the electrical and air conditioning installations shall be executed by direct sub-contractors (as elsewhere provided) and the Contractor shall be responsible for the co-ordination of such work with his own.	Item	
4	Prices for the demolition of any portion of the structure shall include for its demolition complete with all surface finishes such as plaster, screeds, etc., all attached items of joinery such as skirtings, etc., and all reinforcement, conduit, pipes, lintels, etc., built into that portion of the structure.	Item	
5	In taking down and removing existing work the utmost care shall be observed to avoid any structural or other damage to the remaining portions of the building. The Contractor shall cover up and protect from injury all work not removed and shall make good at his own expense any damage that may occur.	Item	
6	Provide and erect all casings and protection for and cover up all existing fittings, doors, windows, joinery work, walls, floors, etc., not disturbed during the alterations, clear away and make good on completion.	Item	
7	Provide, erect and remove when directed all temporary roof coverings, tarpaulins, dust and weatherproof screens and barriers that may be necessary as protection against inclement weather or other damage, to the Architect's satisfaction.	Item	
8	Allow for watering the Works with a jet or spray sufficiently to prevent any nuisance from dust during the alterations or demolitions.	Item	
9	Provide, erect and remove when directed all incidental shoring, needling, strutting, etc., that may be necessary while carrying out any portion of the Works to ensure stability of the premises with suitable and substantial timber and other materials. Prices for all items of demolition to form openings shall include for the provision of such support.	Item	
10	Prices for the removal of doors and frames shall include for the removal of fanlights, ironmongery, architraves and other associated trimmings.	Item	
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11 Prices for the removal of sanitary fittings shall include for the removal of copper service pipes, traps, brackets and cisterns.

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TEMPORARY BARRIERS & SCREENS

Temporary , barriers , screens , etc. including removal :

12	Dust screen 2.70m high between concrete floor and ceiling of suitable timber framing with 250 micron polyethylene sheeting stapled on , including corners , ends , etc.	m	22
----	---	---	----

TAKING OVER SITE (102)

13	Allow for taking over and verifying the site and existing structures thereon. Within three weeks of receiving possession of the site the Contractor shall check the extent, positions, salient dimensions and levels of the existing reinforced concrete frame and all other work constructed under the previous contracts and shall ascertain that they correspond with the positions, salient dimensions and levels of the Works as shown on the drawings issued for this Contract.		Item
14	In the event of any discrepancies being found the Contractor shall immediately notify the Architect thereof.		Item

REMOVAL OF EXISTING WORK

Break up and remove mass concrete:

15	Aprons, water channels and foundations	m3	16
----	--	----	----

Breaking up and removing reinforced concrete including cutting off and removing reinforcement:

16	Steps and landings	m3	5
17	Ramps	m3	9
18	100mm to 200mm Thick surface bed	m3	55

Taking out and removing doors, windows, etc

19	Timber single door and steel frame	No	54
20	Steel strongroom single door and frame	No	2
21	Single security gate	No	19

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22	Garage door	No	5	
	<u>Take out and remove built in cupboard doors, frames, shelves, cleats, bearers and shelving from brickwork.(new measured elsewhere)</u>			
23	Timber shelving approximately 2 100mm high, consisting of five timber shelves with wall brackets fixed to brickwork including making good to plaster	m	28	
24	Timber coat hooks approximately 3 600mm long, consisting of one timber rail with hooks fixed to brickwork including making good to plaster	m	8	
	<u>Taking out and removing kitchen units, etc.</u>			
25	Steel sink unit including removing sink, temporarily disconnecting services and reinstating when new cupboard and sink (elsewhere measured) installed	No	2	
26	Ditto, Floor unit	No	2	
	<u>Hacking up/off and removing granolithic, screeds, plaster, etc from concrete or brickwork and preparing surfaces for new screeds, plaster, etc:</u>			
27	Plaster from walls external	m2	62	
28	Plaster from walls internal	m2	78	
	<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>			
29	Ceramic tiles to walls	m2	88	
	<u>Hacking up/off and removing porcelain 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>			
30	Ceramic tile to floors	m2	565	
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Taking down and removing vinyl floor covering, carpet, ceiling, etc. and prepare to receive new

31	Gypsum plasterboard or fibre cement ceilings including cornices, cover strips, timber bandering, etc. (Provisional)	m2	553
32	Suspended ceiling exceeding 3m high above floor level to receive new suspended ceiling (elsewhere measured)	m2	93
33	Accoustic panels to court rooms	m2	59
34	Accoustic ceiling boards to court rooms walls	m2	24
35	Vinyl tile floor covering	m2	488
36	Carpet floor covering	m2	10
37	Timber skirtings from brickwork	m	853

Taking down and removing roofs, flashing, fascias, bargeboards etc

38	Roof sheeting, verge flashings and timber purlins.	m2	147
39	Fibre cement fascias and barge boards	m	773

Taking out and removing water piping, gutters, etc, including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paint work elsewhere):

40	Galvanised mild steel rainwater pipe and holderbats	m	393
41	Galvanised mild steel eaves gutter and brackets	m	198
42	22mm Galvanised steel piping including fittings and brackets	m	122
43	30mm Galvanised steel piping including fittings and brackets	m	24
44	50mm uPVC piping including fittings and brackets	m	40
45	110mm uPVC piping including fittings and brackets	m	78
46	15mm Copper piping including fittings and brackets	m	145

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47	22mm Copper piping including fittings and brackets	m	132
48	32mm Copper piping including fittings and brackets	m	92
<u>Take out carefully and remove sanitary fittings complete with all pipe work, fittings, etc., to receive new.</u>			
49	Wash hand basin	No	15
50	WC Suite consisting of pan and cistern complete	No	18
51	Urinal	No	2
52	Stainless steel single bowl sink 2 000mm on sink floor unit	No	2
53	High pressure water heater, including temporarily stopping off services (new geyser elsewhere)	No	3
<u>Taking out and removing ironmongery:</u>			
54	Remove pelmet and curtain track, including making good to plaster	m	45
55	Towel rails including making good to brickwork or tiling, etc.	No	4
56	Toilet roll holder including making good to brickwork or tiling, etc.	No	6
<u>Taking out and removing joinery fittings, etc.</u>			
57	Carefully remove all court room benches, tables, etc. and place in store for safe keeping	No	10
58	Carefully remove all loose furniture, cabinets, cupboard etc. and place in store for safe keeping	No	18
59	Carefully remove all waiting room benches and place in store for safe keeping	No	5
<u>Taking out and removing glass and mirrors.</u>			
60	Mirrors not exceeding 1,0 m2	m2	4
61	Glass panes from windows not exceeding 1,0 m2	m2	26

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**RUBIQUANT
QUANTITY SURVEYORS**

CUTTING THROUGH FLOORS AND CEILINGS

Cutting through floors

62	Cutting through 100mm thick concrete surface bed for trenching for piping not exceeding 150mm wide, including making good concrete	m	11
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MAKING GOOD OF FINISHES ETC

Service existing steel windows

63	Overhaul, adjust and service to ensure proper operation	No	47
64	Extra on servicing existing steel window sash for supply and fitting new handle	No	34
65	Extra on servicing existing steel window sash for supply and fitting sliding stay	No	34

Servicing of ironmongery :

66	Service existing mortice lock , oil and ease furniture and lock , replace missing keys , and refix with matching screws incl. ressetting striking plate .	No	21
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PREPARATORY WORK TO EXISTING SURFACES

Clean existing roof covering using a high pressure water cleaning system and steel brushes removing all loose paint, spawl and deliterious matter.

67	Corrugated roof sheeting.	m2	704
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Preparation to existing vertical surfaces

68	Chipping existing plaster to receive wall tiling (tiling elsewhere)	m2	34
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Preparation to existing horizontal surfaces.

69	Hack face of existing screeds to receive floor tiling (tiling elsewhere)	m2	488
70	Sand down, clean, prepare and varnish existing Hardwood floor covering according to Architect specification	m2	94

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**RUBIQUANT
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Making good cement plaster:

71	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	34
72	Chase out cracks in plastered brickwork to form groove, hack away plastered surface to form approximately 300 mm wide clean surface, fix chickenmesh over whole opening and plaster to a smooth surface to match existing	m	15

Pressure clean to remove all dirt, algae, etc., point and fill joints where necessary

73	On external facebrick work	m2	176
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Sundries:

74	Carefully cut out and remove damaged window cills from brick wall, pointing and repoint with 3:1 cement mortar to match existing with colour matched tinted mortar	m	45
75	Cut out for brass dividing strip or weather bar in existing concrete floor	m	76
76	Sand down existing surface not exceeding 500mm wide and prepare and seal with approved timber sealer.	m	17
77	Clean out existing conservancy tank in ground approximately 5000 x 3000 x 2000mm deep complete	No	1

Clean all concrete and paving surfaces and treat with weed poison

78	Concrete surfaces	m2	269
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PREVIOUSLY PAINTED SURFACES

General Notes:

All surfaces to be perfectly dry & in a fit state to receive paint before any application commences

ON PLASTER

Wash down, remove all loose & flaking paint, rake out all cracks & crevices and fill approved flexible acrylic sealant, spot prime and rub down to even surface to receive new paint.

79	On internal plastered walls	m2	1 134
80	On external plastered walls	m2	625

ON METAL

Prepare, removing all rust to bright metal, spot priming bare metal surfaces with zinchromate primer to receive new paint on:

81	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	15
82	On windows with burglar proofing (both sides measured)	m2	69

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	<u>BILL NUMBER 2</u>			
	<u>EARTHWORKS (Provisional)</u>			
	JBCC Work Group No. 104			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

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

	<u>EXCAVATION, ETC.</u>			
	<u>Excavation in earth not exceeding 2,00m deep</u>			
1	Reduce levels under floors	m3	149	
2	Trenches	m3	237	
3	Holes	m3	147	
	<u>Extra over all excavations for carting away</u>			
4	Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor	m3	319	
	<u>Risk of collapse of excavations</u>			
5	Sides of excavations not exceeding 1,50m deep	m2	1 146	
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	RUBIQUANT			
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	<u>Keeping excavations free of water</u>		
6	Keeping excavations free of water		Item
	<u>FILLING, ETC.</u>		
	<u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 95% Modified AASHTO density</u>		
7	Backfilling to trenches, holes, etc.	m3	160
	<u>Earth filling supplied by the contractor compacted to 90% Modified AASHTO density</u>		
8	Under floors, steps, pavings, etc.	m3	111
	<u>Compaction of surfaces</u>		
9	Compaction of ground surface under floors, etc. including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m2	656
	<u>SOIL POISONING</u>		
	<u>Soil insecticide</u>		
10	Under floors, etc., including forming and poisoning shallow furrows against foundation walls, etc., filling in furrows and ramming	m2	537
11	To bottoms and sides of trenches, etc.	m2	302

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	<u>BILL NUMBER 3</u>			
	<u>CONCRETE, FORMWORK AND REINFORCEMENT</u>			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>CONCRETE</u>			
	JBCC Work Group No. 110			
	<u>UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES</u>			
	<u>15MPa/19mm concrete</u>			
1	Surface blinding under footings and bases	m3	9	
	<u>20MPa/19mm concrete</u>			
2	Concrete infill between brick skins, cast in maximum 1500mm highs	m3	42	
	<u>REINFORCED CONCRETE</u>			
	<u>25 Mpa/19mm Concrete poured around reinforcement:</u>			
3	Strip footings	m3	55	
4	Surface beds	m3	55	
5	Ramp	m3	10	
6	Bases	m3	35	
7	Stub Columns	m3	3	
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<u>30MPa/19mm concrete poured around reinforcement:</u>			
8	Slab	m3	16
9	Beams	m3	17
10	Columns	m3	5
<u>TEST BLOCKS</u>			
11	Making and testing set of three of 150 x 150 x 150mm concrete strength test cubes (Provisional)	Sets	32
<u>CONCRETE SUNDRIES</u>			
<u>Finishing surfaces of concrete smooth with a wood float</u>			
12	Surface beds, slabs, etc.	m2	160
<u>Finishing surfaces of concrete smooth with a power float</u>			
13	Surface beds, slabs, etc.	m2	470
<u>MOVEMENT JOINTS, ETC.</u>			
<u>Concrete movement joint with 10mm polystyreen between vertical brick and concrete surfaces</u>			
14	Concrete movement joint	m	94
<u>Slip joints</u>			
15	Two layers 3 mm thick tempered masonite not exceeding 300 mm wide fixed horizontally in position between brick and concrete surfaces	m	94
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FORMWORK

JBCC Work Group No. 111

GENERAL FORMWORK

General formwork

16	Edges, risers, ends and reveals not exceeding 300mm high or wide	m	31
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Rough formwork to soffits

17	Slab propped up not exceeding 3.5m	m2	93
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Smooth formwork to sides and soffits of

18	Beams not exceeding 3.5m high	m2	146
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19	Columns not exceeding 3.5m high	m2	101
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REINFORCEMENT (Provisional)

JBCC Work Group No. 114

Fabric reinforcement

20	Type 245 fabric reinforcement in concrete surface beds, slabs, etc	m2	520
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21	Type 617 fabric reinforcement in concrete surface beds, slabs, etc	m2	17
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Mild steel reinforcement

22	8mm Diameter rods	t	15.28
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23	10mm Diameter rods	t	4.28
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High tensile steel reinforcement

24	12mm Diameter bars	t	12.32
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Concrete, Formwork & Reinforcement

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	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 4</u>			
	<u>MASONRY</u>			
	JBCC Work Group No. 118			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>FOUNDATION BRICKWORK (Provisional)</u>			
	<u>Brickwork of NFX bricks in 3 :1 cement mortar:</u>			
1	One brick walls	m2	36	
2	330mm cavity brick walls	m2	162	
	<u>SUPERSTRUCTURE BRICKWORK</u>			
	<u>Brickwork of hard burnt clay bricks in (6:1) cement mortar</u>			
3	330mm cavity brick walls	m2	290	
4	270mm cavity brick walls	m2	230	
5	One brick wall	m2	403	
6	Half brick wall	m2	110	
7	Half brick wall in beamfilling	m2	117	
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FACE BRICKWORK

Face bricks pointed with horizontal and vertical joints to match existing

8	Extra over brickwork for face brickwork	m2	25
9	Brick-on-edge header course coping to top of one brickwall, built fair and pointed on top and both edges	m	23

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<u>BRICKWORK SUNDRIES</u>					
<u>Joint forming material in movement joints</u>					
10	12mm Bitumen impregnated fibre board built in vertically between brick skins (Provisional)	m2	12		
<u>Brickwork reinforcement</u>					
11	75mm Wide reinforcement built in horizontally	m	4 311		
12	150mm Wide reinforcement built in horizontally	m	1 296		
<u>Prestressed lintels</u>					
13	100 x 70mm Lintels in lengths not exceeding 3m	m	72		
<u>Turning pieces</u>					
14	220mm Wide turning piece to lintels, etc	m	2		
<u>Galvanised hoop iron cramps, ties, etc</u>					
15	32 x 1,6mm Roof tie 1600mm long with one end fixed to timber and other end built into brickwork	No	375		
<u>Air bricks, etc. (Provisional)</u>					
16	230 x 150mm Clay vermin proof air brick	No	8		
<u>SILLS, ETC</u>					
<u>Fibre cement sills including galvanised lugs and fixing to brickwork to match existing</u>					
17	Internal sill set flat and slightly projecting	m	19		
<u>Tiled sills including galvanised lugs and fixing to brickwork to match existing</u>					
18	External sill set sloping	m	19		
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Masonry

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	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 5</u>			
	<u>WATERPROOFING</u>			
	JBCC Work Group No. 120			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>DAMPPROOFING OF WALLS AND FLOORS</u>			
	<u>One layer of 375 micron embossed polyethylene damp proof course</u>			
1	In walls, below sills, etc.	m2	72	
	<u>One layer of 250 micron polyethylene waterproof membrane sealed at laps with pressure sensitive tape</u>			
2	Under surface beds	m2	537	
	<u>SHEET STEEL FLASHINGS, LININGS, COPINGS, ETC</u>			
	<u>0.8mm Z275 galvanised steel with "Chromadek" finish one side and standard backing coat</u>			
	<u>FLASHINGS</u>			
3	"Sealoflex G2" cover flashing or other approved, sealed to wall and over roofing, etc., in strict accordance with the manufacturer's instructions, or other approved	m2	23	
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	Section No. 2 Bill No. 5 Waterproofing RUBIQUANT QUANTITY SURVEYORS			

WATERPROOFING TO ROOFS

Derbigum roofing to low-slope (flat) screeded concrete roofs or other approved

4 One layer SP4 waterproofing membrane, with 75mm side and 100mm end laps, sealed to bitumen primed surface to falls and cross falls by 'torchfusion' finished with two coats bitumenous aluminum paint.
(Waterproofing to be installed by an Approved Contractor under a ten year guarantee)

m2

93

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Waterproofing

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	<p><u>SECTION NUMBER 2</u></p> <p><u>BILL NUMBER 6</u></p> <p><u>ROOF COVERINGS, ETC.</u></p> <p>JBCC Work Group No. 122</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For Preambles see "PW371 - Specification of Materials and Methods to be used"</p> <p align="center">-----</p> <p><u>PROFILED METAL SHEETING AND ACCESSORIES</u></p> <p><u>Global Roofing Solutions or equal and approved @ 700,58mm thick 700mm cover Klip-Tite™ profile Z275spelter ISQ550 galvanised steel roof sheeting, fixed totimber intermediate purlins at 600mm centres andeaves and ridge purlins at 600mm centres usingKL700 clips fixed with 10No.16 x 16mm long selfdrilling wafer head PH2 screws, No. 3 drill pointfasteners, all in accordance with the manufacturer'sspecifications.</u></p> <p><u>CORRUGATED METAL SHEETING AND ACCESSORIES</u></p> <p><u>0,6mm Full hard corrugated single spelter galvanised sheet steel fixed to timber purlins or rails, with a chromadek coating to architects specification and colour:</u></p>			
1	Roof covering with pitch not exceeding 25 degrees	m2	376	
2	Roof covering with pitch exceeding 25 degrees	m2	187	
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	<p>Section No. 2 Bill No. 6 Roofcovering RUBIQUANT QUANTITY SURVEYORS</p>			

	<u>0,6mm Full hard corrugated single spelter galvanised sheet steel fixed to Steel members or rails, with a chromadek coating to architects specification and colour:</u>		
3	Roof covering with pitch not exceeding 25 degrees	m2	186
	<u>0,6mm Full hard corrugated single spelter galvanised sheet steel fixed to timber purlins or rails, complete with Ridge/Hip flashings manufactured by Global Roofing Solutions upon special request to match existing roof coovering (Paint measured elsewhere):</u>		
4	Roof covering with pitch exceeding 25 degrees	m2	503
	<u>0,8mm Global Roofing Solutions or equal and approved complete with fixing brackets , all in accordance with the manufacturer's specifications.</u>		
5	Ridge capping	m	119
6	Eave flashing	m	164
7	Head wall flashing 375mm girth	m	42
8	Cover flashing	m	84
9	Hip capping	m	29
10	Side wall flashing 460mm girth	m	10
11	Valley gutter lining, three times bent and dressed into valleys and over battens (elsewhere) with minimum 300mm end laps.	m2	34
	<u>ROOF INSULATION</u>		
	<u>Sisalation 420' heavy industrial grade reinforced aluminium foil and polyethylene insulation</u>		
12	Insulation laid taut over purlins (at maximum 1000mm centres) and fixed concurrent with roof covering, including galvanised steel straining wires	m2	986

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Roofcovering
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Roofcovering

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Bill No. 6

Roofcovering

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	<p>Section No. 2 Bill No. 7 Carpentry and Joinery RUBIQUANT QUANTITY SURVEYORS</p>			

GENERAL

TRUSS LOADING

The trusses have to be designed for a live load of 0,50kN/m²

The dead load of the trusses shall be to accommodate concrete roof tiles on 38 mm x 38 mm SA Pine battens, a gypsum and / or fibre cement board ceiling nailed on 38 x 38 mm brandering at 450 mm centres in both directions and 75 mm insulation wool

TRUSS DESIGN

All trusses shall be designed by a Registered Professional Engineer (in accordance with the SABS Code of Practices for the Design of Timber Structures)

TRUSS PITCH

The truss pitch shall be as described in the Bills of Quantities for each respective truss type

PREFABRICATED TIMBER ROOF TRUSSES (PROVISIONAL)

The following in plate nailed timber roof trusses with a pitch not exceeding 27,5°, from an approved supplier, delivered to site, hoisted into position, fixed and braced on timber wall plates.

- 1 Single pitch timber roof truss construction with 2 degree slope, 200mm over-hang both sides and tie beam spanning 8.00 - 14.00m, complete for L-Shaped Walkway covering size 13m x 4m wide and 14m x 4m wide approximately, with 1.2m spacing between trusses, including cross bracing etc.

Note: price for complete roof construction for hole building excluding wall plates, and purlins.

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2	<p>Single pitch timber roof truss construction with 2 degree slope, 200mm over-hang both sides and tie beam spanning 8.00 - 11.00m, complete for Walkway covering size 11m x 3m wide approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
3	<p>Double pitch timber roof truss construction with 10 degree pitch, 400mm over-hang both sides and tie beam spanning 2.00 - 3.00m, complete for walkway size 11m x 3m approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
4	<p>Double pitch timber roof truss construction with 10 degree pitch, 400mm over-hang both sides and tie beam spanning 2.00 - 3.00m, complete for walkway size 8m x 3m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into roof truss construction for guard house building</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
5	<p>Double pitch timber roof truss construction with 10 degree pitch, 400mm over-hang both sides and tie beam spanning 2.00 - 3.00m, complete for walkway size 8m x 3m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into existing concrete slab</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
6	<p>Double pitch timber roof truss construction with 10 degree pitch, 400mm over-hang both sides and tie beam spanning 2.00 - 3.00m, complete for walkway size 5m x 3m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into 15degree stop walkway roof</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1

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 Carpentry and Joinery
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7	<p>Single pitch timber roof truss construction with 15 degree slope, 200mm over-hang one sides fix to wall on the high side and tie beam spanning 2.00 - 3.00m, complete for Walkway covering size 6m x 2.5m wide approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1	
8	<p>Single pitch timber roof truss construction with 15 degree slope, 200mm over-hang one sides fix to wall on the high side and tie beam spanning 2.00 - 3.00m, complete for Walkway covering size 8m x 2.5m wide approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1	
9	<p>Double pitch timber roof truss construction with 15 degree pitch, 400mm over-hang both sides and tie beam spanning 4.00 - 5.00m, complete for walkway size 5m x 4m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into brickwork</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1	
10	<p>Hipped pitch timber roof truss construction with 18 degree pitch, 600mm over-hang both sides and tie beam spanning 4.00 - 5.00m, complete for walkway size 5m x 5m approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1	
11	<p>Double pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 4.00 - 5.00m, complete for building new ablution size 5m x 4m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into existing roof covering</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1	
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12	<p>Double pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 7.00 - 8.00m, complete for building new magistrate office size 9m x 6m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into existing roof covering</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
13	<p>Hipped pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 7.00 - 8.00m, complete for New waiting area building size 8m x 6m approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
14	<p>Double pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 6.00 - 7.00m, complete for building new cell block office size 13m x 7m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into new roof construction approximately 6m wide to form valleys</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
15	<p>Double pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 5.00 - 6.00m, complete for building new cell block office size 8m x 6m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into new roof construction approximately 6m wide to form valleys</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1

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**RUBIQUANT
 QUANTITY SURVEYORS**

16	<p>Double pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 10.00 - 11.00m, complete for building new cell block size 10m x 10m approximately, with 1.2m spacing between trusses, including cross bracing etc. including tie into new roof construction approximately 6m wide to form valleys</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
17	<p>Double pitch timber roof truss construction with 30 degree pitch, 600mm over-hang both sides and tie beam spanning 6.00 - 7.00m, complete for building new cell block size 10m x 7m approximately, with 1.2m spacing between trusses, including cross bracing etc.</p> <p>Note: price for complete roof construction for hole building excluding wall plates, and purlins.</p>	No	1
<u>ROOF CONSTRUCTION</u>			
<u>Sawn South African Softwood</u>			
18	38 x 114mm Wall plates	m	445
19	50 x 50mm Purlins	m	1 183

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 Carpentry and Joinery
**RUBIQUANT
 QUANTITY SURVEYORS**

<u>Sundries</u>					
20	18mm thick shutter board screwed to 114x38mm timber trusses at 450 centres with steel woodscrews (countersunk size 4mm diameter and a length of 75mm)	m2	118		
21	Teco two way hurricane clips	No	452		
22	150x50 Steel shoe made from 3mm thick with a back plate ,with slotted holes to take M12 bolts (chemical for fixing to wall). The Flanges to have slotted holes to take M12 Stainless Steel bolts with Nuts to fixed the timber to the shoe	No	63		
23	Two coats ABE Provonite on roof timbers	m2	472		
<u>EAVES, VERGES, ETC.</u>					
<u>Pressed fibre cement</u>					
24	15 x 225mm Nutec fibre cement fascia board screwed to splayed purlin and soffit purlin with galvanized grabber screws at 600mm centres	m	609		
25	15 x 225mm Angle section barge boards including aluminium H-profile jointing strips.	m	164		
<u>SKIRTINGS</u>					
<u>Wrought hardwood</u>					
26	19 x 75mm Moulded meranti skirting with quarter round	m	62		
<u>CORNICE, ETC.</u>					
<u>Wrought hardwood</u>					
27	40 X 20 mm Hardwood cornice with 10 x 10 mm shadow recess (Provisional)	m	680		
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Section No. 2 Bill No. 7 Carpentry and Joinery RUBIQUANT QUANTITY SURVEYORS					

DOORS

"Max on Top" solid core door with four concealed edges, Pre-coated with high pressure laminate by manufacturer both sides or other approved as specified by architect

28	40mm Thick door size 813 x 2032mm high	No	35
29	40mm Thick double door size 988 x 2130mm high	No	1

BABY CHANGING STATION

"Guri S.A t/a Candid Baby" or other approved

30	Candid Baby changing station (KB200) horizontal, surface mounted size 894mm x 565mm high, Depth closed: 102mm, Depth open: 589mm complete as per architect specification	No	2
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BEADS, ARCHITRAVES, ETC.

Wrought hardwood

31	32 x 70 mm Profiled and grooved weather bar with and including sealing at joint with door	m	19
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JOINERY FITTINGS

THE FOLLOWING IN WORKTOPS, ETC.

Worktop of 32mm thick high pressure Laminate finish

32	Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets (SUP001) with matching fascia including zink cut out and fitment to detail (See detail at the back of Bill of Quantities TOP001).	m	2
33	Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets (SUP001) to detail (See detail at the back of Bill of Quantities TOP057-TOP060).	m	13

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Section No. 2
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**RUBIQUANT
QUANTITY SURVEYORS**

	<u>Worktop of 30mm thick solid surface finish</u>				
34	Worktop 600mm wide with bevelled edges, fixed to wall with suitably sized brackets (SUP001) with matching fascia to detail (See detail at the back of Bill of Quantities TOP013).	m	1		
	<u>THE FOLLOWING IN COUNTER, WORKSTATION, ETC.</u>				
	<u>Prefabricated Factory Finished Cupboards as per the Architect's specifications</u>				
	The following cupboard fittings have been measured as complete units, i.e. the components of the units have not been separately measured. The descriptions, therefor, of such units shall be deemed to include all components, assembling, housing, notching, gluing, blocking, planting on and screwing with countersunk screws, edge strips, decorative plastic laminate of approved colour and pattern, glass, ironmongery, metalwork, etc				
	<u>Notes:</u>				
	All cupboards are to be from a reputable manufacturer of melamine cupboard units. Cupboard doors to have laminated finish, with shelving and interior colour to architects specification. Doors to be hung on adjustable concealed hinges. Work tops to be of approved tops, sealed at edges and joints				
	FU = Floor mounted unit WU = Wall mounted unit				
35	Floor unit FU size 450 x 560 x 880mm high with one cupboard (See cupboard detail under Drawings CUPF001)	No	1		
36	Floor unit FU size 560 x 450 x 880mm high with four drawers (See cupboard detail under Drawings CUPF003)	No	3		
37	Floor unit FU size 900 x 560 x 880mm high with two cupboards (See cupboard detail under Drawings CUPF004)	No	4		
	Carried to Collection			R	
	Section No. 2 Bill No. 7 Carpentry and Joinery RUBIQUANT QUANTITY SURVEYORS				

38	Floor unit FU size 1000 x 560 x 880mm high with two cupboards (See cupboard detail under Drawings CUPF005)	No	2		
39	Floor unit FU size L-Shaped 900 x 560 x 880mm and 900 x 560 x 880mm high with two cupboards (See cupboard detail under Drawings CUPF006)	No	1		
40	Floor unit FU size 450 x 600 x 2040mm high with one cupboard (See cupboard detail under Drawings CUPF007)	No	1		
41	Floor unit FU size 450 x 560 x 718mm high with one cupboard (See cupboard detail under Drawings CUPF016)	No	4		
42	Infill panel approximately 880mm high (See cupboard detail under Drawings CUPF018)	No	2		
43	Floor unit FU size 450 x 560 x 718mm high with three drawers (See cupboard detail under Drawings CUPF022)	No	3		
44	Floor unit FU size 450 x 560 x 718mm high with three drawers (See cupboard detail under Drawings CUPF023)	No	10		
45	Floor unit FU size 900 x 560 x 680mm high with two cupboards (See cupboard detail under Drawings CUPF054)	No	1		
46	Floor unit FU size 800 x 315 x 1505mm high with two cupboards (See cupboard detail under Drawings CUPF082)	No	3		
47	Wall cupboard WU 800mm wide x 300mm and 720mm high, with two cupboards (See cupboard detail under Drawings CUPW005)	No	3		
48	Wall cupboard WU 650mm wide x 300mm deep top with 450mm deep bottom and 720mm high, (See cupboard detail under Drawings CUPW016)	No	3		
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RUBIQUANT					
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THE FOLLOWING IN STORAGE SHELVES

Laminated SA Pine

49	22 x 400 mm Wide laminated SA pine shelves with 16 x 16 mm hardwood edging fixed to frame	m	28
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Mobil storage units

50	Light Grey epoxy coated mobile shelving 1827mm wide x 380mm deep x 2645mm high shelving units consisting of 900mm modules with three steel tracks at 900mm centres as per approval of Architect (Layout at back of Bill of Quantities)	No	10
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Section No. 2
Bill No. 7
Carpentry and Joinery
**RUBIQUANT
QUANTITY SURVEYORS**

COURT ROOM JOINERY FITTINGS

**PREPARATORY WORK TO EXISTING COURT ROOM
FURNITURE**

51	Sand down and repair existing Magistrate bench and prepare and seal as per Architect Specification	No	1
52	Sand down and repair existing Witness box and prepare and seal as per Architect Specification	No	1
53	Sand down and repair existing Accused box and prepare and seal as per Architect Specification	No	1
54	Sand down and repair existing Accoustic Panel, size 1500 x 1 500mm high, and prepare and seal as per Architect Specification	No	8
55	Sand down and repair existing Public Bench and prepare and seal as per Architect Specification	m	28
56	Sand down and repair existing Public barrier and prepare and seal as per Architect Specification	m	8

Carried to Collection

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Section No. 2
Bill No. 7
Carpentry and Joinery
**RUBIQUANT
QUANTITY SURVEYORS**

Item No		Quantity	Rate	Amount
	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 8</u>			
	<u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u>			
	JBCC Work Group No. 128			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>NAILED UP CEILINGS</u>			
	<u>4 mm Pressed fibre cement boards with 50 x 6 mm fibre cement cover strip including 38 x 38 mm sawn softwood branderling at 450 centers against walls</u>			
1	Ceilings including 38 x 50mm sawn softwood branderling at 450mm centres	m2	553	
2	Extra over ceiling for forming trap door size 600 x 600 mm (Provisional)	No	14	
	Carried to Collection			R
	Section No. 2 Bill No. 8 Ceilings, Partitions & Access Flooring RUBIQUANT QUANTITY SURVEYORS			

SUSPENDED CEILINGS

600 mm Wide x 1200 mm long x 12,7 mm thick acoustic board suspended ceiling panels with fissured embossed vinyl laminated finish on pre-painted white exposed tee suspension system including main and cross sections, hangers and angles, grids complete, installed strictly to manufacturer's specifications. Colour and finish to Architect's approval

3	To ceilings suspended exceeding 0,5m and not exceeding 2m below timber purlins, Suspended ceiling exceeding 3m above ground ant not exceeding 9m above ground	m2	93
4	Extra over ceiling for forming trap door size 600 x 600mm (Provisional)	No	1
5	19 x 25mm "LSM25" Recessed wall angle with colour and finish to Architect's approval	m	40

CEILING INSULATION

Resin bonded glass fibre insulation in blanket form

6	100mm Insulation laid over brandering	m2	553
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Section No. 2
Bill No. 8
Ceilings, Partitions & Access Flooring
**RUBIQUANT
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Section No. 2

Bill No. 8

Ceilings, Partitions & Access Flooring

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Bill No. 8

Ceilings, Partitions & Access Flooring

**RUBIQUANT
QUANTITY SURVEYORS**

Item No		Quantity	Rate	Amount
	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 9</u>			
	<u>FLOOR COVERINGS, WALL LININGS, ETC.</u>			
	JBCC Work Group No. 130			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>FLOOR COVERINGS</u>			
	<u>Polyflor type Abrasion Res. Pearlazzo PUR - Flexible vinyl Sheeting, laid in accordance with manufacturers' specifications. or other approved by architect</u>			
1	On floors	m2	10	
	<u>POLISH, SEALERS, ETC</u>			
2	Prepare, strip with an approved vinyl wax stripper, and apply 3 coats heavy duty commercial vinyl floor sealant and mechanically buff up to high gloss finish	m2	10	
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	Section No. 2 Bill No. 9 Floor Coverings RUBIQUANT QUANTITY SURVEYORS			

EDGES, ETC.

Aluminium dividing strips

3	12mm High M-Trim mill finish dividing strip in concrete thresh hold (Code: AFTIR120) or other approved	m	42	
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ENTRANCE MAT

Matco

4	2000 x 3200mm X 13mm Matco Super Scraper interior entrance mat (Code 2404), consisting of 100% polypropylene needle ribs alternated with perforated polyamide brush strips, loose laid with PVC edging, allin accordance with the manufacturer's recommendations or other approved	No	2	
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Bill No. 9
Floor Coverings
**RUBIQUANT
QUANTITY SURVEYORS**

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Bill No. 9

Floor Coverings

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Bill No. 9

Floor Coverings

RUBIQUANT

QUANTITY SURVEYORS

Item No		Quantity	Rate	Amount
	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 10</u>			
	<u>IRONMONGERY</u>			
	JBCC Work Group No. 132			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>LOCKS, CLOSERS, CATCHES,ETC.</u>			
	<u>All ironmongery as codes by ASSA ABLOY or other approved</u>			
1	"Union" 2915SC Rebate set SC	No	95	
2	Assa Abloy 65mm Patented Double Cylinder GMK Commercial Use Double Cylinder to BSEN... Current Certificate on Request. master keyed	No	21	
3	21314-76/8SS "Union" WC 8mm Deadlock SS	No	13	
4	Union Euro Cyl Lock No Cyl. 108 x 78mm Commercial Grade Lockcase with Drawback Latch and Silent Latch Feature.	No	10	
5	L-2349-78SS Anti Thrust Night Latch W/O Cyl. 129 x 78mm Commercial Grade Emergency Exit Latch Lock Tested to BS-EN12209-2003 , Documentation on Request.	No	1	
6	L-2109-78SS Union Euro Cyl DeadLock Case SS . 108 x 78mm Commercial Grade Lockcase, Powder Coated, Brass Component Tested to BS-EN12209- 2003, Documentation on request SABS Certified, Current Certification on Request.	No	11	
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	Section No. 2 Bill No. 10 Ironmongery RUBIQUANT QUANTITY SURVEYORS			

**BERGVILLE MAGISTRATE OFFICE
REPAIR AND RENOVATIONS**

7	Assa Abloy 65mm Knob Turn Patented Commercial Use Double Turn Knob Cylinder to BSEN Current Certificate on Request.	No	1		
8	SS5305-05SS Escutcheon on Rose profile	No	28		
9	Adjustable roller catch (Code: ARC1182SS)	No	1		
10	DC300DA "ASSA ABLOY" R&P Door closer EN3-6 DA SIL complete	No	15		
11	DC500 cam action door closer EN1-4 SIL	No	1		
12	Heavy Duty Spring Door Holder. (Code: B3440SC)	No	2		
<u>CELL LOCKS</u>					
13	Provide a budgetary allowance of Thirty Two Thousand Rand (R32'000.00) (This sum will be deducted from the contract) for Cell Locks provided to the Contractor (taking delivery and fixing elsewhere)			Item	32 000.00
14	Allow for profit			Item	
15	Allow for taking delivery, storing on site and fixing in position only	No	1		
<u>ACCESS CONTROL</u>					
<u>Multi door access control</u>					
16	Allow the PC amount of One Hundred Thousand Rand (R 100 000.00) for Access control complete			Item	100 000.00
17	Allow for profit and attendance			Item	
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Section No. 2 Bill No. 10 Ironmongery RUBIQUANT QUANTITY SURVEYORS					

SECURITY

HISCO or other approved

18	"RScan-D8000A" or similar approved Walkthrough Metal Detector	No	1
19	"HS 5030" or similar approved security x-ray inspection system	No	1

Tactical distributors SA or other approved

20	BPT Bullet trap	No	1
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HINGES, BOLTS, ETC.

21	Butt Hinge EN1935:2002 Class 13. 102 x 76mm Ball Bearing Hinge to EN1935:2002.	No	147
22	Rising Butt Hinge handed EN1935	No	18
23	"ART" 208C91 L/flush bolt 150mm (Code: AL8208-150AS)	No	1
24	"ART" 208C91 L/flush bolt 225mm (Code: AL8208-225AS)	No	1

HANDLES

25	SS5D67TR/TL-5004SS Union Dove Pull Handle on 152mm x 178mm Backplate + W/C Indicator included (To be Handed RH/LH)	No	26
26	SS5DBT0694x315 S/S Pull Handle 25mmØ x 250mm ctc on 94 x 315mm S/S Back Plate.	No	22
27	Dove Lever Handle On 152 x 178mm Backplate- Profile. As per Assa Abloy Architect Approved Sample.	No	10
28	Dove pull Handle On 192 x 45mm Backplate- Profile. As per Assa Abloy Architect Approved Sample.	No	1
29	5213BTSS 350mm Pull Handle bolt thru	No	3
30	SS5213BBSS Union 350mm Stainless steel back to back "D" shaped pull handles	No	2

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Section No. 2
Bill No. 10
Ironmongery
**RUBIQUANT
QUANTITY SURVEYORS**

DOOR STOPS

"Assa Abloy"

31	87001SS Floor door stop satin SS	No	24
32	99011SS Wall door stop satin SS	No	33
33	99022SS Wall projection door stop satin SS	No	33
34	SS8025SS Hat & Coat hook with buffer	No	21

HAT AND COAT HOOK

"Union" or other approved

35	AL8104AS Hat & Coat hook 500mm long	No	2
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SUNDRIES

36	8852SC, Dust proof strike	No	2
37	Hychem or other approved Broom and Mop hook complete as per Architect specification	No	1

DOOR PROTECTION PLATES

"Solid" or other approved

38	300 x 800mm kick plate fix with counter sunk screws	No	50
39	300 x 800mm bumper plate fix with counter sunk screws	No	94
40	continuous 900 x door thickness x 20mm channel edge protector fix with counter sunk screws	No	47
41	continuous 900 x door thickness x 20mm channel edge protector complete with hinge cut out fix with counter sunk screws	No	47

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Bill No. 10
Ironmongery
**RUBIQUANT
QUANTITY SURVEYORS**

LETTERS, NAMEPLATES, ETC.

"Union Dove" 152 x 178 x 2mm Thick brass sign plate

42	SS5066-06SSE10, Male indicator sign	No	2
43	SS5066-06SSE11, Female indicator sign	No	2
44	SS5066-06SSE14, Paraplegic toilet sign	No	3
45	SS5066-06SSE17, Cleaner mop & bucket sign	No	1
46	SS5066-06SSE, Fire extinguisher sign	No	6
47	SS5066-06SSE19 Infant indicator sign	No	1

Signage

48	Provide the PC amount of Eighty Thousand Rand (R80'000.00) for supply and installation of signage complete		Item	80 000.00
49	Allow for profit and attendance		Item	

Aluminium plates

50 x 50 Aluminium Engraved door number plate

50	Sign with one letter or numeral	No	47
51	Ditto, but with two letter or numeral	No	18

Department Of Justice Emblem

52	Allow the PC amount of Fourty Thousand Rand (R 40 000.00) for Department Of Justice Emblem and inauguration plate complete		Item	40 000.00
53	Allow for profit and attendance		Item	

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Section No. 2
Bill No. 10
Ironmongery
**RUBIQUANT
QUANTITY SURVEYORS**

BLINDS

Wood alloy venetian blinds or similar and approved Mahogany E 1.26 wood blind 50mm slat Basswood blind

54	Window size 533 x 945mm high	No	1
55	Window size 920 x 1500mm high	No	4
56	Window size 975 x 1800mm high	No	5
57	Window size 1022 x 1500mm high	No	9
58	Window size 1066 x 1500mm high	No	1
59	Window size 1160 x 1500mm high	No	1
60	Window size 1300 x 1500mm high	No	1
61	Window size 2000 x 1500mm high	No	6

GRAB RAILS

"Stainless Steel Design"

62	STANDARD 300 x 300 x 300 x 80mm projecting dog leg side rail (KB26) as by Stainless Steel Design. Installed strictly to manufacturers specifications.	No	4
63	STANDARD 800 long X 150 mm projecting straight disabled rail (KB18) as by Stainless Steel Design. Installed strictly to manufacturers specifications.	No	4

CORNER PROTECTORS

64	1200 mm High x 5mm thick stainless steel corner protector fix with approved epoxy	No	15
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Bill No. 10
Ironmongery
**RUBIQUANT
QUANTITY SURVEYORS**

BATHROOM FITTINGS

"Franke" or other approved

65	Franke Chronos STRX 600,1,2mm thick Grade 304 18/10 satin stainless steel paper towel dispenser (code: 2120038), size 300 x 305 x 134mm deep with capacity of 300-400 towels, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.	No	7
66	Standard stainless steel wall mounted lockable toilet roll holder as by FRANKE Washroom Accessories - Model - STRX 672 - 2120044, Installed strictly to manufacturers specifications	No	14
67	INGE metal craft Standard vandal resistant Stainless steel wall recessed Toilet Roll holder Code - RTRH 0114. Core drill and epoxy grout Unit on to plastered brick wall with an approved grout. Ensure unit to have a flush fit all-round. Pre-approve sample installation.	No	4
68	Franke Chronos STRX605 1.2mm thick Grade 304 18/10 stainless steel waste disposal bins (Product Code: 2120048), size 520 x 300 x 270mm deep with waste bin capacity of 34 litres, plugged and screwed to the wall with stainless steel screws. Installed strictly to manufacturers specifications.	No	4
69	Standard stainless steel wall mounted soap dispenser as by FRANKE Washroom Accessories - Model – STRX618 - (Product Code :2120041) , Installed strictly to manufacturers specifications.	No	10
70	500 x 600 model MH600R Chronos reflective polished surface mirror with concealed fixings Installed strictly to manufacturers specifications.	No	8
71	Finda classic rage 800mm long double towel rail in mirror polished	No	8

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Section No. 2
 Bill No. 10
 Ironmongery
**RUBIQUANT
 QUANTITY SURVEYORS**

HAND AND CUFF RAIL

72 30mm Diameter (2mm wall thickness) stainless steel hand cuff rail 3 000mm long, fixed to wall with 4 x M10 full threaded bolts, chemically anchored in wall through 150 x 150 x 6mm mild steel base plate at 1 000mm centres (POL2012/B1)

No

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Section No. 2
Bill No. 10
Ironmongery
**RUBIQUANT
QUANTITY SURVEYORS**

**PINNING BOARDS, WRITING BOARDS,
PROJECTION SCREENS, ETC**

"Parrot Combi" white board and non-magnetic felt pinboard BD3070 with concealed mounting, slide-in aluminium pentray, size 450 x 35mm, and an aluminium frame with a 10mm wide H-bar divider, to be supplied with all necessary fixing components or other approved

73	Wall mounted notice board size 1 500 x 1 000mm high	No	4
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Vitrex System 2000 or similar approved vitreous enamelled pinning boards and fixing to manufacturers' instructions or other approved

74	Pinning board size 1 500 x 1 000mm high and fixing to walls	No	7
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BENCHES

"Office world" silver line benches (or other approved)

75	Two seater size 1 220mm long x 680mm wide x 800mm high	No	2
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76	Three seater size 1 800mm long x 680mm wide x 800mm high	No	2
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77	Four seater size 2 420mm long x 680mm wide x 800mm high	No	6
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78	Four seater and table size 3 050mm long x 680mm wide x 800mm high	No	1
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79	Five seater and table size 3 660mm long x 680mm wide x 800mm high	No	1
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Ironmongery
**RUBIQUANT
QUANTITY SURVEYORS**

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Bill No. 10

Ironmongery

RUBIQUANT

QUANTITY SURVEYORS

Item No	Quantity	Rate	Amount
<p><u>SECTION NUMBER 2</u></p> <p><u>BILL NUMBER 11</u></p> <p><u>METALWORK</u></p> <p>JBCC Group No. 136</p> <p><u>SUPPLEMENTARY PREAMBLES</u></p> <p>For Preambles see "PW371 - Specification of Materials and Methods to be used"</p> <p style="text-align: center;">-----</p> <p><u>Descriptions</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers.</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.</p> <p>Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolt unless otherwise described.</p> <p>Metalwork described as "screwed" shall be deemed to include holes and screws.</p>			
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<p>Section No. 2 Bill No. 11 Metalwork RUBIQUANT QUANTITY SURVEYORS</p>			

MILD STEEL BALUSTRADES

Welded balustrades to stairs, passages, etc.

1	60 mm x 2 mm Thick Circular hollow section top rail	m	14
2	32 mm x 2 mm Thick Circular bottom rail	m	14
3	12 mm Round solid section upright welded between top and bottom rails	m	6
4	32 mm x 3 mm Thick Circular hollow section baluster welded between top rail and base plate	m	5
5	100 mm x 30 mm x 2 mm Thick flat base plate twice holed for bolts in concrete (bolts elsewhere measured)	No	5
6	10 mm Diameter expansion bolts	No	19

Extra over 60 mm x 2 mm Thick Circular hollow section top rail

7	T-intersection with 10 mm x 10 mm stanchion	No	24
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Extra over 32 mm x 2 mm Thick Circular bottom rail

8	T-intersection with 10 mm x 10 mm stanchion	No	24
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PRESSED STEEL DOOR FRAMES

1,6mm Double rebated frames suitable for half brick walls

9	Frame for door 813 x 2 032mm high	No	9
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1,6mm Double rebated frames suitable for one brick walls

10	Frame for door 813 x 2 032mm high	No	26
11	Frame for double door 1613 x 2032mm high	No	1

Carried to Collection

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Section No. 2
Bill No. 11
Metalwork
**RUBIQUANT
QUANTITY SURVEYORS**

STEEL STRONGROOM DOORS, VENTILATORS, ETC

"Mutual Safes" Strongroom doors etc suitable for 230mm walls fixed to brickwork or concrete or other approved

12	DS50/1 Category 1 strongroom door and frame with a mass of 650 kg	No	2
13	Double ended strongroom ventilator	No	2

GARAGE DOOR

Note: Tenderers are referred to architect's drawing attached to these bills of quantities for tender purposes

Coroma Corosteel steel sectional manually operated garage door with 32mm diameter punched infill options with surface to receive powder coating (colour to be selected):

14	Garage door size 2500 x 2125mm high as specified by architect	No	5
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ACCESS CONTROL TURNSTILE

Electronically Controlled Turnstiles with side gate

15	Flow Systems Model 356 electronically controlled double electrical bi-directional 4-arm (90°) revolving turnstile, overall size 2180 x 1200 x 2181mm high painted mild steel enclosure with 38mm diameter tube rotor arms and push button access control, to suit opening size 2500 x 3000mm high, bolted to 20MPa 2400 x 1300 x 150mm thick concrete base with 12No. M12 x 75mm anchor bolts and connected to 220V AC single phase power supply, including side gate, or other approved see detail designs at the back of the bill of quantities	No	2
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STEEL SAFES AND LOCKERS

Galvanized steel pistol safe with power coated epoxy finish

16	Pistol safe size 330 x 305 x 300mm high (mass 16kg) including seven lever security un-pickable lock, fixing to wall with four 10mm diameter expansion bolts, etc.	No	1
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Galvanized steel lockers with power coated epoxy finish

17	Locker size 300 x 450 x 1800mm high consisting of 0,6mm thick bottom, sides, back, shelf, top and door, including shelf, hanging rail, two vent openings to door, fixing to wall with four 10mm diameter expansion bolts	No	6	
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SECURITY GATES & SCREENS

Security gates

18	Single gate 900 mm x 2 100 mm high of 32 mm x 32 mm x 2 mm hollow section mitred , frames and welded frame filled in with 10 mm x 10 mm solid square bars vertical at 100 mm centres maximum and 2 x 32 mm x 10 mm flat section cross braces drilled to receive square bars and fitted with one and a half pair of 100 mm x 125 mm steel projection hinges (hinges welded to frame and bolted to brickwall with 10 mm diameter expansion bolts - head of bolt to pass through hinge into frame when closed), oval cylinder upright lockset with "Gower" handles (lockset to be fully enclosed by mild steel housing) complete with escutcheons, striking plates and forends and top- and bottom bolts.	No	19	
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19	Double gate size 2 085 wide x 2 720 high, High security mesh panels as supplied by specialist, Gate complete with Ironmongery and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc. as specified by Architect See drawings at the back of the bill of quantities(Door SEC-CVD001)	No	1	
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Security screens

20	Security screen size 2 212 wide x 2 720 high, High security mesh panels as supplied by specialist, screen complete with Ironmongery, and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc. as specified by Architect See drawings at the back of the bill of quantities(Door SEC-CVP001)	No	6	
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CELL DOORS

21	Standard solid steel cell door, grill gate and frame combination size 1 018 mm wide x 2020 mm high complete with and including locks, handles, hinges, etc. as per attached drawings POL2012/D1 - POL2012/D5.	No	9
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CELL GATES

22	Standard grille Cell gate 894 x 1 966mm high formed of 50 x 50 x 4mm hollow section frame, mitred at corners filled in with four 50 x 50 x 4mm horizontal middle rails and 16mm diameter vertical rods at 88mm centres, lock box insert formed of two 40 x 10mm flat section bars 236mm long welded to two 240 x 230 x 5mm lock box plates for lock (elsewhere), gate hinged to steel door frame with two (Type A - Top & Bottom Hinge) and one (Type B - Middle Hinge) 40mm diameter hinges each 120mm formed of hinge pin 90mm (Type A), 100mm (Type B) long with 19,5mm diameter spindle 30mm (Type A), 40mm (Type B) long hollowed for 16mm carbon chromium steel roller ball (Type A) and spindle 60mm long with 20mm diameter hole 45mm long to house spindle (Type A & B) and roller ball and threaded for 12mm diameter x 30mm grade 8.8 bolt with locknut (Type A) and drilled for and including grease nipple (Type A & B) (POL2012/D1 to D5)	No	4
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CELL WINDOWS

23	Standard cell window size 850 mm wide x 950 mm high complete with window, 7.52 mm laminated glass glazing, internal- and external fixed screens complete, web width 10mm and openings of 10mm x 40mm, as per architect specification (W001)	No	4
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24	Standard cell window size 850 mm wide x 950 mm high complete with window, 7.52 mm laminated glass glazing, internal- and external fixed screens complete, web width 10mm and openings of 10mm x 40mm, as per architect specification (W002)	No	7
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STEEL ADJUSTABLE SHELVING

25	1.6mm Thick double slot wall band 2100mm long plugged and screwed to wall	No	65
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26	1.6mm Thick shelf support brackets 400mm wide	No	260
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ALUMINIUM WINDOWS, DOORS, ETC

Note: Tenderers are referred to architect's drawing attached to these bills of quantities for tender purposes

Windows and doors

Doors and windows to be of the types described, and manufactured by and in accordance with the standard specification of "Aluminium City", or other approved hereinafter referred to as the Manufacturer.

After manufacture, the Manufacturer shall be responsible for the delivery to site, unloading, placing in temporary storage, setting up and fixing in position, the supply of glass and glazing complete, sealant pointing, application and removal of protection tape and cleaning and servicing on completion of all aluminium doors and windows. Cleaning of glass before handing over shall be the responsibility of the Contractor as all glass is to be glazed clean by the manufacturer.

Glazing

Doors and windows are to be glazed with glass as described. Glazing may be either factory or site glazed and shall be executed by the Manufacturer who must ensure that glass is clean and free from any defects on completion of glazing

Fixing

All doors and windows are to be fixed in position by the Manufacturer. All must be perfectly plumb and shall be strutted and braced as necessary to prevent distortion

Pointing etc.

All doors and windows shall be waterproofed with "Sondor" or other approved wax impregnated sealing strip between the aluminium frame and the structure, and in addition shall be pointed all round on the external face with "Expandite Thioflex 600" or other approved twopart polysulphide liquid polymer sealing compound, applied at the junction of the frame with the structure. Pointing, etc. of doors and windows shall be executed by the manufacturer, or his approved specialist waterproofing sub-contractor

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Protection

The protection of aluminium doors and windows during and after fixing shall be the responsibility of the Contractor, they must be kept free from mortar droppings, etc. any units damaged are to be replaced. Aluminium doors and windows shall be protected with suitable adhesive protection tape applied to all exposed surfaces by the Manufacturer at the factory prior to delivery to site. Protection tape is to be of a different colour from the anodising

Servicing etc.

When necessary, all protection tape shall be removed by the Manufacturer, who shall the clean the doors and windows, but excluding the glass, which will have been glazed clean, test and service them, make all necessary adjustments and/or repairs and leave them in perfect order. Protection of the doors and windows after servicing by the Manufacturer and cleaning of glass after glazing shall be the responsibility of the Contractor

Prices

Prices for aluminium shall include the manufacture, delivery to site, unloading, setting up and fixing in position, supply of glass and glazing complete, "Sondor" sealing strips, wrought softwood infill linings to all hollow section aluminium frames according to details and sealant pointing, fixing lugs, brackets, screws, beads, timber grounds, cleaning and servicing of windows, all by the Manufacturer

References

The type numbers used in the following descriptions are those referred to the relevant type numbers on the drawings issued for tender and construction purposes. The sizes given in the following descriptions are nominal and prices are to take cognisance thereof

Ironmongery

Prices for windows, doors and frames should allow for all the ironmongery specified on the drawings referred to

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Purpose made Bronze powder coated aluminium windows, complete with and including ironmongery and 6mm glazing as per the specifications and window schedules at the back of the bill of quantities. All as per SABS regulations and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc.(see attached drawings)

27	Window 1888 x 1530mm high (AW002 Part A)	No	1
28	Window 2220 x 1530mm high (AW002 Part B)	No	1
29	Window 1160 x 1530mm high (AW001)	No	2
30	Window 1430 x 1530mm high (AW003 Part A)	No	1
31	Window 731 x 1530mm high (AW003 Part B)	No	1
32	Window 600 x 935mm high (AW004)	No	5
33	Window 2000 x 1530mm high (AW005)	No	2
34	Window 533 x 935mm high (AW006)	No	2
35	Window 1022 x 935mm high (AW007)	No	2

Purpose made Bronze powder coated aluminium windows, complete with and including ironmongery and 22mm bullet proof glazing as per the specifications and window schedules at the back of the bill of quantities. All as per SABS regulations and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc.(see attached drawings)

36	Window 3000 x 1500mm high (Cash hall counter)	No	1
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Purpose made Bronze powder coated aluminium doors, complete with and including ironmongery and glazed as per the specifications and door schedules at the back of the bill of quantities. All as per SABS regulations and fixed into openings between suspended ceilings, concrete beams, steel beams, brick walls, etc.(see attached drawings)

37	Door size 1248 x 1530mm high (ALHS002 part B)	No	1
38	Door size 1020 x 2635mm high with and including side hung window size 1395 x 1530 (ALHS002 Part A)	No	1
39	Door size 900 x 2635mm high (ALHS001)	No	3
40	Door size 1575 x 2635mm high (ALHD002)	No	1
41	Door size 1575 x 2635mm high with and including side hung window size 625 x 1530 (ALHD001)	No	1
42	Door size 650 x 2040mm high Louvre panel (ALLP001)	No	1
43	Door size 2115 x 2380mm high Louvre Door (ALLD001)	No	1

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Item No		Quantity	Rate	Amount
	<p><u>SECTION NUMBER 2</u></p> <p><u>BILL NUMBER 12</u></p> <p><u>STRUCTURAL STEELWORK (PROVISIONAL)</u></p> <p>SUPPLEMENTARY PREAMBLES</p> <p>Items, materials or methods to be used specified by trade names or catalogue numbers are only an indication of the quality required. Items, materials or other approved may be used with prior approval from the architect.</p> <p>Where there is a reference to SABS code, it means the new SANS code definition.</p> <p><u>NOTES</u></p> <p>1. All steel must be grade 300 W to SABS 1431. Commercial Grade cold rolled sections to have a minimum yield stress of 225 MPa (Contractor to get confirmation from supplier in this regard).</p> <p>2. All bolts and nuts to be grade 8.8 unless otherwise specified. Bolts shall be hot dip galvanised to BS763 and it must be possible to screw mate parts together by hand.</p> <p>3. All fasteners must be supplied by the Contractor.</p> <p>4. All welds shall be full penetration 6mm welds to SABS 044 and SABS 455, all round where possible, unless otherwise stated.</p> <p>5. All construction and workshop details must be approved by the Engineer before fabrication is started.</p> <p style="text-align: right;">Carried to Collection</p> <p>Section No. 2 Bill No. 12 Structural Steelwork RUBIQUANT QUANTITY SURVEYORS</p>			R

- 6. Structural steelwork must be carried out according to SABS 1200H.
- 7. All bolts and nuts must have washers.
- 8. The contractor must ensure adequate structural stability of the structure for the full duration of erection. The contractor shall supply all temporary bracing and fixing mechanisms to achieve the above.
- 9. No holes to be formed or widened with the use of a cutting torch. The contractor must confirm all dimensions on site. Discrepancies to be reported to the engineer.
- 10. Prices for all structural steelwork are to include for the following:
 - (a) preparation and submission of two complete sets of shop drawings to the Structural Engineers for approval,
 - (b) fabrication,
 - (c) cleaning down and sandblasting to SA 2,5 (SIS 05 5900 - 1967) with profile of between 40 and 70 micron,
 - (d) prime (within 3 hours of sandblasting) with "Plascon zinc phosphate primer (UC. 170) to dry film thickness of between 50 and 100 micron,
 - (e) delivery to site,
 - (f) storage, if necessary,
 - (g) hoisting and erection complete, including all holing, galvanised mild steel bolts, washers, packing pieces, bolting, welding, etc

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11. Painting of structural steelwork after erection is
elsewhere
measured

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Section No. 2
Bill No. 12
Structural Steelwork
**RUBIQUANT
QUANTITY SURVEYORS**

SUNDRY GALVANISED STEELWORK

Galvanised steel posts as per Engineer's specification

1	305 x 165 x 40mm Thick cold-formed I-Beam	kg	230
2	100 x 50 x 20 x 3mm Thick cold-formed lipped channel	kg	1 401
3	100 x 100 x 5mm Thick cold-formed square hollow section	kg	1 252
4	120 x 120 x 5mm Thick cold-formed square hollow section	kg	1 963
5	150 x 100 x 4.5mm Thick cold-formed rectangular hollow section	kg	310
6	76.2 x 3.5mm Thick cold-formed circular hollow section	kg	585
7	127 x 4mm Thick cold-formed circular hollow section	kg	439
8	5mm Mild steel connection plate at roof truss welded	No	60
9	10mm Mild steel connection plate at base plate welded	No	64
10	12mm Mild steel connection plate 5470mm x 170mm at base plate	No	5
11	M12 Bolt and nut	No	240
12	M16 Holding down bolt, 250mm long	No	240
13	M20 Holding down bolt, 350mm long	No	16

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Section No. 2
 Bill No. 12
 Structural Steelwork
**RUBIQUANT
 QUANTITY SURVEYORS**

HIGH SECURITY MESH SCREEN CEILINGS

Security mesh ceiling to be manufactured according recommended specifications. All steelwork to be hot dipped galvanised. Verify dimensions of areas mesh panel sizes before manufacturing as per Five star specifications 2012 POL2012/G1

14	Screenex or Beahaert Bastion Hi Security 358 Singleskin Galfan Class A coated (SANS Spec. 10244-2:2003) or other approved, mesh panels fitted into framework with secure fixing	m2	76
15	IPE 180 x 91 x 19mm I-section beams	kg	1 395
16	Extra over IPE 180 I-section beam for T-intersection	No	24
17	40 x 40 x 3mm Angle section framing	kg	443
18	50 x 50 x 5mm Angle section framing bolted to wall of welded to I-beam (bolts elsewhere)	kg	907
19	90 x 90 x 6mm Angle section framing bolted to wall of welded to I-beam (bolts elsewhere)	kg	233
20	100 x 75 x 6mm Angle section bracket bolted to wall	kg	226
21	150 x 90 x 10mm Angle section support bolted to wall (bolts measured elsewhere)	kg	136
22	250 x 50 x 10mm Lugs built into brickwork	No	186
23	3mm Solid steel plate size 1 250mm x 1 250mm welded to the mesh (elsewhere measured)	No	548
24	Extra over 50 x 50 x 5mm angle section framing for mitred corner intersection	No	42
25	Hole through 5mm steel for bolt	No	618
26	Hole through 6mm steel for bolt	No	730
27	Hole through 10mm steel for bolt	No	346
28	16mm Diameter chemical anchor bolt	No	1 238
29	20mm Diameter chemical anchor bolt	No	440

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	<u>BILL NUMBER 13</u>			
	<u>PLASTERING</u>			
	JBCC Work Group No. 142			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>SCREEDS</u>			
	<u>Sponge finished wood floated on concrete</u>			
1	50mm Thick on floors and landings	m2	565	
2	50mm thick on roofs to falls and currents	m2	93	
	<u>Brushed finished floated on concrete</u>			
3	50mm Thick on floors and landings	m2	384	
	<u>Self levelling screed</u>			
4	Self levelling screed 4-8mm thick on floors	m2	10	
	<u>POLYURETANE</u>			
	<u>Polyuretane area cement Self levelling floor covering</u>			
5	Stonecor africa or other approved Self levelling Polyuretane screed 4-8mm thick on floors	m2	125	
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GRANOLITHIC

Granolithic floor covering

6	32mm thick untinted granolithic finished cement on floors	m2	177
7	75mm high Granolithic skirting	m	146

INTERNAL PLASTER

Cement plaster on brickwork

8	On walls	m2	1 231
9	On narrow widths	m2	83

Cement plaster on concrete finished with a steel trowel

10	On ceilings	m2	93
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Bill No. 13
Plastering
**RUBIQUANT
QUANTITY SURVEYORS**

EXTERNAL PLASTER

Cement plaster on brickwork

11	On walls	m2	655
12	On narrow widths	m2	33

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	<u>BILL NUMBER 14</u>			
	<u>TILING</u>			
	JBCC Work Group No. 144			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>WALL TILING</u>			
	<u>200 x 200 x 6mm Thick "SAMCA" matt white ceramic wall tiles (Code OMA1000) fixed with approved adhesive to plaster (plaster elsewhere measured) and flush pointed with waterproof jointing compound or other approved</u>			
1	On walls	m2	34	
2	On narrow widths	m2	3	
	<u>200mm High Mosaic boarder of full bodied porcelain "mesh black" mosaic tiles (Code 792) fixed with approved adhesive to plaster (plaster elsewhere measured) and flush pointed with waterproof jointing compound</u>			
3	Dado band 200 mm high formed of 23 x 23mm mosaic tiles	m	25	
	Carried to Collection			R
	Section No. 2 Bill No. 14 Tiling RUBIQUANT QUANTITY SURVEYORS			

FLOOR TILING

Double charge Vitrified full body porcelain tiles with a water absorption (EN ISO 10545-3) of less than 0,1% and a scratch resistance (EN ISO 10545-7) of <150mm3. Slip classification (DIN 51130 (R) to be R9 – all according to detail tile layout. All strictly to manufacturer’s specifications. Colour and type to Architect’s approval.

4	On floors	m2	555
5	Skirting 100mm high	m	593

SUNDRIES

Strips between tiles and on top of tile skirtings

6	8mm Aluminium Formable Straight Edge Trim (AFE080)	m	50
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Internal or external corner strips

7	8mm Aluminium Round Edge Trim (ARE080)	m	593
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Bill No. 14

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	<u>BILL NUMBER 15</u>			
	<u>PLUMBING AND DRAINAGE (Provisional)</u>			
	JBCC Work Group No. 146 & 148			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>RAINWATER DISPOSAL</u>			
	<u>0,8mm Baked enamel on aluminium gutter system in continuous lengths:</u>			
1	150 x 100mm Ogee eaves gutters.	m	393	
2	Extra over eaves gutter for stopped end.	No	26	
3	Extra over eaves gutter for angle.	No	17	
4	Extra over eaves gutter for outlet for 100 x 75mm down pipe.	No	53	
5	100 x 75mm Downpipe.	m	223	
6	100 x 75mm Spreader pipe 800mm long.	No	53	
7	Extra over rainwater pipe for offset bend.	No	106	
8	Ditto for shoe.	No	53	
9	380 X 900mm Concrete water channel	No	53	
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	Section No. 2 Bill No. 15 Plumbing and Drainage RUBIQUANT QUANTITY SURVEYORS			

SANITARY FITTINGS

The following in WASH HAND BASINS fixed complete in position and connected to services

10	Vaal Hibiscus vitreous china code 702303WH wash hand basin or similar approved, wall hung with two tap holes including integrated overflow and chainstay hole, bolted to wall with 2No. 10mm bolts (Code: 8448Z000) and sealed with silicon sealant against wall	No	5
11	Vaal Bantam vitreous china cloakroom basin (code: 7030), size 455 x 290mm with two tapholes, including integrated overflow and chainstay hole bolted to wall with two 10mm bolts (code: 8448Z0) and sealed with silicone sealant where basin meets wall.	No	2
12	COBRA 345/50 bottle trap, 50mm pvc outlet. Includes: 75mm deep re-seal, adjustable telescopic pipe, and 1 1/4" female inlet x Ø 50mm outlet for PVC tube.	No	7
13	COBRA angle regulating valves - COBRA 832/350F. Including 350mm braided flexi hose.	No	28
14	Cobra Watertech Stella 15mm chrome plated basin pillar tap, with tapered flow-straightened (3314ST- 15). Includes: hot and cold indices, 1/2" BSP male inlet, flanged backnut, and streamline outlet for flow aesthetics.	No	8
15	Cobra Watertech 32mm Machine chrome plated slotted basin waste union (Product Code: 303). Includes: 62mm diameter flange, 77mm long shank, and 1 1/4" BSP male outlet connection. COBRA angle regulating valves - COBRA 832/350F. Including 350mm braided flexi hose.	No	7
16	COBRA 309-32 "anti-theft" chrome-plate plug Includes: 72mm spindle and spindle-locking tab, and 39mm diameter plug.	No	14
17	Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21B/p-WS/6-nolime) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	3

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QUANTITY SURVEYORS**

18	Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21R/p-WS/6-nolime) with red indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	3
19	15 mm Castle -or other approved- ballstop	No	14
<u>The following in WC suite complete</u>			
20	Daisy vitreous china semi close coupled washdown pan comprising 90° outlet open rim pan (product code 751400) flushing valve (elsewhere) including lid and fitments with heavy duty seat.	No	10
21	Cobra Watertech exposed WC chrome plated Junior Flushmaster flushvalve (code: KF4.213) with nonhold open feature, vacuum breaker, back entry flushpipe, galvanised steel undertile box with stainless steel faceplate, palm press button, rubber pan connector and 32mm "Ball-o-Stop" control inlet.	No	14
<u>The following in PARAPLEGIC WC suite complete</u>			
22	Vaal Protea Paraplegic vitreous china floor mounted paraplegic washdown suite colour White (Code: 750246WH), comprising 90° outlet pan, flushing valve (elsewhere) including lid and fitments with heavy duty seat.	No	4
23	Cobra Watertech exposed WC chrome plated Junior Flushmaster flushvalve (code: KF4.213) with nonhold open feature, vacuum breaker, back entry flushpipe, galvanised steel undertile box with stainless steel faceplate, palm press button, rubber pan connector and 32mm "Ball-o-Stop" control inlet.	No	4

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 Plumbing and Drainage
**RUBIQUANT
 QUANTITY SURVEYORS**

The following in URINAL complete

24 Vaal 600 x 385 x 380mm Lavatera back inlet white vitreous china wall mounted urinal (Code: 705427) including 38mm chromium plated domical grating (Code:8787Z0) and chromium plated back inlet spreader (Code: 7054Z2), flush valve, flush pipe and fittings (by others), fixed on and including two hanger brackets (Code: 8127Z0).

No 2

25 Cobra Watertech exposed urinal chrome plated Junior Econo Flushmaster flushvalve (code: KF8.112) with non-hold open feature, galvanised steel undertile box with stainless steel faceplate and chasis, palm press button, 22mm diameter copper urinal tailpipe and 20mm "Ball-o-Stop" control inlet. Cobra Watertech 40mm Chrome plated deep seal bottle trap with outlet for 50mm PVC (365/50).

No 2

STAINLESS STEEL (340 (18/10)) WASH HAND BASINS, WC SUITES, ETC

The following in wash hand basins fixed complete in position and connected to services (refer to 5 Star Specification : 2012)

26 Franke Grade 304 (18/10) 1,2mm thick stainless steel model Oval A wash hand basin size 420 x 340mm with pressed bowl, with two tapholes, with 100mm radius apron and 50mm high splashback, (Code 357456) excluding waste four times bolted to wall with M6 expansion bolts.

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27	<p>Franke 1,2mm Grade 304 18/10 stainless steel HDTX850 heavy duty combi unit (code: 356151/2 or 3), size 390 x 799 x 955mm high with integrated wash basin with 40mm waste outlet and 150mm high splashback, plumbing fittings (code: 825010) including Cobra basin valve (code: KM1-00F), Cobra wc valve (code: FJ 4-203F), Walcro flexible hose and Walcro 15mm spout, pan positioned (as shown on drawing), toilet roll holder, 40mm waste outlet and stainless steel "P" trap to WC pan, connected to cold water supply, galvanised mild steel security frame size 525 x 950mm high (code: 356017) with 6No.13mm diameter anti-escape bars built into wall, pedestal fixed to wall with 8mm threaded rods, compliant with SABS 1733:2002.</p>	No	4
28	<p>Cobra Watertech Carina 15mm chrome pillar tap (Code: 114CA-15) with aerator outlet and flanged backnut, manufactured in accordance with SANS 226:2004 Type 1 (BS 5412). Includes: hot and cold indice, 1/2" BSP male inlet, flanged backnut, streamline outlet for flow aesthetics, and 1/2" heavy pattern/low resistance for low pressure or high water demand installations.</p>	No	14
29	<p>Cobra Watertech 40mm Chrome plated unslo ed basin waste union (no chain or stay) (317-40). Includes: 70mm diameter flange, 45mm long shank, and 1 1/2" BSP male outlet connection.</p>	No	8
30	<p>COBRA 365/50 bottle trap, 50mm, pvc outlet Includes: a high specification polymer-blend body component, 75mm deep re-seal and adjustable telescopic pipe, and 1 1/2" female inlet x Ø 50mm outlet for PVC tube.</p>	No	8
31	<p>COBRA angle regulating valves – COBRA 232/350. Includes: sliding wall flange, and 1/2" BSP male inlet x 1/2" BSP male outlet.</p>	No	2
32	<p>Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21B/p-WS/6-nolime) with blue indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).</p>	No	1

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33	Cobra Watertech 15mm chrome plated pillar tap (Code: 505-21R/p-WS/6-nolime) with red indice and elbow action lever, manufactured in accordance with SANS 226:2009 Type 2 (BS 5412).	No	1
<u>The following in WC suites fixed complete in position and connected to services (refer to 5 Star Specification : 2012)</u>			
34	"OVE Model OSPA1" or other approved vandal proof wc pan (concrete filled) manufactured from 1,2mm grade 304 AISI (18/10) stainless steel; fully welded and polished to a no. 4 satin finish; 485 x 390 x 435mm high with circular flushing rim and bowl, full flow "P" trap, 38mm diameter supply flush pipe; both sufficient length to protrude the wall. (All connections to be outside). Integral 35mm wide fixing flange to bottom sides and top 7 times bolted to wall and floor complete with expanded metal mesh for mechanical bond for plaster/screed to the pan flange (POL2012/S1)	No	4
35	"WALCRO No 104" or other approved brass back entry non hold open toilet flush valve with integral vacuum breaker and modified push-rod connector, complete with 38mm diameter flushpipe, bend and pan connector (POL2012/S1)	No	4
36	Prison type "ECONOFLUSH" as type KF3.404 including elbow, straight pipe and pan connector (POL2012/S1)	No	4
<u>Sinks, washtroughs, etc.</u>			
37	Kwikot model BHA900X Single centre bowl special Post Formed sink size 900x595mm manufactured in 1,2mm grade 304 Stainless steel, bowl size 410x350x150mm deep with a 12mm splashback at rear complete with 1 no:- PVC combination overflow fitting with anti theft plug and Laveteria back entry spreader to fitted to bowl on right hand side.	No	2

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38	Cobra Watertech 15mm Chrome plated one Hole sink mixer with overarm swivel spout, Mounting kit and Flexible Connec on Tubes (3396/ST). Includes: aerated swivel outlet, 1/2" BSP female inlets, mounting kit, and 2 x 1/2" female iron 400mm long flexible inlets. SANS 226 Type 2, DZR brass.	No	2
39	Cobra Watertech 40mm Chrome plated unslotted basin waste union (no chain or stay) (317-40). Includes: 70mm diameter flange, 45mm long shank, and 1 1/2" BSP male outlet connection.	No	2
40	COBRA 309-32 "anti-theft" chrome-plate plug Includes: 72mm spindle and spindle-locking tab, and 39mm diameter plug.	No	2
41	COBRA 365/50 bottle trap, 50mm, pvc outlet Includes: a high specification polymer-blend body component, 75mm deep re-seal and adjustable telescopic pipe, and 1 1/2" female inlet x Ø 50mm outlet for PVC tube.	No	2
42	COBRA angle regulating valves - COBRA 832/350F. Including 350mm braided flexi hose.	No	4
43	50 mm Deep seal "P" or "S" trap	No	2
<u>Slop Hopper, etc.</u>			
44	"Kwikot" Slop Hopper with cowling size 535x685x510mm high manufactured from 304(18/10) stainless steel 1,2mm thick with a 100mm high integral splash back to rear and both sides, Model (HDGX -SLOP 1 for floor and HDGX -SLOP 2) for wall connection. The cone has a integral flushing rim and 100mm Ø stainless steel "S" or "P" trap .Unit fitted with a back entry flush pipe for a standard flush valve. Unit fitted with a hinged bucket grid manufactured from 10mm diameter 304 (18/10) complete with two 40x40mm square stainless steel wall mounting gallows brackets fixed to wall with 4 of anchor bolts. Slop hopper supplied complete with floor mounting bracket as per manufacturers specifica on	No	1
45	Cobra FJ2.210 Flushmaster Junior flushvalve set	No	1

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46	Cobra Watertech Stella 15mm chrome Chrome plated extended bibtap (3306ST/EXT-15). Includes: hot and cold indices, 1/2" BSP male inlet, sliding wall flange, and flow straightener for flow aesthetics.	No	2		
	<u>TAPS, VALVES, ETC.</u>				
	<u>Brass</u>				
47	15mm Stopcock	No	4		
48	22mm Stopcock	No	4		
	<u>ELECTIC WATER HEATERS</u>				
49	150 Litre horizontal high pressure electric water heater	No	3		
50	Drip tray to suit 150 litre horizontal geyser with 100mm high upstand with top edge bent over all round including 50mm diameter overflow pipe 3000mm long approximately 3m above ground level	No	3		
51	"FRANKE" or other approved stainless steel 7.5 litre Hydro boil complete	No	3		
	<u>SCRUBBING/POLISHING MACHINE</u>				
52	Provide a budgetary allowance of Thirty Two Thousand Rand (R32'000.00) for Scrubbing and Polishing Machine for Cleaner complete			Item	32 000.00
53	Allow for profit and attendance			Item	
	<u>SANITARY PLUMBING</u>				
	<u>PIPES, ETC.</u>				
	<u>uPVC pipes</u>				
54	50mm Pipes	m	69		
55	110mm Pipes	m	14		
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<u>Extra over uPVC pipes for fittings</u>			
56	50mm Bend	No	46
57	110mm Bend	No	14
58	50mm Junction	No	19
59	110mm Pan connector	No	14
60	50mm Access bend	No	23
61	50mm Access junction	No	19
62	110mm "GI Two-way" vent valve	No	14
<u>WATER SUPPLIES</u>			
<u>Copper pipes (class 460/2) with soldered joints</u>			
63	15mm Pipes	m	210
64	22mm Pipes	m	181
<u>Extra over copper pipes (class 460/2) for capillary fittings</u>			
65	15mm Fittings	No	195
66	22mm Fittings	No	94
<u>Extra over copper pipes for capillary soldered fittings</u>			
67	15 mm Fittings	No	195
68	22 mm Fittings	No	94

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LAGGING

25mm Thick fibre glass insulation wrapped around pipes and fittings including straps, etc.

69	15mm Pipes	m	109	
70	22mm Pipes	m	124	
<u>Taps, valves, etc.</u>				
71	15 mm Brass bibcock with hose connection and 1/2" threaded outlet	No	2	
72	25mm Brass stop valve	No	3	

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FIRE APPLIANCES, ETC.

The following in fire hose reel, etc

73	25mm Galvanised steel pipe fixed to wall with U-bolt brackets	m	100
74	Female adaptor - 7030 32 x 1	No	4
75	25mm Brass quick-coupling valve as model 44RC	No	4
76	SH-2 Hose swivel	No	4
77	100mm Diameter uPVC sleeve not exceeding 250mm long	No	4
78	Hose reel complete with 30m plastic hose, chromium plated stopcock, shutt-off nozzle and wall bracket	No	4

TESTING, ETC.

79	Provide all necessary apparatus, water, etc. for and test the internal drainage system to the satisfaction of the Representative/Agent		Item
80	Provide all necessary apparatus, water, etc. for and test the internal hot and cold water and fire reticulation to the satisfaction of the Representative/Agent		Item

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	<u>SECTION NUMBER 2</u>			
	<u>BILL NUMBER 17</u>			
	<u>PAINTWORK</u>			
	JBCC Work Group No. 152			
	<u>SUPPLEMENTARY PREAMBLES</u>			
	For Preambles see "PW371 - Specification of Materials and Methods to be used"			

	<u>PAINTWORK, ETC TO NEW WORK</u>			
	<u>ON FLOATED PLASTER</u>			
	<u>Prepare and apply one undercoat (UC1) of Plascon plaster primer and two coats Plascon Velvagio "Brocken White" (VLO 26) wall paint or other approved</u>			
1	On internal walls	m2	1 182	
	<u>Prepare and apply one undercoat and two coats Wall and All paint, applied strictly according to manufacturer's specifications or other approved</u>			
2	On external walls	m2	681	
	<u>Prepare for and apply one acrylic fillercoat and two coats teflon based durable low sheen pure acrylic paint with good scrub resistance</u>			
3	On concrete ceilings	m2	93	
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ON FIBRE CEMENT

One coat universal plaster primer and two coats PVA acrylic paint

4	On ceilings	m2	553	
5	On fascias and barge boards	m2	485	
6	Accoustic pannels	m2	79	

One undercoat detergent and paint one coat "Eggshell" paint or other approved

7	On window cills not exceeding 300mm wide	m	37	
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PAINT ON METAL

One coat Glatex 8 metal primer (PL3) and apply two coats Glatex 8 finishing coats or other approved, on:

8	Doors	m2	8	
9	Door frames	m2	48	
10	On cell and safe door and frames	m2	32	
11	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	121	
12	On steel columns, beams, base plates, etc	m2	580	

ON WOOD

One coat "Spick & Span Oil Based Wood Primer (UC2)" under coat and two coats "Plascon Velvaglo Polyurethane Velvet Enamel (VLO)" paint or other approved

13	On doors	m2	39	
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Three coats polyurethane clear varnish

14	On doors	m2	39	
15	Skirtings and mouldings not exceeding 300mm girth	m	62	

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PREVIOUSLY PAINTED SURFACES

General Notes:

All surfaces to be perfectly dry & in a fit state to receive paint before any application commences

PAINTWORK, ETC TO EXISTING WORK

ON PLASTER, FIBRE CEMENT, ETC.

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

Prepare and apply one undercoat (UC1) of Plascon plaster primer and two coats Plascon Velvagio "Brocken White" (VLO 26) wall paint or other approved

16	On internal walls	m2	1 134	
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Prepare and apply one undercoat of Plascon plaster primer and two coats Plascon Wall and all, wall paint or other approved

17	On external walls	m2	625	
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Clean down and apply one undercoat detergent and paint one coat "Eggshell" paint or other approved

18	Window cills	m	45	
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Prepare and apply one coat universal plaster primer and two coats PVA acrylic paint

19	Accoustic pannels	m2	59	
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ON CONCRETE

Prepare for and apply one acrylic fillercoat and two coats teflon based durable low sheen pure acrylic paint with good scrub resistance

20	On concrete ceilings	m2	71	
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ON METAL

Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal. Care is to be taken when rubbing down previously finished galvanised steelwork, not to damage or remove the galvanising.

Prepare, removing all rust to bright metal, spot priming bare metal surfaces with one coat Glatex 8 metal primer (PL3) and apply two coats Glatex 8 finishing coats or other approved

21	Door frames	m2	33	
22	On windows with burglar proofing (both sides measured)	m2	69	
23	On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)	m2	15	

ON WOOD

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

Prepare and apply one coat wood primer, one coat universal undercoat and two coats 100% silthane silk paint

24	450mm Wide wooden bench with steel angle support	m	18	
25	Doors	m2	83	

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