



# public works & infrastructure

Department:  
Public Works and Infrastructure  
REPUBLIC OF SOUTH AFRICA

**TENDER No: KIM03/2023**

**CLOSING DATE: 3 November 2023**

## **PROCUREMENT DOCUMENTS VOLUME 2: RETURNABLE DOCUMENTS**

### **KEIMOES MAGISTRATE OFFICE CONSTRUCTION OF NEW BUILDING INCLUDING PARKING BAYS IN NORTHERN CAPE PROVINCE**

DEPARTMENT OF PUBLIC WORKS  
KIMBERLEY REGIONAL OFFICES  
PRIVATE BAG X5002  
KIMBERLEY, 8300

PROJECT MANAGER:  
SANDISO COSA

**OCTOBER 2023**

**NAME OF BIDDER: .....**

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# **VOLUME 2 : RETURNABLE DOCUMENTS**

## **List of Returnable Documents**

### **RETURNABLE DOCUMENTS REQUIRED FOR TENDER EVALUATION**

#### **SUBSTANTIVE RESPONSIVENESS CRITERIA:**

**Form of Offer and Acceptance (DPW-07EC)**

**Particulars of Tenderer's Projects (DPW-09 EC)**

**Tender clarification meeting Certificate (DPW-16.1 EC)**

**Record of Addenda to tender documents (DPW-21EC)**

#### **ADMINISTRATIVE REQUIREMENTS:**

**Resolution of Board of Directors (PA-15.1)**

**Resolution of Board of Directors to enter into Consortia or Joint Venture (PA-15.2)**

**Special Resolution of Consortia or Joint Ventures (PA-15.3)**

**Bidder's disclosure (PA-11 EC)**

**Ownership particulars (PA-16.1 EC)**

**Declaration of Designated Groups for Preferential Procurement (PA-40)**

**Registration on National Treasury's Central Supplier Database (CSD)**

**B-BBEE Exempted Micro Enterprises (issued in terms of Amended Construction Sector Code)**

#### **ADMINISTRATIVE REQUIREMENTS FOR SPECIFIC GOALS**

**Preference points claim form in terms of the Preferential Procurement Regulations 2017 (PA-16)**

**Consolidated B-BBEE Certificate for trust, consortium or joint venture**

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

|                               |  |                      |                   |
|-------------------------------|--|----------------------|-------------------|
| <b>Project title:</b>         | KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS |                      |                   |
| <b>Tender / Quotation no:</b> | KIM03/2023   | <b>Reference no:</b> | 19/2/4/2/2/2324/7 |

### OFFER

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

**KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS**

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 figures) R** .....

**Rand (in words)**.....

.....

.....

The amount in words takes precedence over the amount in figures. 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:.....

\*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”

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**Tender / Quotation no: KIM03/2023**

|  |   |
|--|---|
| <b>AND WHO IS (if applicable):</b>   |   |
| Trading under the name and style of: .....   |   |
| <b>AND WHO IS:</b>   |   |
| Represented herein, and who is duly authorised to do so, by:<br><br>Mr/Mrs/Ms: ..... | <b>Note:</b><br><br><b>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.</b> |
| In his/her capacity as: .....  |   |

**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**  **No**
  - (2) variable construction guarantee of 10 % of the Contract Sum (excluding VAT) **Yes**  **No**
  - (3) payment reduction of 10% of the value certified in the payment certificate (excluding VAT) **Yes**  **No**
  - (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**  **No**
  - (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) **Yes**  **No**

NB. Guarantees submitted must be issued by either an insurance company duly registered in terms of the Insurance Act [Long-Term Insurance Act, 1998 (Act 52 of 1998) or 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.

\*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"

**Tender / Quotation no: KIM03/2023**

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. ....

Fax No .....

Postal address .....

Banker ..... Branch.....

Registration No of Tenderer at Department of Labour .....

CIDB Registration Number: .....

**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 C1 Agreement and contract data, (which includes this agreement)

Part C2 Pricing data

Part C3 Scope of work

Part C4 Site information and drawings and documents or parts thereof, which may be incorporated by reference into the above listed Parts.

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 |

\*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"

Tender / Quotation no: **KIM03/2023**

|                                 |   |
|---------------------------------|---|
| <b>Name of Organisation:</b>    | Department of Public Works and Infrastructure                       |
| <b>Address of Organisation:</b> | Old Magistrate's Office<br>21-23 Market Street<br>KIMBERLEY<br>8301 |

**WITNESSED BY:**

|                 |           |      |
|-----------------|-----------|------|
|                 |           |      |
| Name of witness | Signature | Date |

**Schedule of Deviations**

|  |
|--|
| <b>1.1.1. Subject:</b>   |
| <b>Detail:</b> <i>The installation comprising of the Court Recording Technologies and the Telephone, Data &amp; VOIP Systems will be procured and appointed directly by Department of Justice during the construction process to comply with their cyber security requirements. Provisional Sums were allowed for these items in Section 6</i> |
| <b>1.1.2. Subject:</b>   |
| <b>Detail:</b>   |
| <b>1.1.3. Subject:</b>   |
| <b>Detail:</b>   |
| <b>1.1.4. Subject:</b>   |
| <b>Detail:</b>   |
| <b>1.1.5. Subject:</b>   |
| <b>Detail:</b>   |
| <b>1.1.6. Subject:</b>   |
| <b>Detail:</b>   |

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



## DPW-09 (EC): PARTICULARS OF TENDERER'S PROJECTS

|                               |   |                         |            |
|-------------------------------|---|-------------------------|------------|
| <b>Project title:</b>         | <b>KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS</b> |                         |            |
| <b>Tender / quotation no:</b> | KIM03/2023  | <b>Closing date:</b>    | 03/11/2023 |
| <b>Advertising date:</b>      | 13/10/2023  | <b>Validity period:</b> | 84 days    |

### 1. PARTICULARS OF THE TENDERER'S CURRENT AND PREVIOUS COMMITMENTS

#### 1.1. Current projects

| Projects currently engaged in | Name of Employer or Representative of Employer | Contact tel. no. | Contract sum | Contractual commencement date | Contractual completion date | Current percentage progress |
|-------------------------------|--|------------------|--------------|-------------------------------|-----------------------------|-----------------------------|
| 1                             |  |                  |              |                               |                             |                             |
| 2                             |  |                  |              |                               |                             |                             |
| 3                             |  |                  |              |                               |                             |                             |
| 4                             |  |                  |              |                               |                             |                             |
| 5                             |  |                  |              |                               |                             |                             |
| 6                             |  |                  |              |                               |                             |                             |
| 7                             |  |                  |              |                               |                             |                             |
| 8                             |  |                  |              |                               |                             |                             |

**Tender no: KIM03/2023**

**1.2. Completed projects**

| Projects completed in the previous 5 (five) years | Name of Employer or Representative of Employer | Contact tel. no. | Contract sum | Contractual commencement date | Contractual completion date | Date of Certificate of Practical Completion |
|---|--|------------------|--------------|-------------------------------|-----------------------------|---|
| 1   |  |                  |              |                               |                             |   |
| 2   |  |                  |              |                               |                             |   |
| 3   |  |                  |              |                               |                             |   |
| 4   |  |                  |              |                               |                             |   |
| 5   |  |                  |              |                               |                             |   |
| 6   |  |                  |              |                               |                             |   |
| 7   |  |                  |              |                               |                             |   |
| 8   |  |                  |              |                               |                             |   |
| 9   |  |                  |              |                               |                             |   |

|                  |           |      |
|------------------|-----------|------|
| Name of Tenderer | Signature | Date |
|                  |           |      |

## DPW-16.1(PSB): TENDER CLARIFICATION MEETING CERTIFICATE

|                       |  |                      |                   |
|-----------------------|--|----------------------|-------------------|
| <b>Project title:</b> | KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS |                      |                   |
| <b>Tender no:</b>     | KIM03/2023   | <b>Reference no:</b> | 19/2/4/2/2/2324/7 |

This is to certify that I, \_\_\_\_\_

representing \_\_\_\_\_

in the capacity of \_\_\_\_\_

attended the tender clarification meeting on: \_\_\_\_\_

I further certify that I am satisfied with the description of the work and explanations given at the tender clarification meeting and that I understand the work to be done, as specified and implied, in the execution of this contract.

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

|                            |           |      |
|----------------------------|-----------|------|
|                            |           |      |
| Name of DPW Representative | Signature | Date |

## DPW-21 (EC): RECORD OF ADDENDA TO TENDER DOCUMENTS

|                       |   |                      |                          |
|-----------------------|---|----------------------|--------------------------|
| <b>Project title:</b> | <b>KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS</b> |                      |                          |
| <b>Tender no:</b>     | <i>KIM03/2023</i>   | <b>Reference no:</b> | <i>19/2/4/2/2/2324/7</i> |

1. I / We confirm that the following communications received from the Department of Public Works and Infrastructure before the submission of this tender offer, amending the tender documents, have been taken into account in this tender offer: *(Attach additional pages if more space is required)*

|     | <b>Date</b> | <b>Title or Details</b> |
|-----|-------------|-------------------------|
| 1.  |             |                         |
| 2.  |             |                         |
| 3.  |             |                         |
| 4.  |             |                         |
| 5.  |             |                         |
| 6.  |             |                         |
| 7.  |             |                         |
| 8.  |             |                         |
| 9.  |             |                         |
| 10. |             |                         |
| 11. |             |                         |
| 12. |             |                         |
| 13. |             |                         |

|                         |                  |             |
|-------------------------|------------------|-------------|
|                         |                  |             |
| <b>Name of Tenderer</b> | <b>Signature</b> | <b>Date</b> |

2. I / We confirm that no communications were received from the Department of Public Works and Infrastructure before the submission of this tender offer, amending the tender documents.

|                         |                  |             |
|-------------------------|------------------|-------------|
|                         |                  |             |
| <b>Name of Tenderer</b> | <b>Signature</b> | <b>Date</b> |

## PA-15.1: RESOLUTION OF BOARD OF DIRECTORS

**RESOLUTION** of a meeting of the Board of \*Directors / Members / Partners of:

\_\_\_\_\_ (Legally correct full name and registration number, if applicable, of the Enterprise)

Held at \_\_\_\_\_ (place)

on \_\_\_\_\_ (date)

**RESOLVED that:**

1. The Enterprise submits a Bid / Tender to the Department of Public Works in respect of the following project:

\_\_\_\_\_ (Project description as per Bid / Tender Document)

Bid / Tender Number: \_\_\_\_\_ (Bid / Tender Number as per Bid / Tender Document)

2. \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign the Bid / Tender, and any and all other documents and/or correspondence in connection with and relating to the Bid / Tender, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid / Tender to the Enterprise mentioned above.

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
| 3  |      |          |           |
| 4  |      |          |           |
| 5  |      |          |           |
| 6  |      |          |           |
| 7  |      |          |           |
| 8  |      |          |           |
| 9  |      |          |           |
| 10 |      |          |           |
| 11 |      |          |           |
| 12 |      |          |           |
| 13 |      |          |           |
| 14 |      |          |           |
| 15 |      |          |           |
| 16 |      |          |           |

|    |  |  |  |
|----|--|--|--|
| 17 |  |  |  |
| 18 |  |  |  |
| 19 |  |  |  |
| 20 |  |  |  |

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed.

**Note:**

1. \* Delete which is not applicable.
2. **NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
3. In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
4. Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
5. Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

**ENTERPRISE STAMP**

## PA-15.2: RESOLUTION OF BOARD OF DIRECTORS TO ENTER INTO CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the Board of \*Directors / Members / Partners of:

\_\_\_\_\_

\_\_\_\_\_

*(Legally correct full name and registration number, if applicable, of the Enterprise)*

Held at \_\_\_\_\_ *(place)*

on \_\_\_\_\_ *(date)*

**RESOLVED that:**

- The Enterprise submits a Bid /Tender, in consortium/Joint Venture with the following Enterprises:

\_\_\_\_\_

\_\_\_\_\_

*(List all the legally correct full names and registration numbers, if applicable, of the Enterprises forming the Consortium/Joint Venture)*

to the Department of Public Works in respect of the following project:

\_\_\_\_\_

\_\_\_\_\_

*(Project description as per Bid /Tender Document)*

Bid / Tender Number: \_\_\_\_\_ *(Bid / Tender Number as per Bid / Tender Document)*

- \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ *(Position in the Enterprise)*

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign a consortium/joint venture agreement with the parties listed under item 1 above, and any and all other documents and/or correspondence in connection with and relating to the consortium/joint venture, in respect of the project described under item 1 above.

- The Enterprise accepts joint and several liability with the parties listed under item 1 above for the due fulfilment of the obligations of the joint venture deriving from, and in any way connected with, the Contract to be entered into with the Department in respect of the project described under item 1 above.
- The Enterprise chooses as its *domicilium citandi et executandi* for all purposes arising from this joint venture agreement and the Contract with the Department in respect of the project under item 1 above:

Physical address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (code)

Postal Address: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_ (code)

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
| 3  |      |          |           |
| 4  |      |          |           |
| 5  |      |          |           |
| 6  |      |          |           |
| 7  |      |          |           |
| 8  |      |          |           |
| 9  |      |          |           |
| 10 |      |          |           |
| 11 |      |          |           |
| 12 |      |          |           |
| 13 |      |          |           |
| 14 |      |          |           |
| 15 |      |          |           |

The bidding enterprise hereby absolves the Department of Public Works from any liability whatsoever that may arise as a result of this document being signed

**Note:**

- \* Delete which is not applicable.
- NB:** This resolution must, where possible, be signed by all the Directors / Members / Partners of the Bidding Enterprise.
- In the event that paragraph 2 cannot be complied with, the resolution must be signed by Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (attach proof of shareholding / ownership hereto).
- Directors / Members / Partners of the Bidding Enterprise may alternatively appoint a person to sign this document on behalf of the Bidding Enterprise, which person must be so authorized by way of a duly completed power of attorney, signed by the Directors / Members / Partners holding a majority of the shares / ownership of the Bidding Enterprise (proof of shareholding / ownership and power of attorney are to be attached hereto).
- Should the number of Directors / Members / Partners exceed the space available above, additional names and signatures must be supplied on a separate page.

**ENTERPRISE STAMP**



## PA-15.3: SPECIAL RESOLUTION OF CONSORTIA OR JOINT VENTURES

**RESOLUTION** of a meeting of the duly authorised representatives of the following legal entities who have entered into a consortium/joint venture to jointly bid for the project mentioned below: *(legally correct full names and registration numbers, if applicable, of the Enterprises forming a Consortium/Joint Venture)*

1. \_\_\_\_\_  
\_\_\_\_\_
2. \_\_\_\_\_  
\_\_\_\_\_
3. \_\_\_\_\_  
\_\_\_\_\_
4. \_\_\_\_\_  
\_\_\_\_\_
5. \_\_\_\_\_  
\_\_\_\_\_
6. \_\_\_\_\_  
\_\_\_\_\_
7. \_\_\_\_\_  
\_\_\_\_\_
8. \_\_\_\_\_  
\_\_\_\_\_

Held at \_\_\_\_\_ *(place)*

on \_\_\_\_\_ *(date)*

### **RESOLVED that:**

#### **RESOLVED that:**

- A. The above-mentioned Enterprises submit a Bid in Consortium/Joint Venture to the Department of Public Works in respect of the following project:

\_\_\_\_\_  
\_\_\_\_\_

*(Project description as per Bid /Tender Document)*

Bid / Tender Number: \_\_\_\_\_ *(Bid / Tender Number as per Bid /Tender Document)*

PA-15.3: Special Resolution of Consortia or Joint Ventures

B. \*Mr/Mrs/Ms: \_\_\_\_\_

in \*his/her Capacity as: \_\_\_\_\_ (Position in the Enterprise)

and who will sign as follows: \_\_\_\_\_

be, and is hereby, authorised to sign the Bid, and any and all other documents and/or correspondence in connection with and relating to the Bid, as well as to sign any Contract, and any and all documentation, resulting from the award of the Bid to the Enterprises in Consortium/Joint Venture mentioned above.

C. The Enterprises constituting the Consortium/Joint Venture, notwithstanding its composition, shall conduct all business under the name and style of:

\_\_\_\_\_

D. The Enterprises to the Consortium/Joint Venture accept joint and several liability for the due fulfilment of the obligations of the Consortium/Joint Venture deriving from, and in any way connected with, the Contract entered into with the Department in respect of the project described under item A above.

E. Any of the Enterprises to the Consortium/Joint Venture intending to terminate the consortium/joint venture agreement, for whatever reason, shall give the Department 30 days written notice of such intention. Notwithstanding such decision to terminate, the Enterprises shall remain jointly and severally liable to the Department for the due fulfilment of the obligations of the Consortium/Joint Venture as mentioned under item D above.

F. No Enterprise to the Consortium/Joint Venture shall, without the prior written consent of the other Enterprises to the Consortium/Joint Venture and of the Department, cede any of its rights or assign any of its obligations under the consortium/joint venture agreement in relation to the Contract with the Department referred to herein.

G. The Enterprises choose as the *domicilium citandi et executandi* of the Consortium/Joint Venture for all purposes arising from the consortium/joint venture agreement and the Contract with the Department in respect of the project under item A above:

Physical address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (Postal code) \_\_\_\_\_

Postal Address: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_ (Postal code) \_\_\_\_\_

Telephone number: \_\_\_\_\_

Fax number: \_\_\_\_\_

PA-15.3: Special Resolution of Consortia or Joint Ventures

|    | Name | Capacity | Signature |
|----|------|----------|-----------|
| 1  |      |          |           |
| 2  |      |          |           |
| 3  |      |          |           |
| 4  |      |          |           |
| 5  |      |          |           |
| 6  |      |          |           |
| 7  |      |          |           |
| 8  |      |          |           |
| 9  |      |          |           |
| 10 |      |          |           |
| 11 |      |          |           |
| 12 |      |          |           |
| 13 |      |          |           |
| 14 |      |          |           |
| 15 |      |          |           |

*The bidding enterprise hereby absolves the Department of Public Works & Infrastructure from any liability whatsoever that may arise as a result of this document being signed.*

**Note:**

1. \* Delete which is not applicable.
2. **NB:** This resolution must be signed by all the Duly Authorised Representatives of the Legal Entities to the consortium/joint venture submitting this tender, as named in item 2 of Resolution PA-15.2.
3. Should the number of the Duly Authorised Representatives of the Legal Entities joining forces in this tender exceed the space available above, additional names, capacity and signatures must be supplied on a separate page.
4. Resolution PA-15.2, duly completed and signed, from the separate Enterprises who participate in this consortium/joint venture, must be attached to this Special Resolution (PA-15.3).

## PA-11: BIDDER'S DISCLOSURE

### 1. PURPOSE OF THE FORM

Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

### 2. Bidder's declaration

- 2.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest (1) in the enterprise, employed by the state?

**YES / NO**

- 2.1.1 If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

| Full Name | Identity Number | Name of State institution |
|-----------|-----------------|---------------------------|
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |
|           |                 |                           |

---

(1) the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

2.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

**YES / NO**

2.2.1 If so, furnish particulars:

.....  
.....

2.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

**YES / NO**

2.3.1 If so, furnish particulars:

.....  
.....

### **3 DECLARATION**

I, the undersigned, (name).....  
in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

- 3.1 I have read and I understand the contents of this disclosure;
- 3.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;
- 3.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium<sup>2</sup> will not be construed as collusive bidding.
- 3.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.
- 3.5 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.
- 3.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

<sup>2</sup> Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

3.7 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59 of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 1, 2 and 3 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

.....  
Signature

.....  
Date

.....  
Position

.....  
Name of bidder

**This form has been aligned with SBD4**

## PA-16.1 EC: OWNERSHIP PARTICULARS

- NB:** 1. This form is to be read with the Notice and Invitation to Tender  
2. **Failure to complete this form may result in the tender being disqualified.**

|                       |  |
|-----------------------|--|
| <b>Project title:</b> | KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS |
| <b>Tender no:</b>     | KIM03/2023   |

### 1. REQUIRED DOCUMENTARY PROOF

The following documentation must be included in the tender as part of the Returnable Documents. Failure to provide the said documentation may result in the tender being disqualified.

| <b>Legal Status of Tendering Entity:</b><br><b>If the Tendering Entity is:</b>  | <b>Documentation to be submitted with the tender:</b>  |
|---|--|
| 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.<br><br>[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:<br>i. Certificate of Incorporation – CM1;<br>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<br>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:<br>i. the Founding Statement – CK1; and<br>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:<br>i. such natural person/ sole proprietor, or<br>ii. 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.   |





## PA-40: DECLARATION OF DESIGNATED GROUPS

Tender no: **KIM03/2023**

Name of Tenderer .....

EME<sup>1</sup>  QSE<sup>2</sup>  Non EME/QSE (tick applicable box)

1. LIST ALL PROPRIETORS, MEMBERS OR SHAREHOLDERS BY NAME, IDENTITY NUMBER, CITIZENSHIP AND DESIGNATED GROUPS.

| Name and Surname # | Identity/ Passport number and Citizenship## | Percentage owned | Black  | Indicate if youth  | Indicate if woman  | Indicate if person with disability                       | Indicate if living in Rural (R) / Under Developed Area (UD) / Township (T) / Urban (U).                      | Indicate if military veteran                             |
|--------------------|---|------------------|--|--|--|--|--|--|
| 1.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 2.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 3.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 4.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 5.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 6.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 7.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 8.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 9.                 |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 10.                |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 11.                |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| 12.                |   | %                | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> Yes <input type="checkbox"/> No | <input type="checkbox"/> R <input type="checkbox"/> UD <input type="checkbox"/> T <input type="checkbox"/> U | <input type="checkbox"/> Yes <input type="checkbox"/> No |

# Where Owners are themselves a Company, Close Corporation, Partnership etc, identify the ownership of the Holding Company, together with Registration number  
## State date of South African citizenship obtained (not applicable to persons born in South Africa)

<sup>1</sup> EME: Exempted Micro Enterprise

<sup>2</sup> QSE: Qualifying Small Business Enterprise

## PA- 40: DECLARATION OF DESIGNATED GROUPS

Tender no: **KIM03/2023**

### 2. DECLARATION:

The undersigned, who warrants that he/she is duly authorized to do so on behalf of the Tenderer, hereby confirms that:

- 1 The information and particulars contained in this Affidavit are true and correct in all respects;
- 2 The Broad-based Black Economic Empowerment Act, 2003 (Act 53 of 2003), Preferential Procurement Policy Framework Act, 2000 (Act 5 of 2000), National Small Business Act 102 of 1996 as amended and all documents pertaining to this Tender were studied and understood and that the above form was completed according to the definitions and information contained in said documents;
- 3 The Tenderer understands that any intentional misrepresentation or fraudulent information provided herein shall disqualify the Tenderer's offer herein, as well as any other tender offer(s) of the Tenderer simultaneously being evaluated, or will entitle the Employer to cancel any Contract resulting from the Tenderer's offer herein;
- 4 The Tenderer accepts that the Employer may exercise any other remedy it may have in law and in the Contract, including a claim for damages for having to accept a less favourable tender as a result of any such disqualification due to misrepresentation or fraudulent information provided herein;
- 5 Any further documentary proof required by the Employer regarding the information provided herein, will be submitted to the Employer within the time period as may be set by the latter;

**Signed by the Tenderer**

|                               |                  |
|-------------------------------|------------------|
|                               |                  |
| <b>Name of representative</b> | <b>Signature</b> |
|                               | <b>Date</b>      |

# **Registration on National Treasury's Central Supplier Database (CSD)**

**To be attached**

**B-BBEE EXEMPTED AFFIDAVIT FOR EXEMPTED MICRO ENTERPRISES  
(ISSUED IN TERMS OF THE AMENDED CONSTRUCTION SECTOR CODE)**

(Gazette Vol. 630 No. 41287)  
Issued in terms of paragraph 3.6.2.4.1 (B)

I, the undersigned,

|                                |  |
|--------------------------------|--|
| <b>Full name &amp; Surname</b> |  |
| <b>Identity number</b>         |  |

Hereby declare under oath as follows:

- The contents of this statement are to the best of my knowledge a true reflection of the facts.
- I am a Member  / Director  / Owner  (**Select one**) of the following enterprise and am duly authorised to act on its behalf:

|  |   |                   |                 |
|--|---|-------------------|-----------------|
| <b>Enterprise Name:</b>                                |   |                   |                 |
| <b>Trading Name (If Applicable):</b>                   |   |                   |                 |
| <b>Registration Number:</b>                            |   |                   |                 |
| <b>Enterprise Physical Address:</b>                    |   |                   |                 |
| <b>Type of Entity (CC, (Pty) Ltd, Sole Prop etc.):</b> |   |                   |                 |
| <b>Nature of Construction Business:</b>                | <b>BEP</b><br>(Built Environment Professional)  | <b>Contractor</b> | <b>Supplier</b> |
| <b>Definition of "Black People"</b>                    | As per the Broad-Based Black Economic Empowerment Act 53 of 2003 as Amended by Act No 46 of 2013 "Black People" is a generic term which means Africans, Coloureds and Indians – who are citizens of the Republic of South Africa by birth or descent; or who became citizens of the Republic of South Africa by naturalization before 27 April 1994; or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalization prior to that date;"  |                   |                 |
| <b>Definition of "Black Designated Groups"</b>         | "Black Designated Groups" means:<br>(a) unemployed black people not attending and not required by law to attend an educational institution and not awaiting admission to an educational institution;<br>(b) Black people who are youth as defined in the National Youth Commission Act of 1996;<br>(c) Black people who are persons with disabilities as defined in the Code of Good Practice on employment of people with disabilities issued under the Employment Equity Act;<br>(d) Black people living in rural and under developed areas;<br>(e) Black military veterans who qualifies to be called a military veteran in terms of the |                   |                 |

- I hereby declare under Oath that as per Amended Code Series 100 of the Amended Codes of Good Practice issued under section 9 (1) of B-BBEE Act No 53 of 2003 as Amended by Act No 46 of 2013,
  - The Enterprise is \_\_\_\_\_ % Black Owned
  - The Enterprise is \_\_\_\_\_ % Black Female Owned
  - The Enterprise is \_\_\_\_\_ % Owned by Black Designated Group (provide Black Designated Group Breakdown below as per the definition in the table above)
    - Black Youth % \_\_\_\_\_ %
    - Black Disabled % \_\_\_\_\_ %
    - Black Unemployed % \_\_\_\_\_ %
    - Black People living in Rural areas % \_\_\_\_\_ %
    - Black Military Veterans % \_\_\_\_\_ %

Effective date: 21 July 2023



**B-BBEE EXEMPTED AFFIDAVIT FOR EXEMPTED MICRO ENTERPRISES  
(ISSUED IN TERMS OF THE AMENDED CONSTRUCTION SECTOR CODE)**

4) Based on the  Financial Statements or  Management Accounts and other information available on the latest financial year-end of \_\_\_\_ / \_\_\_\_ / \_\_\_\_\_, (format: day/month/year) the annual Total Revenue was less than the applicable amount confirmed by ticking the applicable box below (Select applicable).

|            |              |  |
|------------|--------------|--|
| BEP        | R1.8 million |  |
| Contractor | R3.0 million |  |
| Supplier   | R3.0 million |  |

*If the turnover exceeds the applicable amount in the table above then this affidavit is no longer applicable and an EME certificate must be obtained from a rating agency accredited by SANAS or when applicable a B-BBEE Verification Professional Regulator appointed by the Minister of Trade and Industry.*

· Please Confirm on the below table the B-BBEE Level Contributor, **by ticking the applicable box below.**

|                           |   |  |
|---------------------------|---|--|
| 100% Black Owned          | <b>Level One</b> (135% B-BBEE procurement recognition level)  |  |
| At least 51% Black Owned  | <b>Level Two</b> (125% B-BBEE procurement recognition level)  |  |
| At least 30% Black Owned  | <b>Level Four</b> (100% B-BBEE procurement recognition level) |  |
| Less than 30% Black Owned | <b>Level Five</b> (80% B-BBEE procurement recognition level)  |  |

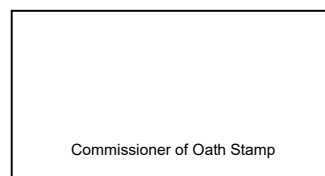
5) I know and understand the contents of this affidavit and I have no objection to take the prescribed oath and consider the oath binding on my conscience and on the Owners of the Enterprise which I represent in this matter.

6) The sworn affidavit will be valid for a period of 12 months from the date signed by commissioner.

Deponent Signature \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_\_  
Commissioner of Oaths  
Signature & stamp





## PA-16: PREFERENCE POINTS CLAIM FORM IN TERMS OF THE PREFERENTIAL PROCUREMENT REGULATIONS 2022

This preference form must form part of all tenders invited. It contains general information and serves as a claim form for preference points for specific goals.

**NB: BEFORE COMPLETING THIS FORM, TENDERERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF THE TENDER AND PREFERENTIAL PROCUREMENT REGULATIONS, 2022**

### 1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to invitations to tender:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

### 1.2 Preference Points System to be applied

*(tick whichever is applicable).*

- The applicable preference point system for this tender is the **80/20** preference point system.
- The applicable preference point system for this tender is the **90/10** preference point system.
- Either the **90/10 or 80/20** preference point system will be applicable in this tender. The lowest/ highest acceptable tender will be used to determine the accurate system once tenders are received.

### 1.3 Points for this tender shall be awarded for:

1.3.1 Price; and

1.3.2 Specific Goals

### 1.4 The maximum points for this tender are allocated as follows:

| CHOOSE APPLICABLE PREFERENCE POINT SCORING SYSTEM | <input type="checkbox"/> 80/20 | <input checked="" type="checkbox"/> 90/10 |
|---|--------------------------------|---|
| PRICE   | 80                             | 90  |
| SPECIFIC GOALS                                    | 20                             | 10  |
| Total points for Price and Specific Goals         | 100                            | 100                                       |

1.5 Breakdown Allocation of Specific Goals Points

**1.5.1. For procurement transaction with rand value greater than R2 000, 00 and up to R1 Million (Inclusive of all applicable taxes) the specific goals listed in table 1 below are applicable.**

**Table 1**

| Serial No | Specific Goals  | Preference Points Allocated out of 20 | Documentation to be submitted by bidders to validate their claim   |
|-----------|---|---------------------------------------|--|
| 1.        | An EME or QSE which is at least 51% owned by black people (Mandatory)   | 10                                    | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>  |
| 2.        | Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area (Mandatory) | 2                                     | <ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul> |
| 3.        | An EME or QSE which is at least 51% owned by black women (Mandatory)  | 4                                     | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>  |
| 4.        | An EME or QSE which is at least 51% owned by black people with disability (Mandatory)   | 2                                     | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>  |

|    |  |   |   |
|----|--|---|---|
|    |  |   | <p>and</p> <ul style="list-style-type: none"> <li>• Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• National Council for Persons with Physical Disability in South Africa registration (NCPDSA).</li> </ul> |
| 5. | An EME or QSE which is at least 51% owned by black youth (Mandatory) | 2 | <ul style="list-style-type: none"> <li>• ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>   |



**1.5.2. For procurement transaction with rand value greater than R1 Million and up to R50 Million (Inclusive of all applicable taxes) the specific goals listed in table 2 below are applicable.**

**Table 2**

| Serial No | Specific Goals  | Preference Points Allocated out of 20 | Documentation to be submitted by bidders to validate their claim   |
|-----------|---|---------------------------------------|--|
| 1.        | An EME or QSE or any entity which is at least 51% owned by black people (Mandatory)   | 10                                    | <ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>          |
| 2.        | Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area (Mandatory) | 2                                     | <ul style="list-style-type: none"> <li>• Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p>Or</p> |



|    |   |   |   |
|----|---|---|---|
|    |   |   | <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul>   |
| 3. | An EME or QSE or any entity which is at least 51% owned by black women (Mandatory)                  | 4 | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>   |
| 4. | An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory) | 2 | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</p> |

|    |  |   |   |
|----|--|---|---|
| 5. | An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory) | 2 | <ul style="list-style-type: none"> <li>ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> |
|----|--|---|---|



**1.5.3. For procurement transaction with rand value greater than R50 Million (Inclusive of all applicable taxes) the specific goals listed in table 3 below are applicable.**

**NB. The use of one of goal numbers' 4 or 5 is mandatory. The BSC must select either one of the two, but not both.**

**Table 3**

| Serial No | Specific Goals  | Preference Points Allocated out of 10 | Documentation to be submitted by bidders to validate their claim   |
|-----------|---|---------------------------------------|--|
| 1.        | An EME or QSE or any entity which is at least 51% owned by black people (Mandatory)   | 4                                     | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>  |
| 2.        | Located in a specific Local Municipality or District Municipality or Metro or Province area for work to be done or services to be rendered in that area (Mandatory) | 2                                     | <ul style="list-style-type: none"> <li>Official Municipal Rates Statement which is in the name of the bidder.</li> </ul> <p style="text-align: center;">Or</p> <ul style="list-style-type: none"> <li>Any account or statement which is in the name of the bidder.</li> </ul> <p style="text-align: center;">Or</p> <ul style="list-style-type: none"> <li>Permission to Occupy from local chief in case of rural areas (PTO) which is in the name of the bidder.</li> </ul> <p style="text-align: center;">Or</p> <ul style="list-style-type: none"> <li>Lease Agreement which is in the name of the bidder.</li> </ul> |
| 3.        | An EME or QSE or any entity which is at least 51%   | 2                                     | <ul style="list-style-type: none"> <li>SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul>  |

|  |  |   |   |   |
|--|--|---|---|---|
|  |  | owned by black women (mandatory)  |   |   |
|  | 4. <input type="checkbox"/>            | An EME or QSE or any entity which is at least 51% owned by black people with disability (Mandatory) | 2 | <ul style="list-style-type: none"> <li>• SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable.</li> </ul> <p>and</p> <ul style="list-style-type: none"> <li>• Medical Certificate indicating that the disability is permanent.</li> </ul> <p>Or</p> <ul style="list-style-type: none"> <li>• South African Social Security Agency (SASSA) Registration indicating that the disability is permanent.</li> </ul> <p>Or</p> <p>National Council for Persons with Physical Disability in South Africa registration (NCPDPSA).</p> |
|  | <b>OR</b>                              |   |   |   |
|  | 5. <input checked="" type="checkbox"/> | An EME or QSE or any entity which is at least 51% owned by black youth (Mandatory)                  | 2 | <ul style="list-style-type: none"> <li>• ID Copy and SANAS Accredited BBBEE Certificate or Sworn Affidavit where applicable</li> </ul>  |

**Black people** mean Africans, Coloureds and Indians, who - (a) are citizens of the Republic of South Africa by birth or descent; or (b) became citizens of the Republic of South Africa by naturalisation - (i) before 27 April 1994; or (ii) on or after 27 April 1994 and who would have been entitled to acquire citizenship by naturalisation prior to that date. (BROAD-BASED BLACK ECONOMIC EMPOWERMENT ACT No 25899, 2003 of 9 JANUARY 2004).

- 1.6 Failure on the part of the tenderer to submit proof or documentation required in terms of this tender to claim points for specific goals, if the service provider/ tenderer did not submit proof or documentation required to claim for specific goals will be interpreted to mean that preference points for specific goals are not claimed.
- 1.7 The organ of state reserves the right to require of a service provider/tenderer, either before a tender is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the organ of state.

## 2. DEFINITIONS

- (a) **“tender”** means a written offer in the form determined by an organ of state in response to an invitation to provide goods or services through price quotations,

competitive tendering process or any other method envisaged in legislation;

- (b) “**price**” means an amount of money tendered for goods or services, and includes all applicable taxes less all unconditional discounts;
- (c) “**rand value**” means the total estimated value of a contract in Rand, calculated at the time of bid invitation, and includes all applicable taxes;
- (d) “**tender for income-generating contracts**” means a written offer in the form determined by an organ of state in response to an invitation for the origination of income-generating contracts through any method envisaged in legislation that will result in a legal agreement between the organ of state and a third party that produces revenue for the organ of state, and includes, but is not limited to, leasing and disposal of assets and concession contracts, excluding direct sales and disposal of assets through public auctions; and
- (e) “**the Act**” means the Preferential Procurement Policy Framework Act, 2000 (Act No. 5 of 2000).

### 3. FORMULAE FOR PROCUREMENT OF GOODS AND SERVICES

#### 3.1. POINTS AWARDED FOR PRICE

##### 3.1.1. THE 80/20 OR 90/10 PREFERENCE POINT SYSTEMS

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} - \frac{\mathbf{Pt} - \mathbf{Pmin}}{\mathbf{Pmin}} \right) \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmin = Price of lowest acceptable tender

#### 3.2. FORMULAE FOR DISPOSAL OR LEASING OF STATE ASSETS AND INCOME GENERATING PROCUREMENT

##### 3.2.1. POINTS AWARDED FOR PRICE

A maximum of 80 or 90 points is allocated for price on the following basis:

$$\begin{array}{ccc} \mathbf{80/20} & \mathbf{or} & \mathbf{90/10} \\ \\ \mathbf{Ps} = \mathbf{80} \left( \mathbf{1} + \frac{\mathbf{Pt} - \mathbf{Pmax}}{\mathbf{Pmax}} \right) & \mathbf{or} & \mathbf{Ps} = \mathbf{90} \left( \mathbf{1} + \frac{\mathbf{Pt} - \mathbf{Pmax}}{\mathbf{Pmax}} \right) \end{array}$$

Where

- Ps = Points scored for price of tender under consideration
- Pt = Price of tender under consideration
- Pmax = Price of highest acceptable tender

#### 4. POINTS AWARDED FOR SPECIFIC GOALS

- 4.1. In terms of Regulation 4(2); 5(2); 6(2) and 7(2) of the Preferential Procurement Regulations, preference points must be awarded for specific goals stated in the tender. For the purposes of this tender the tenderer will be allocated points based on the goals stated in table 1,2 and 3 above as may be supported by proof/ documentation stated in the conditions of this tender:
- 4.2. In cases where organs of state intend to use Regulation 3(2) of the Regulations, which states that, if it is unclear whether the 80/20 or 90/10 preference point system applies, an organ of state must, in the tender documents, stipulate in the case of—
- (a) an invitation for tender for income-generating contracts, that either the 80/20 or 90/10 preference point system will apply and that the highest acceptable tender will be used to determine the applicable preference point system; or
  - (b) any other invitation for tender, that either the 80/20 or 90/10 preference point system will apply and that the lowest acceptable tender will be used to determine the applicable preference point system,

then the organ of state must indicate the points allocated for specific goals for both the 90/10 and 80/20 preference point system.

**Table 4: Specific goals for the tender and points claimed are indicated per the table below.**

***(Note to organs of state: Where either the 90/10 or 80/20 preference point system is applicable, corresponding points must also be indicated as such.)***

***Note to tenderers: The tenderer must indicate how they claim points for each preference point system.)***

| The specific goals allocated points in terms of this tender  | Number of points allocated (90/10 system)<br>(To be completed by the organ of state) | Number of points allocated (80/20 system)<br>(To be completed by the organ of state) | Number of points claimed (90/10 system)<br>(To be completed by the tenderer) | <del>Number of points claimed (80/20 system)<br/>(To be completed by the tenderer)</del>                        |
|--|--|--|--|---|
| 1. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black people | 4  | <del>4</del>   |  | <div style="border: 2px solid red; border-radius: 15px; padding: 5px; display: inline-block;"><b>N.A.</b></div> |
| 2. Located in a specific Local Municipality or District Municipality or Metro or   | 2  | <del>2</del>   |  | <div style="border: 2px solid red; border-radius: 15px; padding: 5px; display: inline-block;"><b>N.A.</b></div> |

| The specific goals allocated points in terms of this tender  | Number of points allocated<br>(90/10 system)<br>(To be completed by the organ of state) | Number of points allocated<br>(80/20 system)<br>(To be completed by the organ of state) | Number of points claimed<br>(90/10 system)<br>(To be completed by the tenderer) | <del>Number of points claimed<br/>(80/20 system)<br/>(To be completed by the tenderer)</del> |
|--|---|---|---|--|
| Province area for work to be done or services to be rendered in that area  |   |   |   |  |
| 3. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black women                  | 2   | 4   |   | <b>N.A.</b>  |
| 4. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black people with disability | 2   | 2   |   | <b>N.A.</b>  |
| 5. An EME or QSE (or any entity for procurement transaction with rand value greater than R1 Million) which is at least 51% owned by black youth.*                | 2   | 2   |   | <b>N.A.</b>  |

**DECLARATION WITH REGARD TO COMPANY/FIRM**

4.3. Name of company/firm.....

4.4. Company registration number: .....

4.5. TYPE OF COMPANY/ FIRM

- Partnership/Joint Venture / Consortium
- One-person business/sole propriety
- Close corporation
- Public Company
- Personal Liability Company
- (Pty) Limited
- Non-Profit Company

State Owned Company  
[TICK APPLICABLE BOX]

4.6. I, the undersigned, who is duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the specific goals as advised in the tender, qualifies the company/ firm for the preference(s) shown and I acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraphs 1.4 and 4.2, the contractor may be required to furnish documentary proof to the satisfaction of the organ of state that the claims are correct;
- iv) If the specific goals have been claimed or obtained on a fraudulent basis or any of the conditions of contract have not been fulfilled, the organ of state may, in addition to any other remedy it may have –
  - (a) disqualify the person from the tendering process;
  - (b) recover costs, losses or damages it has incurred or suffered as a result of that person's conduct;
  - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
  - (d) recommend that the tenderer or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted from obtaining business from any organ of state for a period not exceeding 10 years, after the *audi alteram partem* (hear the other side) rule has been applied; and
  - (e) forward the matter for criminal prosecution, if deemed necessary.

|                                    |       |
|------------------------------------|-------|
| .....                              |       |
| <b>SIGNATURE(S) OF TENDERER(S)</b> |       |
| <b>SURNAME AND NAME:</b>           | ..... |
| <b>DATE:</b>                       | ..... |
| <b>ADDRESS:</b>                    | ..... |
|                                    | ..... |
|                                    | ..... |
|                                    | ..... |

**ADDITIONAL RETURNABLE DOCUMENTS THAT MAY BE REQUIRED  
FOR TENDER EVALUATION PURPOSES**

**Legal Status of Tendering Entity**

**Any additional information relating to risk assessment criteria as  
contained in C2.1 of T1.2 Tender Data**





# public works

Department:  
Public Works  
**REPUBLIC OF SOUTH AFRICA**

## DECLARATION – EPWP PROGRAMME

I \_\_\_\_\_ from the Company

Hereby Undertake To Comply To :

**1. LABOUR INTENSIVE CONSTRUCTION METHODS (LIC)**

1.1 Comply To Implementation Of LIC BOQ Items Specified Elsewhere In The Tender Documents

**2. RECRUITMENT AND PLACEMENT OF EPWP NYS PARTICIPANTS**

2.1 Recruitment, Placement And Exposure Training Of **fifty-five (55) Participants**

2.2 Comply To EPWP BOQ, Specifications and Code Of Good Practice

**3. RECRUITMENT AND PLACEMENT OF LOCAL LABOURERS**

3.1 Recruitment And Placement Of **hundred and sixty (160) Local Labourers**

3.2 Comply With Applicable Wage Order/ Determination or Agreement, In Terms of Labour Relations Act or Wage Act

**4. COMPLY TO EPWP MONTHLY REPORTING REQUIREMENTS**

**Monthly, Prepare And Submit Below EPWP Reports Attached To Monthly Payments Certificate :**

- 4.1 All Employees and EPWP Participants Contracts
- 4.2 All Employees And EPWP Participants Certified SA ID Copies
- 4.3 All Employees And EPWP Participants Attendance Registers
- 4.4 All Employees and EPWP Participants Proof Of Payment
- 4.5 EPWP Reports Populated On Standard Templates

**5. PENALTY FOR NON COMPLIANCE**

Acknowledge Non Compliance Penalty of R 3000- 00 (Three Thousands Rand) Per Month Per Participants

Signed by : \_\_\_\_\_  
Director of the Company

Company name : \_\_\_\_\_

Date : \_\_\_\_\_

**RETURNABLE DOCUMENTS THAT WILL BE  
INCORPORATED INTO THE CONTRACT**

**Schedule of Proposed Sub-contractors  
(DPW-15EC)**

**Particulars of Electrical Contractor  
(DPW-22EC)**

**Schedule of Imported Materials and Equipment  
(DPW-23EC)**

**Mechanical/Electrical/Security Work material and equipment  
schedules**

## DPW-15 (EC): SCHEDULE OF PROPOSED SUBCONTRACTORS

|                       |  |                      |                          |
|-----------------------|--|----------------------|--------------------------|
| <b>Project title:</b> | <b>KEIMOE'S MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS</b> |                      |                          |
| <b>Tender no:</b>     | <i>KIM03/2023</i>  | <b>Reference no:</b> | <i>19/2/4/2/2/2324/7</i> |

We notify you that it is our intention to employ the following Subcontractors for work in this contract.

We confirm that all subcontractors who are contracted to construct a house are registered as home builders with the National Home Builders Registration Council.

|          | <b>Name and address of proposed Subcontractor</b> | <b>Nature and extent of work</b> | <b>Previous experience with Subcontractor</b> |
|----------|---|----------------------------------|---|
| <b>1</b> |   |                                  |   |
| <b>2</b> |   |                                  |   |
| <b>3</b> |   |                                  |   |
| <b>4</b> |   |                                  |   |
| <b>5</b> |   |                                  |   |

|                               |                  |                 |             |
|-------------------------------|------------------|-----------------|-------------|
|                               |                  |                 |             |
| <b>Name of representative</b> | <b>Signature</b> | <b>Capacity</b> | <b>Date</b> |

**Name of organisation:**

## DPW-22 (EC): PARTICULARS OF ELECTRICAL CONTRACTOR

|                       |  |                      |                   |
|-----------------------|--|----------------------|-------------------|
| <b>Project title:</b> | <b><i>KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS</i></b> |                      |                   |
| <b>Tender no:</b>     | KIM03/2023   | <b>Reference no:</b> | 19/2/4/2/2/2324/7 |

|  |  |
|--|--|
| <b>Name of Electrical Contractor:</b>  |  |
| <b>Address:</b>  |  |
| <b>Electrical Contractor registration number at the Department of Labour</b> |  |

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

## DPW-23 (EC): SCHEDULE FOR IMPORTED MATERIALS AND EQUIPMENT

|                       |   |                      |                          |
|-----------------------|---|----------------------|--------------------------|
| <b>Project title:</b> | <i>KEIMOES MAGISTRATE OFFICE: CONSTRUCTION OF A NEW BUILDING INCLUDING PARKING BAYS</i> |                      |                          |
| <b>Tender no:</b>     | <i>KIM03/2023</i>   | <b>Reference no:</b> | <i>19/2/4/2/2/2324/7</i> |

This schedule should be completed by the tenderer. *(Attach additional pages if more space is required)*

| Item | Material / Equipment | Rand (R) (Excluding VAT) |
|------|----------------------|--------------------------|
| 1.   |                      | R                        |
| 2.   |                      | R                        |
| 3.   |                      | R                        |
| 4.   |                      | R                        |
| 5.   |                      | R                        |
| 6.   |                      | R                        |

Provide additional list if space provided is insufficient.

**The Contractor shall list imported items, materials and/or equipment which shall be excluded from the Contract Price Adjustment Provisions (if applicable) and shall be adjusted in terms of currency fluctuations only.** Copies of the supplier's quotations for the items, materials or equipment (provided that such costs shall not be higher than the relevant contract rate as listed above) should be lodged with the Principal Agent / Engineer of the Department of Public Works and Infrastructure within 60 (sixty) days from the date of acceptance of the tender. No adjustment of the local VAT amount, nor the contractor's profit, discount, mark-up, handling costs, etc. shall be allowed.

These net amounts will be adjusted as follows:

**FORMULA:**

The net amount to be added to or deducted from the contract sum:

$$A = V \left( \frac{Z}{Y} - 1 \right)$$

A = the amount (R) of adjustment

V = the net amount (supplier's quotation) (R) of the imported item

Y = exchange rate at the closing date of tender submission

Z = exchange rate on the date of payment.

|                  |           |      |
|------------------|-----------|------|
|                  |           |      |
| Name of Tenderer | Signature | Date |

KIM03/2023

19/2/4/2/2/2324/7

# **ELECTRICAL WORK MATERIAL AND EQUIPMENT SCHEDULES**

#### 4. SECTION 4 – SCHEDULES OF TECHNICAL INFORMATION

##### 4.1. Engine

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 1.  | Manufacturer's Name  |         |
| 2.  | Country of Origin  |         |
| 3.  | Manufacturer's model No. and year of manufacture   |         |
| 4.  | Continuous sea level rating after allowing for ancillary equipment :<br><br>a) In b.h.p.<br>b) In kW   |         |
| 5.  | Percentage de-rating for site conditions, in accordance with SANS 8528<br><br>a) For altitude<br>b) For temperature<br>c) For humidity<br>d) Total de-rating   |         |
| 6.  | Net output on site in kW   |         |
| 7.  | Nominal speed in r.p.m.  |         |
| 8.  | Number of cylinders  |         |
| 9.  | Strokes per working cycle  |         |
| 10. | Stroke in mm   |         |
| 11. | Cylinder bore in mm  |         |
| 12. | Swept volume in cm <sup>3</sup>  |         |
| 13. | Mean piston speed in m/min   |         |
| 14. | Compression ratio  |         |
| 15. | Cyclic irregularity  |         |
| 16. | Fuel consumption of the complete generating set on site in l/h of alternator output at :<br><br>a) Full load<br>b) ¾ load<br>c) ½ load<br><br>NOTE :<br><br>A tolerance of 5% shall be allowed above the stated value of fuel consumption. |         |
| 17. | Make of fuel injection system.   |         |
| 18. | Capacity of fuel tank in litres  |         |

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 19. | Is gauge glass fitted to tank?   |         |
| 20. | Is electric pump for filling the fuel tank included?   |         |
| 21. | Method of starting   |         |
| 22. | Voltage of starting system   |         |
| 23. | Method of cooling  |         |
| 24. | Type of radiator if water-cooled   |         |
| 25. | Type of heater for warming cylinder heads  |         |
| 26. | Capacity of heater in kW   |         |
| 27. | Method of protection against high temperature  |         |
| 28. | Method of protection against low oil pressure  |         |
| 29. | Type of governor   |         |
| 30. | Speed variation in %<br><br>a. Temporary<br>b. Permanent   |         |
| 31. | Minimum time required for as assumption of full load in seconds  |         |
| 32. | Recommended interval in running hours for :<br><br>a. Lubricating oil change<br>b. Oil filter element change<br>c. Decarbonising |         |
| 33. | Type of base   |         |
| 34. | Can plant be placed on solid concrete floor?   |         |
| 35. | Are all accessories and ducts included?  |         |
| 36. | Is engine naturally aspirated?   |         |
| 37. | Are performance curves attached?   |         |
| 38. | Diameter of exhaust pipe   |         |
| 39. | Noise level in plant room in dBA   | N/A     |
| 40. | Noise level at tail of exhaust pipe in dBA   |         |
| 41. | BMEP (4 stroke) at continuous rating (kPa)   |         |
| 42. | % Load acceptance to SANS 8528, with 10% transient speed drop  |         |



#### 4.2. Alternator

| NO  | ITEM   | REMARKS |
|-----|--|---------|
| 1.  | Maker's name and model no.   |         |
| 2.  | Country of Origin and year of manufacture  |         |
| 3.  | Type of enclosure  |         |
| 4.  | Nominal speed in r.p.m.  |         |
| 5.  | Number of bearings   |         |
| 6.  | Terminal voltage   |         |
| 7.  | Sea level rating kVA at 0,9 power factor   |         |
| 8.  | De-rating for site conditions  |         |
| 9.  | Input required in kW   |         |
| 10. | Method of excitation   |         |
| 11. | Efficiency at 0,9 power factor and :<br>a) Full load<br>b) $\frac{3}{4}$ load<br>c) $\frac{1}{2}$ load |         |
| 12. | Maximum permanent voltage variation in %   |         |
| 13. | Transient voltage dip on full load   |         |
| 14. | Voltage recovery on full load application in milli-seconds   |         |
| 15. | Is alternator brushless?   |         |
| 16. | Class of insulation of windings  |         |
| 17. | Is alternator tropicalised?  |         |
| 18. | Symmetrical short circuit current at terminals n Ampere  |         |
| 19. | Type of Coupling   |         |

### 4.3. Switchboard

| NO  | ITEM  | REMARKS |
|-----|---|---------|
| 1.  | Maker's Name  |         |
| 2.  | Country of Origin   |         |
| 3.  | Is board floor mounted?   |         |
| 4.  | Finish of board   |         |
| 5.  | Make of volt, amp, and frequency meters   |         |
| 6.  | Dial size of meters in mm   |         |
| 7.  | Scale range of voltmeter  |         |
| 8.  | Scale range of ammeters   |         |
| 9.  | Ration of current transformers  |         |
| 10. | Make of hour meter  |         |
| 11. | Range of cyclometer counter   |         |
| 12. | Smallest unit shown on counter (Item 11)  |         |
| 13. | Make of circuit breaker   |         |
| 14. | Type of circuit breaker   |         |
| 15. | Rating of circuit breaker in Amp and fault level in kA  |         |
| 16. | Setting range of overload trips   |         |
| 17. | Setting range of instantaneous trips  |         |
| 18. | Make of change-over equipment   |         |
| 19. | Make of voltage relay   |         |
| 20. | Is control and protection equipment mounted on a small removable panel?                           |         |
| 21. | Type of control equipment   |         |
| 22. | Make of mains isolator  |         |
| 23. | Type of indicators for protective devices   |         |
| 24. | Make of rectifier   |         |
| 25. | Type of rectifier   |         |
| 26. | Is battery charging   |         |
| 27. | Are volt- and ammeters provided for charging circuit?   |         |
| 28. | Is the alarm hooter of the continuous duty type?  |         |
| 29. | Rating in Amps of :<br>a. Change-over equipment<br>b. Mains on load isolator<br>c. By-pass switch |         |

|     |  |  |
|-----|--|--|
|     | d. Circuit breaker to outgoing feed                        |  |
| 30. | Is manufacture of switchboard/control panel to be sub-let? |  |
| 31. | If yes, state name and address of specialist manufacturer  |  |

**4.4. Battery**

| NO | ITEM                       | REMARKS |
|----|----------------------------|---------|
| 1. | Maker's Name               |         |
| 2. | Country of Origin          |         |
| 3. | Type of battery            |         |
| 4. | Voltage of battery         |         |
| 5. | Number of cells            |         |
| 6. | Capacity in cold crank amp |         |

**4.5. Dimensions**

| NO | ITEM   | REMARKS |
|----|--|---------|
| 1. | Overall dimensions of set in mm  |         |
| 2. | Overall mass   |         |
| 3. | Is the canopy/container adequate for the installation of the set, switch board and fuel tank |         |

**4.6. Deviation from the Specification as an Alternative (State Briefly)**

| NO | DESCRIPTION |
|----|-------------|
|    |             |
|    |             |
|    |             |
|    |             |
|    |             |

**4.7. Spare Parts and Maintenance Facilities**

| NO | ITEM  | REMARKS |
|----|---|---------|
| 1  | Approximate value of spares carried in stock for this particular diesel engine and alternator |         |
| 2  | Where are these spares held in stock  |         |
| 3  | What facilities exist for the servicing of the equipment offered                              |         |
| 4  | Where are these facilities available  |         |

## PART 5: ELECTRICAL WORK MATERIAL SCHEDULE

The schedules will be scrutinised by the Electrical Engineer and should any material offered not comply with the requirements contained in the specification, the Contractor will be required to supply material in accordance with the contract at no additional cost.

**NB:** Only one manufacturer's name to be inserted for each item.

| Item | Material                         | Make or trade name | Country of origin |
|------|----------------------------------|--------------------|-------------------|
| 1.   | Distribution boards              |                    |                   |
| 2.   | Circuit breakers 1P, 2P, 3P      |                    |                   |
| 3.   | On load isolators without trips  |                    |                   |
| 4.   | Contactors 1P, 2P, 3P            |                    |                   |
| 5.   | Earth leakage relays 1 & 3 phase |                    |                   |
| 6.   | Daylight sensitive switch        |                    |                   |
| 7.   | Time switch                      |                    |                   |
| 8.   | Conduit                          |                    |                   |
| 9.   | Conduit boxes                    |                    |                   |
| 10.  | Power skirting                   |                    |                   |
| 11.  | Surface switches                 |                    |                   |
| 12.  | Watertight switches              |                    |                   |
| 13.  | 16A flush socket outlets         |                    |                   |
| 14.  | 16A surface socket outlets       |                    |                   |
| 15.  | 16A watertight socket outlets    |                    |                   |
| 16.  | Type PL3                         |                    |                   |
| 17.  | Type C                           |                    |                   |
| 18.  | Type B                           |                    |                   |
| 19.  | Type P1                          |                    |                   |
| 20.  | Type B1                          |                    |                   |
| 21.  | Type PL4                         |                    |                   |
| 22.  | Type D1                          |                    |                   |
| 23.  | Type D2                          |                    |                   |
| 24.  | Type Y                           |                    |                   |
| 25.  | Type LD                          |                    |                   |
| 26.  | Type P                           |                    |                   |
| 27.  | Type P2                          |                    |                   |
| 28.  | PVCA cable                       |                    |                   |
| 29.  | Cable trays                      |                    |                   |
| 30.  | UPS                              |                    |                   |

**PART5.1 : PARTICULARS OF ELECTRICAL CONTRACTOR**

|   |
|---|
| <b>PARTICULARS OF ELECTRICAL CONTRACTOR</b> |
|---|

NAME OF SUB-CONTRACTOR: ELECTRICAL

.....

.....

ADDRESS:

.....

.....

TELEPHONE NO:

.....

EMAIL:

.....

CELL PHONE:

.....

CONTRACTOR REGISTRATION NUMBER:

.....

.....

SIGNATURE OF ELECTRICAL SUB-CONTRACTOR

KIM03/2023

19/2/4/2/2/2324/7

# **ELECTRONIC WORK MATERIAL AND EQUIPMENT SCHEDULES**

**PART3- SCHEDULES OF INFORMATION**

**GENERAL**

This section of the Specification forms part of, and must be read in conjunction with, Parts 1 to 2, as well as the drawings.

**SCHEDULE OF ADDITIONAL LABOUR (Rand/hour)**

These tariffs shall be used for the charging of labour costs not included in other tariffs. P & G amounts are excluded. These tariffs will be subject to negotiation by the Engineer during the installation phase.

|                 | <i>SUPERVISOR<br/>(R/H)</i> | <i>FOREMAN<br/>(R/H)</i> | <i>ARTISAN<br/>(R/H)</i> | <i>REGISTERED<br/>APPRENTICE<br/>(R/H)</i> | <i>LABOURER<br/>(R/H)</i> |
|-----------------|-----------------------------|--------------------------|--------------------------|--|---------------------------|
| Normal Time     |                             |                          |                          |  |                           |
| Weekly Overtime |                             |                          |                          |  |                           |
| Sunday Time     |                             |                          |                          |  |                           |

**SCHEDULE OF ADDITIONAL TRANSPORT (Travelling Costs)**

Should the Contractor be successful in Tendering, the following costs per kilometre shall pertain to the cost of all additional travelling.

| <i>VEHICLE GROSS MASS</i> | <i>COST PER KILOMETRE</i>  |                            |
|---------------------------|----------------------------|----------------------------|
|                           | <i>Tarred Surface Road</i> | <i>Gravel Surface Road</i> |
| Car                       | R _____/km                 | R _____/km                 |
| 1000 kg                   | R _____/km                 | R _____/km                 |
| 3000 kg                   | R _____/km                 | R _____/km                 |

**SCHEDULE OF PROFIT FOR MATERIAL FOR VARIATIONS**

The following profit percentage is applicable to all materials not included in other tariffs, P & G items excluded, and will be subject to negotiation by the Engineer during the installation phase.

If the Tender is successful, the following percentage profit shall be applicable on the cost of all materials specified for variation order purposes for which unit prices have not been included in this Tender Document.

The stated percentage profit is not fixed and the Engineer may negotiate for a lower percentage during variation.

The Engineer shall be at liberty to call for adjustment of individual prices, as considered necessary, on the basis of the average ruling prices as determined by the Engineer for similar work in the industry, in the area in which the work is being carried out.

| <i>VARIATIONS</i> | <i>PERCENTAGE PROFIT</i> |
|-------------------|--------------------------|
| Additions         | .....%                   |
|                   |                          |

**SCHEDULE OF EQUIPMENT**

Should the Tender be successful, the following material/equipment will be used.

The Contractor shall submit full details regarding the information required when submitting the Tender.

This includes equipment that was not specified in this document, but may form part of the installation.

Failure to include full details regarding the information required will invalidate the Tender.

Access Control:

| <i>DESCRIPTION</i>                        | <i>MANUFACTURER OR TRADE NAME</i> |
|---|-----------------------------------|
| [a] Access Control Software               |                                   |
| [b] Biometric Readers                     |                                   |
| [c] Biometric Readers (Time & Attendance) |                                   |
| [d] Magnetic Locks                        |                                   |
| [e] Electric Door Strikes                 |                                   |
| [f] Reader Controller                     |                                   |
| [g] Printer                               |                                   |
| [h] Batteries for Backup                  |                                   |

Tel & Data:

| <i>DESCRIPTION</i>              | <i>MANUFACTURER OR TRADE NAME</i> |
|---------------------------------|-----------------------------------|
| [i] POE Network switches        |                                   |
| [j] CAT 7A Network cabling      |                                   |
| [k] Fibre optic cabling         |                                   |
| [l] RJ45 cradles and connectors |                                   |
| [m] VOIP PBX system             |                                   |
| [n] IP phones                   |                                   |
| [o] Switch Board                |                                   |
| [p] 42U Data Cabinet            |                                   |

Intercom & Voice evacuation:

| <i>DESCRIPTION</i>     | <i>MANUFACTURER OR TRADE NAME</i> |
|------------------------|-----------------------------------|
| [q] Main Control Panel |                                   |
| [r] Speakers           |                                   |
| [s] Volume Control     |                                   |
| [t] Wiring             |                                   |
| [u] Siren              |                                   |



Fire Detection:

| <i>DESCRIPTION</i>         | <i>MANUFACTURER OR TRADE NAME</i> |
|----------------------------|-----------------------------------|
| [v] Main Control Panel     |                                   |
| [w] Sub-Indication Panel   |                                   |
| [x] Bell/Siren             |                                   |
| [y] Detectors              |                                   |
| [z] Door Magnets           |                                   |
| [aa] Printer               |                                   |
| [bb] Heat Resistant Wiring |                                   |

Building Management System:

| <i>DESCRIPTION</i>        | <i>MANUFACTURER OR TRADE NAME</i> |
|---------------------------|-----------------------------------|
| [cc] Software             |                                   |
| [dd] Gate way controllers |                                   |
| [ee] Communication wiring |                                   |

**SCHEDULE OF WORK COMPLETED BY TENDERER (Previous Contracts)**

The Tenderer must, in the space below, supply a list of at least three Customer/s Contracts of a similar/comparable nature (reference sites) that were completed by him or where similar systems have been installed by him within the last three years.

Arrangements will be made with the Contractor during the evaluation period, to visit at least one of the sites, where a successful installation of a similar/comparable nature has been made.

| <i>PROJECTS COMPLETED</i>       |   |                                |                      |                           |
|---------------------------------|---|--------------------------------|----------------------|---------------------------|
| <i>CLIENT NAME AND TEL. NO.</i> | <i>CONSULTING ENGINEERS NAME AND TEL. NO.</i> | <i>TYPE OF WORK (CONTRACT)</i> | <i>VALUE OF WORK</i> | <i>YEAR OF COMPLETION</i> |
|                                 |   |                                |                      |                           |
|                                 |   |                                |                      |                           |
|                                 |   |                                |                      |                           |

| <i>PROJECTS CURRENTLY UNDER CONSTRUCTION</i> |   |                                |                      |                           |
|--|---|--------------------------------|----------------------|---------------------------|
| <i>CLIENT NAME AND TEL. NO.</i>              | <i>CONSULTING ENGINEERS NAME AND TEL. NO.</i> | <i>TYPE OF WORK (CONTRACT)</i> | <i>VALUE OF WORK</i> | <i>YEAR OF COMPLETION</i> |
|  |   |                                |                      |                           |
|  |   |                                |                      |                           |
|  |   |                                |                      |                           |

**SCHEDULE OF SUB-CONTRACTORS**

The Contractor shall state in the schedule below the names of all Sub-Contractors he wishes to employ for the works, and shall define their duties and outline their experience.

Acceptance of this Tender should not be seen as acceptance of all or any of the Sub-Contractors. If any of the Sub-Contractors is not approved after acceptance of the Tender, it will not invalidate the Tender and the tender tariff for the various items will remain final and binding, even should the Engineer approve a Sub-Contractor who was not mentioned in the Tender Document.

| <i>NAME OF SUB-CONTRACTOR</i> | <i>PROPOSED DUTIES</i> | <i>EXPERIENCE</i> |
|-------------------------------|------------------------|-------------------|
|                               |                        |                   |
|                               |                        |                   |
|                               |                        |                   |
|                               |                        |                   |

**SCHEDULE OF PROPOSED PERSONNEL AND LABOUR**

Tenderers must indicate the personnel and labour that will be utilised for the completion of the Contract.

| <i>PERSONNEL AND LABOUR</i>       | <i>NUMBER</i> |
|-----------------------------------|---------------|
| [a] Technical Personnel           |               |
| [b] Clerical Personnel            |               |
| [c] Artisan                       |               |
| [d] Skilled Labour                |               |
| [e] Unskilled Labour              |               |
| <b>TOTAL PERSONNEL AND LABOUR</b> |               |

**9. TRAINING**

With regard to the training of the Employer’s Operators and Technical Personnel, the Tenderer confirms the following fixed prices (including P&G’s, but excluding VAT) and details.

**9.1 OPERATOR / SECURITY STAFF TRAINING**

{a} Cost/Person R \_\_\_\_\_

{b} Duration of course \_\_\_\_\_ Days

{c} Brief description of course outline:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**9.2 TECHNICAL / MAINTENANCE STAFF TRAINING**

{a} Cost/Person R\_\_\_\_\_

{b} Duration of course \_\_\_\_\_ Days

{c} Brief description of course outline:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**SIGNATURE OF TENDERER:** \_\_\_\_\_

**EMAIL:** \_\_\_\_\_

**NAME OF TENDERER:** \_\_\_\_\_

**ADDRESS OF TENDERER:** \_\_\_\_\_

**TELEPHONE NO.:** \_\_\_\_\_

**FAX NO.:** \_\_\_\_\_

**CELL NO.:** \_\_\_\_\_

**10. DRAWINGS**

| TEKENING NR.<br>DRAWING NO. | TITEL EN BESKRYWING<br>TITLE AND DESCRIPTION | SOORT<br>TYPE | GROOTTE<br>SIZE |
|-----------------------------|--|---------------|-----------------|
| EE-10742-E-327-01-0         | ACCESS CONTROL LAYOUT GROUND FLOOR           | PAPER         | A1              |
| EE10742-E-327-02-0          | ACCESS CONTROL LAYOUT FIRST FLOOR            | PAPER         | A1              |
| EE-10742-E-327-03-0         | ACCESS CONTROL LAYOUT BASEMENT               | PAPER         | A1              |
| EE10742-E-701-01-0          | CABLE TRAY & CHANNEL LAYOUT GROUND FLOOR     | PAPER         | A1              |
| EE10742-E-701-02-0          | CABLE TRAY & CHANNEL LAYOUT FIRST FLOOR      | PAPER         | A1              |
| EE10742-E-340-01-0          | FIRE DETECTION LAYOUT GROUND FLOOR           | PAPER         | A1              |
| EE10742-E-340-02-0          | FIRE DETECTION LAYOUT FIRST FLOOR            | PAPER         | A1              |
| EE10742-E-340-03-0          | FIRE DETECTION LAYOUT BASEMENT               | PAPER         | A1              |
| EE10742-E-747-01-0          | HVAC POWER POINTS LAYOUT GROUND FLOOR        | PAPER         | A1              |
| EE10742-E-747-02-0          | HVAC POWER POINTS LAYOUT FIRST FLOOR         | PAPER         | A1              |
| EE10742-E-747-03-0          | HVAC POWER POINTS LAYOUT ROOF                | PAPER         | A1              |

**PART 4: Technical Specification**

**TECHNICAL SPECIFICATION**  
**FOR**  
**X-RAY INSPECTION UNIT**

| CLAUSE  | DESCRIPTION  | STATE DETAILS OF OFFER           |
|---------|--|----------------------------------|
| 1.1     | <b><u>GENERAL</u></b>  |                                  |
| 1.1.1   | A licence for the X-ray machine, issued in terms of the Hazardous Substances Act (Act 15 of 1973), must be submitted with the tender, failing which the tender will not be considered. Plus the ID No's and SANS BIN No. of the service technicians registered to carry out the servicing of the X-ray machines in accordance with the requirements of the SANS. | _____<br>_____                   |
|         | Name and tel. No. of the tenderer's contact person to make arrangements with:<br>Name: _____<br>Tel. No. _____   |                                  |
| 1.1.2   | The X-ray inspection unit shall complete with:<br><br>- Dual Energy Detector system (Multi Energy Imaging)<br>- Colour monitor (remotely operated)<br>- Conveyor belt<br>- Screening for full profile of inspection tunnel   | _____<br>_____<br>_____<br>_____ |
| 1.2     | <b><u>GENERAL SPECIFICATION</u></b>  |                                  |
| 1.2.1   | <b>Construction Details</b>  |                                  |
| 1.2.1.1 | The unit must incorporate a facility to be controlled either from the right or the left-hand side.   | _____                            |
| 1.2.1.2 | In addition a facility must be incorporated so that, the operating keyboard and monitor can be operated remotely, at least 5m from the unit.   | _____                            |
| 1.2.1.3 | Maximum height including the tunnel shall not exceed 1400mm from the floor level.  | _____                            |
| 1.2.1.4 | The unit must be quiet when in operation.  | _____                            |
| 1.2.1.5 | X-ray high voltage generator, shall be rated at 160kV and operate at 140kV   | _____                            |
| 1.2.1.6 | Ambient conditions, under which the unit must operate:<br>-0°C to 40°C<br>-relative humidity 95%, non-condensing   | _____<br>_____                   |

- 1.2.1.7 Control elements (pushbuttons, switches, etc.) are to be of sturdy design, selected for severe operating conditions. \_\_\_\_\_
- 1.2.1.8 The unit must be of steel base construction on roller castors and not exceeding 700kg in total weight. \_\_\_\_\_
- 1.2.1.9 Discharge rollers to be included with the unit. The discharge roller platform shall be long enough to prevent articles being X-rayed from falling off before it is recovered by the owner. \_\_\_\_\_
- 1.2.1.10 The conveyor belt must be designed for 24 hour, heavy-duty operation. \_\_\_\_\_
- 1.2.1.11 The unit shall not be longer than 900mm wide and 2600mm in overall length, including the conveyor belt platform. \_\_\_\_\_
- 1.2.2 **Power ratings**
- 1.2.2.1 The unit has to operate from 230V  $\pm$ 5%, 50 Hz, single phase power supply. \_\_\_\_\_
- 1.2.2.2 The maximum running current shall be less than 5A. \_\_\_\_\_
- 1.2.2.3 A suitable power point will be provided on the site by others. \_\_\_\_\_
- 1.2.3 **Image presentation**
- 1.2.3.1 Objects of the following dimensions must be able to be passed through the tunnel without any obstruction:
- Height: at least 400mm
  - Width: at least 600mm
  - Length: unlimited
- Monitor display shall cover not less than 500mm of the object length. \_\_\_\_\_
- Full scan volume must be seen on the screen, without any corner cut-off. This is a firm requirement. \_\_\_\_\_
- 1.2.3.2 Imaging scale of all objects should be constant with the minimum distortion. \_\_\_\_\_
- 1.2.3.3 A zoom facility is essential. The optimum requirement is for the push-button selection of at least 9, independent zoom sectors. The selected sector must be identified by light frame before zoom is activated. \_\_\_\_\_
- 1.2.3.4 A colour monitor (non-interlaced), screen size of at least 34cm, is required. Parallel operation of additional monitors, without modification to the unit, must be available. \_\_\_\_\_
- 1.2.3.5 The image on the monitor screen must be flicker free. \_\_\_\_\_
- 1.2.3.6 Control of brightness and of contrast must be provided on the front panel of the monitor. \_\_\_\_\_

- 1.2.3.7 Possibility of switching over from “POSITIVE” to “NEGATIVE” image should be available as an option. 

---
- 1.2.3.8 A digital memory is essential. 

---
- 1.2.3.9 The capacity of the digital memory must exceed 1Mbyte. 

---
- 1.2.3.10 The number of solid state detectors shall be not less than 1152. 

---
- 1.2.3.11 Dual (Multi) energy colour system with a four (4) colour (Industry Standard) is a firm requirement. 

---
- 1.2.3.12 Organic/Inorganic colour stripping. 

---
- 1.2.3.13 High and low penetration. 

---
- 1.2.3.14 Variable colour stripping and variable gamma edge enhancement. 

---
- 1.2.3.15 Automatic density (variable) threat alert. 

---
- 1.2.3.16 Automatic organic material threat alert. 

---
- 1.2.3.17 Operator log-in identification facility. 

---
- 1.2.3.18 Video output capabilities for recording of images shall be included. 

---
- 1.2.3.19 Voltage stabiliser must be included. 

---
- 1.2.3.20 UPS shall be included to provide 10 – 15 minutes back-up. 

---
- 1.2.4 **Resolution and penetration**
- 1.2.4.1 A sample wire with diameter of 0.16mm (AWG 34) must be distinguished on a monitor, and 30AWG wire must be visible behind 21mm of aluminium. 

---
- 1.2.4.2 The image quality on the monitor must be uniform, without distortion in the centre or the edges. 

---
- 1.2.4.3 Penetration of 25mm steel minimum must be guaranteed. 

---
- 1.2.4.4 A pre-selectable density threat level must be a feature of the equipment, with a visual and/or audible alarm if any item being screened exceeds that pre-selected density.
- 1.3 **CONTROL OPERATION – MINIMUM REQUIREMENTS**
- 1.3.1 **Controls**
- 1.3.1.1 A mains key switch for 230V main power supply is required. 

---
- 1.3.1.2 Push button – power “ON”. 

---
- 1.3.1.3 3 Push buttons for conveyor control, “GO”, “STOP” & “REVERSE”. 

---
- 1.3.1.4 As a minimum, 9 push button keyboard for zoom sector selection and a separate push button for zoom activation is required. 

---

- 1.3.1.5 A robust, RED, emergency stop push button, fitted in a prominent position on the keyboard, as well as on the X-ray unit. 

---
- 1.3.1.6 Light symbols indicating "X-ray on". 

---
- 1.3.1.7 X-ray warning signs, in accordance with the requirements of the SA Radiation Board, must be attached to each end of the tunnel in a visible position. 

---
- 1.3.1.8 Easy operation of the unit is essential. 

---
  
- 1.3.2 **Passage of luggage through X-ray unit**
- 1.3.2.1 Objects must be able to be conveyed through the unit in any orientation. 

---
- 1.3.2.2 All objects, also those which is only partially lying flat on the conveyor belt (e.g. guitars, etc.) must be fully screened. 

---
- 1.3.3 **Object representation**
- 1.3.3.1 The conveyor belt speed should be such that each point of an object, when passing through the unit, will be visible for at least 5 seconds 

---
- 1.4 **CONVEYOR BELT**
- 1.4.1 **Loading**
- 1.4.1.1 At least 75kg overall weight 

---
- 1.4.1.2 The conveyor belt must be driven by an almost noiseless drum-motor. 

---
- 1.4.2 **Dimensions**
- 1.4.2.1 Belt length: < 2100mm 

---
- 1.4.2.2 The height of the top of the conveyor belt above floor level shall be not less than 600mm, but shall not exceed 800mm 

---
- 1.4.3 **Speed and duty cycle**
- 1.4.3.1 Conveyor belt speed: approximately 0.2 m/sec. 

---
- 1.4.3.2 Up to 2400 objects must be screened per hour. 

---
- 1.4.4 **Operation**
- 1.4.4.1 Normal: Continuous operation in forward direction. 

---

1.4.4.2 Stop: \_\_\_\_\_

1.4.4.3 Reverse: Intermittent operation by pressing the reverse button. \_\_\_\_\_

1.4.4.4 Duty cycle: no warm-up period will be accepted. \_\_\_\_\_

1.5

**SAFETY**

1.5.1 **X-ray dose: Screened object**

1.5.1.1 Standard –0.1 mrem per inspection. Lower dose units may be offered as an alternative. \_\_\_\_\_

1.5.2

**Radiation leakage to surrounding**

1.5.2.1 Less than 0.5 mrems/h at any point on the surface, 5cm from the surface \_\_\_\_\_

1.5.2.2 The unit must comply with all ruling international safety regulations such as the German TUV, Swiss SEV, UK NRPB or USA FDA. \_\_\_\_\_

1.5.3 **Conveyor belt**

1.5.3.1 The feed and discharge ends of the conveyor belt are to be of such design that fingers, etc. cannot be caught during normal operation. \_\_\_\_\_

1.5.4

**Operation under fault conditions**

1.5.4.1 The X-ray tube shall be automatically de –energised when conveyor belt is stopped. \_\_\_\_\_

1.5.4.2 X-ray radiation shall only be switched on with the moving conveyor belt, before the object passes through the unit. \_\_\_\_\_

1.5.4.3 X-ray radiation shall be automatically switched off if the radiation shielding covers are removed. \_\_\_\_\_

1.5.5

**Film safety**

1.5.5.1 Tenderers must guarantee the unconditional safety of photographic material of professional quality. \_\_\_\_\_

1.5.5.2 Typical standards must allow for highly sensitive films of 1000 ASA to be irradiated at least 30 times without damage. \_\_\_\_\_

1.6

**PLACING IN POSITION AND ASSEMBLING**

1.6.1 The unit shall be placed in position and assembled on site by the successful tenderer.  
NOTE: The final placing will be determined on site. \_\_\_\_\_



1.7

**BROCHURES**

1.7.1 Brochures, furnishing description and technical specification, etc. of the unit offered, shall be submitted with the tender. If the brochures have information, which does not comply with the specification, the tenderer must submit a covering letter listing all brochure items, which do not comply and confirm that the equipment offered will comply with the specification, referring to these items.

---

1.7.2 The following information is also required:

- Manufacturer: \_\_\_\_\_
- ISO Rating: \_\_\_\_\_
- Country of origin: \_\_\_\_\_
- Model number of the unit offered \_\_\_\_\_
- Date of manufacture \_\_\_\_\_

1.8

**MAINTENANCE, SERVICE AND REPAIR**

1.8.1 The unit design must be of the low maintenance type and with minimum future service. **A statement confirming this is required from the tenderer, together with a copy of the service/maintenance schedule.**

---

1.8.2 An overall design of modular type is preferred.

---

1.8.3 Electronic modules must be easily exchanged.

---

1.8.4 All sub-assemblies in the unit must be of such a design that, maintenance and repair can be carried out by a single person, including removal and exchange of the X-ray generator tanks.

---

1.8.5 Spare parts must be locally stocked and availability guaranteed for a ten-year period, starting from the date of delivery.

---

1.9

**GUARANTEE AND SERVICE**

1.9.1 The successful tenderer shall guarantee and service the complete unit for a period of twelve (12) months from the date of delivery to site, and successful commissioning of the unit.

---

1.9.2 During the period of guarantee, the successful tenderer shall, at his own expense, carry out all necessary repair work, including material and labour, (excluding work required due to damage by others) in order to maintain the unit in a working condition.

---

1.9.3 The successful tenderer shall, during the period of guarantee, repair the unit to the satisfaction of the Department, within 24 hours after he has been notified that the unit is not operating.

---

1.10

**TRAINING**

1.10.1 The successful tenderer shall thoroughly train and instruct all the operators and supervisors, designated by the User Department in the operation of the unit.

---

1.11 **ONBOARD COMPUTER**

1.11.1 Video Memory: at least 64MB

1.11.2 Processor Speed: at least 3.2GHz

1.11.3 Storage Capacity: At least 160GB

1.11.4 A two part training programme must be incorporated in the system.

1.11.4.1 Part 1 – Initial training  
Pre-loaded images must be recalled by the computer, some without and some with threats. The operator must detect the threats and his progress is logged.

1.11.4.2 Part 2 – Ongoing training  
The system must merge fake threat images into real time images and the performance of the operator must be logged.

1.12

**MANUALS**

Three complete sets of manuals, each with the following information shall be handed over to the Department when the unit is delivered to site:

(a) Operating instructions

---

(b) Technical description with diagrams and instructions for maintenance and repairs.

---

1.13 **DEVIATIONS FROM SPECIFICATION AS ALTERNATIVE (STATE BRIEFLY)**

---

---

---

---

1.14

**DELIVERY ARRANGEMENTS/ADDRESS**

Delivery arrangements shall be co-ordinated with

Contact Person:  
Tel:

And the unit to be delivered to: -

Address

2.

**TECHNICAL INFORMATION**

State the following information of the unit offered:

- 2.1 Total height above floor level \_\_\_\_\_
- 2.2 Maximum X-ray voltage \_\_\_\_\_
- 2.3 Dimensions of the unit
  - Height \_\_\_\_\_
  - Width \_\_\_\_\_
  - Length (including conveyor belt) \_\_\_\_\_
- 2.4 Total running current \_\_\_\_\_
- 2.5 Maximum dimensions of objects:
  - Height \_\_\_\_\_
  - Width \_\_\_\_\_
  - Length \_\_\_\_\_
- 2.6 Number of detectors \_\_\_\_\_
- 2.7 Capacity of digital memory \_\_\_\_\_
- 2.8 Number of shades of grey \_\_\_\_\_
- 2.9 Maximum over-all loading on conveyor belt \_\_\_\_\_
- 2.10 Conveyor belt speed \_\_\_\_\_
- 2.11 X-ray dose per inspection \_\_\_\_\_
- 2.12 Radiation leakage at any point, 5cm away from surface \_\_\_\_\_
- 2.13 Multi-Energy mode – State colours for material discrimination \_\_\_\_\_

**TECHNICAL SPECIFICATION FOR  
ITEM - 2: ONE METAL DETECTOR**

| CLAUSE   | DESCRIPTION   | STATE DETAILS OF OFFER |
|----------|---|------------------------|
| 3.1      | <b><u>GENERAL</u></b>   |                        |
| 3.1.1    | <i>In addition to complying with the specification, the metal detector shall meet the requirements of this Specification.</i>   |                        |
|          | Name and tel. no. of the tenderer's contact person to make arrangements with:<br>Name: _____<br>Tel. No.: _____   | _____                  |
| 3.1.2    | <i>The metal detector shall consist of a free standing walk-through frame with an integral control unit, and shall be suitable to detect metallic objects on a person by means of the magnetic field principle.</i> | _____                  |
| 3.1.3    | The metal detector shall be suitable to detect ferrous and non-ferrous metals.  | _____                  |
| 3.1.4    | The metal detector shall be equipped to eliminate false alarms.   | _____                  |
| 3.1.5    | The metal detector shall scan the entire area of the walk through area and detect metal objects on a person passing through to the levels as specified.   | _____                  |
| 3.1.6    | The metal detector will incorporate self-test button to confirm that the system is operating correctly.   | _____                  |
| 3.1.7    | The metal detector shall be completely tamper proof.  | _____                  |
| 3.1.8    | The programme and sensitivity push buttons shall be so arranged that tampering by unauthorised persons is entirely eliminated.  | _____                  |
| 3.1.9    | The metal detector shall not be adversely affected by stationary metal bars or structures in the vicinity of the unit or moving metal near the archway.   | _____                  |
| 3.1.10   | The metal detector shall be capable of operating adjacent to an X-Ray inspection unit.  | _____                  |
| 3.1.11   | The detector is intended for indoor use at an altitude of up to 1800m above sea level.  | _____                  |
| 3.1.12   | The detector shall be capable of operating in the following conditions:   |                        |
| 3.1.12.1 | <i>Min. temperature: 0°C</i>  | _____                  |
| 3.1.12.2 | Max. temperature: 40°C  | _____                  |
| 3.1.12.3 | Max. relative humidity:80%  | _____                  |

|         |  |       |
|---------|--|-------|
| 3.1.13  | The operation of the metal detector shall not be adversely affected by repositioning of the frame within certain limits of its original adjusted position.   | <hr/> |
| 3.2     | <b><u>CONSTRUCTION</u></b>   |       |
| 3.2.1   | The metal detector shall comprise a free standing walk-through frame containing the detector coils and the control unit, complete with a 5m length of flexible cable and 16A 3-pin plug top. The cord and plug top shall comply with the relevant SABS specifications. | <hr/> |
| 3.2.2   | The frame and the control unit shall be of robust construction and the base of the frame shall be designed to ensure rigidity.   | <hr/> |
| 3.2.3   | The unit shall be able to execute a full body scan and detect metal objects down to the lower feet level within the settings specified.  | <hr/> |
| 3.2.4   | The finish shall be durable and maintenance free.  | <hr/> |
| 3.2.5   | The type of material used for the construction of the frame and control unit must be stated by tenderers.  | <hr/> |
| 3.2.6   | The colour range in which the metal detectors are available must be stated by tenderers. The Department will select a colour finish to suit the environment.   | <hr/> |
| 3.2.7   | All material consisting of metal shall be treated against corrosion.   | <hr/> |
| 3.2.8   | The approximate internal dimensions of the frame shall be as follows:  |       |
| 3.2.8.1 | Walk-through height : 2m   | <hr/> |
| 3.2.8.2 | State Walk-through width   | <hr/> |
| 3.3     | <b><u>CONTROL SYSTEM</u></b>   |       |
| 3.3.1   | The system shall operate by means of automatic level control adjustable to environmental changes, Without the need to reset.   | <hr/> |
| 3.3.2   | The control unit shall be equipped with the following:   |       |
| 3.3.2.1 | "ON-OFF" main switch and "MAINS ON" indicator light.   | <hr/> |
| 3.3.2.2 | Selector switch with at least ten sensitivity settings, with a maximum sensitivity to consistently detect metal at least the size of a R5, 00 coin.  | <hr/> |
|         | The sensitivity settings shall be consistent at average walking speed.   | <hr/> |

- 3.3.2.3 Visual indication in the form of an LED Bar graph indicator having at least five green lights and five red lights representing the "PROCEED" and "ALARM" zones respectively. The indicator shall give an indication of the volume of metal on a person in accordance with the sensitivity settings of the selector switch. When the "ALARM" zone is activated it shall simultaneously activate an audible alarm having a continuous tone and adjustable volume. The alarm system will automatically reset after the metal has passed through the frame. \_\_\_\_\_
- 3.3.2.4 The system shall be modular to facilitate maintenance and repairs. \_\_\_\_\_
- 3.4 **SAFETY FEATURES**
- 3.4.1 All electronic and electrical components shall be protected by lockable panels. \_\_\_\_\_
- 3.4.2 The detectors shall not have any effect on heart pacemakers. \_\_\_\_\_
- 3.4.3 The detector shall not effect magnetic storage media or camera film. \_\_\_\_\_
- 3.5 **ELECTRICAL SUPPLY SYSTEM**
- 3.5.1 The detectors shall be designed for connection to a 230V +/-5%, 50Hz, single phase, three wire (phase, neutral and earth) power supply. \_\_\_\_\_
- 3.5.2 The existing connection points on site comprises standard 16A, 3-pin, socket outlets. \_\_\_\_\_
- 3.5.3 A suitable and efficient battery back-up system to facilitate power failures of up to 1 hour must be incorporated in the detectors. \_\_\_\_\_
- 3.6 **THROUGHPUT**
- The system shall accept a passage of at least 50 persons per minute without functional overload. \_\_\_\_\_
- 3.7 **PLACING IN POSITION AND TESTING**
- 3.7.1 The detector shall be placed in position, tested, commissioned and adjusted to the user Department's requirements by the successful tenderer.  
NOTE: The final positioning will be determined on site. \_\_\_\_\_
- 3.7.2 *The system must be arranged so that the traffic-flow is channelled through the metal detector.* \_\_\_\_\_
- 3.8 **BROCHURES**
- 3.8.1 Brochures furnishing descriptions and technical specifications, etc., of the unit offered shall be submitted with the tender. \_\_\_\_\_

3.8.2 The following information is also required:

Manufacturer \_\_\_\_\_  
Year of manufacture \_\_\_\_\_  
Country of origin \_\_\_\_\_  
Model number \_\_\_\_\_

3.9 **MAINTENANCE**

3.9.1 The unit must be relatively maintenance-free and with minimum future service. A statement confirming this is required from the tenderer. \_\_\_\_\_

3.9.2 Electronic modules must be easily exchangeable. \_\_\_\_\_

3.9.3 Spare parts must be locally stocked and availability guaranteed for a ten year period starting from date Of delivery. \_\_\_\_\_

3.10 **GUARANTEE AND SERVICE**

3.10.1 The successful tenderer shall guarantee and service the complete unit for a period of twelve (12) months from date of delivery of every unit to site. \_\_\_\_\_

3.10.2 During the period of guarantee the successful tenderer shall at his own expense, carry out all necessary repair work including material and labour (excluding work required due to damage by others) in order to maintain the unit in a working condition. \_\_\_\_\_

3.10.3 The successful tenderer shall, during the period of guarantee, repair the unit to the satisfaction of the Department within 24 hours after he has been notified that the unit is not operating. \_\_\_\_\_

3.10.4 After the lapse of the initial twelve-month period of servicing under the guarantee, the successful tenderer may be required to enter into a service agreement with the Department. \_\_\_\_\_

3.11 **TRAINING**

The successful tenderer shall thoroughly train and instruct operators designated by the user Department in the operation of the unit. \_\_\_\_\_

3.12

**MANUALS**

Three complete sets of manuals, each with the following information shall be handed over to the Department when the unit is delivered to site:

- (a) Operating instructions \_\_\_\_\_
- (b) Technical description with diagrams and Instructions for maintenance and repairs. \_\_\_\_\_

3.13

**DEVIATIONS FROM SPECIFICATION AS ALTERNATIVE (STATE BRIEFLY)**

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**RETURNABLE DOCUMENTS: OTHER DOCUMENTS THAT  
WILL BE INCORPORATED INTO THE CONTRACT**

**PRICED BILLS OF QUANTITIES**

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE**

**BILLS OF QUANTITIES**  
**FOR**  
**CONSTRUCTION OF NEW**  
**MAGISTRATE OFFICE**  
**AT**  
**KEIMOOES**

**NORTHERN CAPE PROVINCE**

**ARCHITECTS**  
ASQUITH McGREGOR DESIGN STUDIO CC  
UPINGTON

**QUANTITY SURVEYORS**  
McLACHLAN DU PLOOY UPINGTON (PTY)LTD  
UPINGTON

**STRUCTURAL, CIVIL &  
MECHANICAL ENGINEERS**  
iX CONSULTING ENGINEERS  
UPINGTON

**ELECTRICAL & ELECTRONIC  
ENGINEERS**  
BVi CONSULTING ENGINEERS  
UPINGTON

**DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE**  
**KIMBERLEY REGIONAL OFFICES**

**OCTOBER 2023**

**REPUBLIC OF SOUTH AFRICA**  
**DEPARTMENT OF PUBLIC WORKS AND INFRASTRUCTURE**  
**BILLS OF QUANTITIES**  
**FOR**  
**CONSTRUCTION OF NEW MAGISTRATE OFFICE**  
**AT**  
**KEIMOOES**  
**PROVINCE OF THE NORTHERN CAPE**

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**ELECTRICAL & ELECTRONIC  
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**SECTION 1**

**PRELIMINARIES**

## SECTION 1

### PRELIMINARIES

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

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

#### BUILDING AGREEMENT AND PRELIMINARIES

The **JBCC** Principal Building Agreement (Edition 6.2 - May 2018) prepared by the Joint Building Contracts Committee shall be the applicable building agreement, amended as hereinafter described to be read in conjunction with the **Contract Data** issued with the tender.

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

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

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

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

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

#### TENDERER'S SELECTIONS

Before submission of his tender the **contractor** is to complete the tenderer's selections in the **contract data for organs of state and other public sector bodies**

#### STRUCTURE OF THIS PRELIMINARIES BILL

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

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

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

#### PRICING OF PRELIMINARIES

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

## PRICING OF BILLS OF QUANTITIES

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

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

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

### VALUE ADDED TAX

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

## SECTION A: PRINCIPAL BUILDING AGREEMENT

### INTERPRETATION

#### A1.0 DEFINITIONS AND INTERPRETATION

Clause 1.0

**The following definitions replace corresponding definitions or are added to the definitions in the JBCC PRINCIPAL BUILDING AGREEMENT (Edition 6.2 of May 2018), whatever the case may be**

**ADVERSE WEATHER CONDITIONS:** Adverse weather and inclement weather has the same meaning and used interchangeably and means any weather conditions i.e.: Rain, wind, snow, frost, temperature (cold or heat) that are not in the norm for the area where the construction takes place and during which no work is possible on site

**AGREEMENT:** The completed Form of Offer and Acceptance, the completed JBCC® Principal Building Agreement and contract data for organs of state and other public sector bodies, the contract drawings, the priced document and any other documents reduced to writing and signed by the authorised representative or representatives of the parties

**CONSTRUCTION PERIOD:** The period commencing on the date of possession of the **site** by the **contractor** and ending on the date of **practical completion**

**CONTRACT PERIOD:** The period commencing on the date of the letter of acceptance and ending on the date of final completion

**COST FLUCTUATION** shall mean contract price adjustment provision ( CPAP ) for the adjustment of fluctuation in the cost of labour, plant, material and goods as stated in the schedule

**DEFAULT INTEREST:** No Clause

**GUARANTEE FOR CONSTRUCTION:** A security in terms of the DPWI's Guarantee for Construction form/s, obtained by the contractor from an institution approved by the employer [CD]

**INTEREST:** The interest rates applicable on this contract, whether specifically indicated in the relevant clauses or not, will be the rate as 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) as amended, calculated as simple interest, in respect of debts owing to the State, and will be the rate as published by the Minister of Justice and Correctional Services from time to time, in terms of section 1(2) of the Prescribed Rate of Interest Act, 1975 (Act No 55 of 1975) as amended, calculated as simple interest, in respect of debts owing by the State

**LETTER OF ACCEPTANCE:** The letter of formal acceptance of the Contractor's or Service Provider's Tender / Bid, issued and signed by the Employer

**PAYMENT CERTIFICATE:** A certificate issued at regular agreed intervals [CD] by the principal agent to the parties certifying the amount due and payable in terms of Clause 25.3

**PRINCIPAL AGENT:** The person or entity appointed by the **employer** and named in the **contract data for organs of state and other public sector bodies**. 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 the employer's representative as named in the **contract data for organs of state and other public sector bodies**

**TARGETED SUBCONTRACTORS:** Subcontractors that must be appointed to a total of 30% or more of the contract sum, by the contractor, projects with a contract sum of the amount determined by the Minister in terms of the latest Preferential Procurement regulations, as may be amended from time to time.

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

A2.0 **LAW, REGULATIONS AND NOTICES**

Clause 2.0  
F:..... V:..... T:.....  
Item

A3.0 **OFFER AND ACCEPTANCE**

**Replace Clause 3.3 with the following:**  
This **agreement** shall come into force on the date of **letter of acceptance** and continue to be of force and effect until the end of the **latent defects** liability period [22.0] notwithstanding termination [29.0] or the certification of **final completion** [21.0] and final payment [25.0]

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

A4.0 **CESSION AND ASSIGNMENT**

Clause 4.0  
Ref Clause 6.7 [CD] - Clause 4.2

**Replace Clause 4.3 with the following:**  
Where a **contractor** cedes any right or any monies due to or to become due under this **agreement** as security in favour of a financial institution, the prior written consent of the **employer**, which consent shall not be unreasonably withheld, must be obtained

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



A5.0 DOCUMENTS

Clause 5.0

**Replace last sentence of Clause 5.2 with the following:**  
The original signed **agreement** shall be held by the **Employer**

**Replace Clause 5.4 with the following:**  
The Bills of Quantities shall not be used as a specification of material and goods or methods unless so instructed by the Principal Agent. The contractor may not use the Bills of Quantities for purpose of ordering material. All dimensions and quantities must be determined on site before ordering. In the event of discrepancy between the drawings and Bills of Quantity, the drawings shall take preference

**Replace Clause 5.5 with the following:**  
The parties may publish or disclose on any platform only the contract scope and contract amount

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

A6.0 EMPLOYER'S AGENTS

Clause 6.0

**Replace Clause 6.5 with the following:**  
Where the principal agent and/or an agent fails to act or is unable to act or ceases to be the principal agent or an agent in terms of this agreement, the employer shall appoint another principal agent and/or an agent

**Add the following as Clause 6.7:**  
In terms of the clauses listed hereunder, the employer has retained its authority and has not given a mandate to the principal agent, notwithstanding other provisions in the contract. The employer shall sign all documents in relation to clauses 4.2, 14.1.4, 14.4.1, 14.6, 15.1.4, , 15.4.1, 23.1, 23.2, 23.3, 23.7, 23.8, 26.1, 26.7, 26.12

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

A7.0 DESIGN RESPONSIBILITY

Clause 7.0

**Replace first sentence of Clause 7.2 with the following:**  
Any design responsibility undertaken by a subcontractor shall not devolve on the contractor except for items that require specific component design and or compatibility design and or shop drawings and or the assembly thereof

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

INSURANCES AND SECURITIES

A8.0 WORKS RISK

Clause 8.0

**Replace Clause 8.4 with the following:**  
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

F:.....

V:.....

T:.....

Item

A9.0 **INDEMNITIES**

Clause 9.0

**Add the following to the end of the first sentence of Clause 9.2.7:**

“.... due to no fault of the **contractor**

9.2.9 No Clause

9.2.10 No Clause

**Add the following as clause 9.3:**

The employer's rights to claim damages for the contractor's omissions and actions will not be affected.

F:.....

V:.....

T:.....

Item

A10.0 **INSURANCES**

Clause 10.0

**Replace Clause 10.1 with the following:**

The party responsible shall effect and keep the respective insurances [CD] in force, in favour of the employer as beneficiary , from the date of possession of the site until the issue of the certificate of practical completion and with an extension to cover the contractors obligations after the date of practical completion [8.2.2]

**Add the following as Clause 10.1.5.1:**

**Hi 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 sub-surface conditions that might result in catastrophic ground movement evident by sinkhole or doline formation the following will apply

**Add the following as Clause 10.1.5.1.1 Damage to the works**

The contractor shall, from the date of possession of the **site** 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

**10.1.5.1.2 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 property, 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

**10.1.5.1.3 Replace Clause with the following:**

It is the responsibility of the **contractor** to ensure that he has adequate insurance to cover his risk and liability as mentioned in 10.1.5.1.1 and 10.1.5.1.2. Without limiting the **contractor's** obligations in terms of the contract, the **contractor** shall, within twenty-one (21) **calendar days of the date of letter of acceptance**, but before commencement of the **works**, submit to the **employer** proof of such insurance policy.

**10.1.5.1.4 Replace Clause with the following:**

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 10.1.5.1.1; 10.1.5.1.2 and 10.1.5.1.3. 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

**10.2 Replace Clause with the following:**

Where practical completion in sections is required [20.0), or where the works is for alterations and additions, the contractor shall effect and keep in force contract works insurance [10.1.1], supplementary insurance [10.1.2], public liability insurance [10.1.3] and where applicable, removal of lateral support insurance [10.1.4] and other insurances [10.1.5) in favour of the employer as beneficiary

10.6 No Clause

**Add the following as Clause 10.11**

In the event that an insurer dispute the amount of the claim to be paid to the employer, the contractor shall be liable to the employer for the difference between the claim (as determined by the employers QS appointed on the project) made by the employer and the amount that the insurer is willing to pay

F:.....

V:.....

T:.....

Item

A11.0

**SECURITIES**

**Add the following as to the relevant related Clauses as follows:**

**Add the following to Clause 11.1:**

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

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 C 1.0 Securities, as stated in the schedule. Such security shall be provided to the employer within fifteen (15) working 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 fifteen (15) working days from commencement date, the security in terms of C 1.0 Option C shall be deemed to have been selected.

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5

11.1.1 No Clause

11.1.2 No Clause

11.2.2 No Clause

## 11.3 No Clause

**Replace Clause 11.4.1 with the following:**

Hand over the site to the contractor and withhold an amount equal to ten per cent (10%) of each interim payment certificate until practical completion is achieved. The value certified shall be subject to the adjustments in terms of 25.12.6 to 25.12.10.

## 11.5 No Clause

## 11.6 No Clause

## 11.7 No Clause

## 11.8 No Clause

## 11.9 No Clause

## 11.10 No Clause

**Add the following as Clause 11.11:**

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

**Add the following as Clause 11.11.1:**

The contractor shall furnish the employer with a cash deposit equal in value to ten percent (10%) of the contract sum (excluding VAT) within fifteen (15) working days from commencement date. Failure to furnish the employer with a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

**Add the following as Clause 11.11.2:**

The employer shall be entitled to recover expense and loss from the cash deposit in terms of Clause 27.0 provided that the employer notifies the Contractor 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.

**Add the following as Clause 11.11.3:**

Within fifteen (15) working 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

**Add the following as Clause 11.11.4:**

Within fifteen (15) working 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.

**Add the following as Clause 11.11.5:**

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.

**Add the following as Clause 11.11.6:**

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.

**Add the following as Clause 11.12:**

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

**Add the following as Clause 11.12.1:**

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 fifteen (15) working days after issuance of the letter of acceptance. Failure to submit an acceptable variable construction guarantee within fifteen (15) working days Clause 11.4 will apply mutatis

mutandis.

**Add the following as Clause 11.12.2:**

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

**Add the following as Clause 11.12.3:**

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

**Add the following as Clause 11.12.4:**

Where the employer has a right of recovery against the contractor in terms of 27.0, the employer shall issue a written demand in terms of the variable construction guarantee.

**Add the following as Clause 11.13:**

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:

**Add the following as Clause 11.13.1:**

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).

**Add the following as Clause 11.13.2:**

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.

**Add the following as Clause 11.13.3:**

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

**Add the following as Clause 11.13.4:**

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5.

**Add the following as Clause 11.13.5:**

Where the employer has a right of recovery against the contractor in terms of 27.0, 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 from both.

**Add the following as Clause 11.14.1:**

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:

**Add the following as Clause 11.14.2:**

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 fifteen (15) working days from commencement date. Failure to submit a cash deposit within fifteen (15) working days Clause 11.4 will apply mutatis mutandis.

**Add the following as Clause 11.14.3:**

Within fifteen (15) working days of the date of practical completion of the works the employer shall refund the cash deposit in total to the contractor.

**Add the following as Clause 11.14.4:**

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.1 - 25.12.5.

**Add the following as Clause 11.14.5:**

Where the employer has a right of recovery against the contractor in terms of 27, the

employer may recover from the payment reduction or cash deposit or from both.

**Add the following as Clause 11.15:**

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

**Add the following as Clause 11.15.1:**

The payment reduction of the value certified in a payment certificate shall be mutatis mutandis in terms of 25.12.6 to 25.12.10.

**Add the following as Clause 11.15.2:**

The employer shall be entitled to recover expense and loss from the cash deposit in terms of 27.0 provided that the employer notifies the Contractor 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.

**Add the following as Clause 11.16:**

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.

**Add the following as Clause 11.17:**

Should the contractor fail to furnish the security in terms of 11.2 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).

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

Item

**EXECUTION**

A12.0 **OBLIGATIONS OF THE PARTIES**

Clause 12.0

12.1.1 No Clause

**Replace Clause 12.1.5 with the following:**

Give possession of the site to the contractor within ten (10) working days after approval of the Health and Safety Plan or the issue of a construction permit by the Department of Labour, if applicable, after the contractor complied with the terms of 12.2.22

12.1.6 No Clause

12.1.8 No Clause

**Replace Clause 12.2.2 with the following:**

The priced Bills must be submitted to the Employer within fourteen (14) calendar days from date of request. Where the priced document contains errors or discrepancies and/or prices considered by the employer or principal agent to be imbalanced or unreasonable the employer or principal agent and the contractor shall adjust such prices without any change to the contract sum

**Replace Clause 12.2.5 with the following :**

Effect and keep in force insurances in favour of the employer as beneficiary where the contractor is responsible for providing insurances [10.0) [CD]

**Replace Clause 12.2.13 with the following:**

Designate a competent person full time on site to continuously administer and control the works on site and to receive and implement notices and contract instructions on behalf of the

contractor

**Add the following as Clause 12.2.22:**

Within fourteen (14) working days of the date of the letter of acceptance submit to the principal agent an acceptable health and safety plan, required in terms of the Occupational Health and Safety Act, 1993 (Act No 85 of 1993)

**Add the following as Clause 12.2.23:**

The contractor shall within reasonable time inform the agents regarding inspection of the works before covering / closing [B 12.0]

**Offices**

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 [12.2.18]

F:.....

V:.....

T:.....

Item

**Main notice board**

The **contractor** shall provide, erect where directed, maintain and remove on completion of the **works** a notice board size 3 x 3m as type Drawing GEN 063, constructed of suitable boarding with flat smooth surface and with edging bead 19mm thick round outer edges and projecting 12mm from face of boarding and rounded on front edge. The board shall be securely fixed to hoarding, where hoarding is provided, or fixed to and including a suitable supporting structure of timber or tubular posts and braces. The board is to be painted ivory white and the bead and 12mm wide dividing lines dark green. All wording shall be inscribed in dark green as per the coat of arms for SA. All wording shall be inscribed in dark green painted sans serif lettering [12.2.18]

F:.....

V:.....

T:.....

Item

A13.0 **SETTING OUT**

Clause 13.0

F:.....

V:.....

T:.....

Item

A14.0 **NOMINATED SUBCONTRACTORS**

Clause 14.0

Ref Clause 6.7 [CD] - Clause 14.1.4

14.1.5 No Clause

Replace "principal agent " with "employer" [6.7 [CD]] in Clause 14.4.1

Ref Clause 6.7 [CD] - Clause 14.6

F:.....

V:.....

T:.....

Item

**SECTION 1: PRELIMINARIES (SECTION A)**

**Each Item Carried to Collection**

A15.0 **SELECTED SUBCONTRACTORS**

Clause 15.0

Ref Clause 6.7 [CD] - Clause 15.1.4 & Clause 15.5

15.1.5 No Clause

**Replace Clause 15.1.2 with the following:**

The principal agent shall call for tenders from a list of tenderers agreed between the contractor and the employer

Replace “principal agent ” with “employer” [6.7 [CD]] in Clause 15.4.1

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

A16.0 **DIRECT CONTRACTORS**

Clause 16.0

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

A17.0 **CONTRACT INSTRUCTIONS**

Clause 17.0

**Replace Clause 17.4 with the following:**

The contractor shall comply with and duly execute all contract instructions except any contract instruction for additional work issued after the date of practical completion other than making good physical loss and repairing damage to the works in terms of 8.0 and 21

**Add the following clause as Clause 17.6:**

Minutes of meetings shall not constitute a site instruction unless reduced to a written contract instruction issued by the principal agent in terms of this contract / agreement.

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

**COMPLETION**

A18.0 **INTERIM COMPLETION**

Clause 18.0

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

-N/A

-

A19.0 **PRACTICAL COMPLETION**

Clause 19.0

**Replace Clause 19.5 with the following:**

On issue of the only or last certificate of practical completion the employer shall be entitled to possession of the works and the site. On issue of the certificate of practical completion for a section, the employer shall be entitled to possession of such section

**Add the following as Clause 19.8:**

**WORKS COMPLETION**

(1) Within seven (7) calendar days of the date of practical completion the principal agent shall issue to the contractor a works completion list defining the outstanding work and defects apparent at the date of practical completion to be completed or rectified to

**SECTION 1: PRELIMINARIES (SECTION A)**

**Each Item Carried to Collection**



achieve works completion.

(2) Where, in the opinion of the contractor, the works completion list has been completed the contractor shall notify the principal agent who shall inspect within seven (7) calendar days of receipt of such a notice. Where, in the opinion of the principal agent, the Works Completion list:

(2)(a) Has been satisfactorily completed, the principal agent shall forthwith issue a certificate of Works Completion to the contractor with a copy to the employer

(2)(b) Has not been satisfactorily completed, the principal agent shall forthwith identify the works completion list items that are not yet complete and inform the contractor thereof. The contractor shall repeat the procedure in terms of 19.8(2)

(3) Should the principal agent not issue a works completion list, in terms of 19.8 (1) or 19.8 (2)(b), within seven (7) calendar days from the end of the inspection period, the contractor shall notify the employer and principal agent. Should the principal agent not issue such Works Completion list within seven (7) calendar days of receipt of such notice, the employer may within seven (7) calendar days issue to the contractor a Works Completion list. Should the employer:

(3)(a) Not issue such works completion list within seven (7) calendar days, then the certificate of Works Completion shall be deemed to have been issued on the date of expiry of the initial notice period and works completion shall be deemed to have been achieved on such date

(3b) Issue a works completion list and the work on Works Completion list not have been completed or where further defects have become apparent, the employer shall forthwith identify such items on the updated works completion list and notify the contractor. The contractor shall repeat the procedure in terms of 19.8(2)(b) until such items have been completed to the satisfaction of the employer

(4) Should the works completion list not be completed to the satisfaction of the employer within a period of twenty one (21) working days of the issue first works completion list the contractor shall be liable to a daily penalty as described in B12.0

(5) The defects liability period in terms of 21.1 shall commence with the issue or deemed issue of the certificate of Works Completion in terms of 19.8(2)(a) or 19.8(3).

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

A20.0 **COMPLETION IN SECTIONS**

Clause 20.0

**Add the following as Clause 20.2.1.A**

A certificate of Works Completion [19.8]

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

N/A

A21.0 **DEFECTS LIABILITY PERIOD AND FINAL COMPLETION**

Clause 21.0

**Replace Clause 21.1 with the following:**

The defects liability period for the works shall commence on the calendar day following the date of works completion and end at midnight (00:00) ninety (90) calendar days from the date of works completion [CD] or when work on the list for completion has been satisfactorily attended to [21.6), whichever is the later (if we use works completion)

**Replace Clause 21.6 with the following:**

On the expiry of the ninety (90) calendar days defects liability period [21.1] for items not indicated as items with an extended liability as indicated in B14 and on receipt of the contractor's notice to the principal agent

And/or

On the expiry of the defects liability period as indicated in B14, for items indicated in B14 and on receipt of the contractor's notice to the principal agent, the principal agent shall:

- (1) inspect the works And within ten (10) working days either issue a list for final completion detailing all outstanding work or defects that must be attended to, or rectified to achieve final completion or
- (2) issue the certificate of final completion to the contractor with a copy to the employer for that part of the works where defects liability period has expired

21.6.1 Omit Clause

21.6.2 Omit Clause

**Add the following as Clause 21.13:**

The ninety (90) calendar days defects liability period for the works [21.1] is replaced with an extended defects liability period of three hundred and sixty-five (365) calendar days in respect of the listed applicable elements in B14

**Add the following as Clause 21.14:**

Penalties will be applied if the items on the completion list have not been attended to within a period of ninety (90) calendar days [21.1]. If additional defect items have being added to the list during this period, then the Principal Agent and Contractor will agree on a revised completion date. Failing in achieving the revised date will result in penalties being applied.[B12.0]

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

Item

**A22.0 LATENT DEFECTS LIABILITY PERIOD**

Clause 22.0

22.3.2 No Clause

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

Item

**A23.0 REVISION OF THE DATE FOR PRACTICAL COMPLETION**

Clause 23.0

Ref Clause 6.7 [CD] – Clause 23.1

Ref Clause 6.7 [CD] – Clause 23.2

23.2.13 No Clause

**Replace Clause 23.3 with the following:**

Further circumstances that delays practical completion due to any other cause beyond the contractor's reasonable control that could not have reasonably been anticipated and provided for which the contractor may be entitled to a revision of the date for practical completion, with or without an adjustment of the contract value as determined by the Employer [6.7 CD]

Ref Clause 6.7 [CD] - Clause 23.7

Ref Clause 6.7 [CD] - Clause 23.8

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

A24.0 **PENALTY FOR LATE OR NON-COMPLETION**

Clause 24.0

**Replace Clause 24.1 with the following:**

Where the contractor fails to bring the works, or a section thereof, to practical-, works-, or final-completion by the applicable completion date [CD], or the revised applicable completion date, the contractor shall be liable to the employer for the penalty [CD]

**Replace Clause 24.2 with the following:**

Where the employer elects to levy such penalty the employer, or the principal agent on instruction from the employer, shall give notice thereof to the contractor. The principal agent shall determine the penalty due from the later of the date for practical- works-, or final-completion [CD], or the revised date for practical- works-, or final- completion, up to and including the earlier of:

**Replace Clause 24.2.1 with the following:**

The actual or deemed date of practical- works-, or final- completion, of the works, or a section thereof [23.7.1]

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

**PAYMENT**

A25.0 **PAYMENT**

Clause 25.0

**Replace Clause 25.2 with the following:**

The principal agent shall issue at regular agreed intervals [CD] payment certificates, to the contractor with a copy to the employer, up to and including practical completion. Interim Payment certificates may be issued to the contractor between practical completion and the final payment certificate. A payment certificate may be for a nil or negative amount

**Add the following to Clause 25.3:**

25.3.12 Monthly Local content report,

25.3.13 EPWP / NYS payment register, labour reports and certified ID document of EPWP/ NYS beneficiaries, Contract between Contractor and EPWP/ NYS beneficiaries, attendance register. (if applicable)

25.3.14 Tax Invoice

25.3.15 Labour intensive report

25.3.16 Contract participation goal reports

25.5 No Clause

**Replace Clause 25.6 with the following:**

Materials and goods will only be certified and paid for upon providing proof of full payment to the supplier and proof of transfer of ownership from the supplier to the contractor by the contractor. Once paid, material and goods shall become the property of the employer and shall not be removed from site without the written authority of the Employer.

25.7.5 No clause.

**Replace Clause 25.10 with the following:**

The employer shall pay the contractor the amount stipulated in an issued payment certificate, correct in all material respects, within thirty (30) calendar days from the date of receiving the payment certificate, invoice and all other substantiating documentation for items certified in the payment certificate

**Replace Clauses 25.12 to 25.12.3 with the following:**

The value certified shall be subject to the following percentage adjustments :

**(Clauses 25.12.1 to 25.12.5 shall be applicable to a contract sum up to R1 million. In the event of a contract sum more than R1 million for Options D & E (C 1.0 Securities [11.0]) Clauses 25.12.1 to 25.12.5 shall be applicable)**

25.12.1 Where a security is selected in terms of C 1.0 Securities [11.0], the value of the works in terms of 25.1 and of the materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

25.12.2 Ninety-five per cent (95%) of such value in interim payment certificates issued up to the date of practical completion

25.12.3 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

25.12.4 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 26

25.12.5 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 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.

**(Clauses 25.12.6 to 25.12.10 shall be applicable to a contract sum more than R1 million for Option C (C 1.0 Securities [11.0])**

25.12.6 Where security is a payment reduction in term of C 1.0 Option C, value of the works in terms of 25.1 and materials and goods in terms of 25.4 shall be certified in full. The value certified shall be subject to the following percentage adjustments:

25.12.7 Ninety per cent (90%) of such value in interim payment certificates issued up to the date of practical completion

25.12.8 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

25.12.9 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 26

25.12.10 One hundred per cent (100%) of such value in the final payment certificate in terms of 26 except were 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

F:.....  
Item

V:.....

T:.....

A26.0 **ADJUSTMENT OF THE CONTRACT VALUE AND FINAL ACCOUNT**

Clause 26.0

Ref Clause 6.7 [CD] – Clause 26.1

Omit Clause 26.4.3

Ref Clause 6.7 [CD] – Clause 26.7

**Replace Clause 26.10 with the following:**

The principal agent shall prepare the final account in consultation with the employer and issue the final account, to the contractor within sixty (60) working days of the date of practical completion

Ref Clause 6.7 [CD] – Clause 26.12

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

A27.0 **RECOVERY OF EXPENSE AND/OR LOSS**

Clause 27.0

**Replace Clause 27.1.2 with the following:**

Interest due to late payment only

**Replace Clause 27.1.4 with the following:**

Interest due to late payment only

27.1.5 No Clause

**Replace Clause 27.5 with the following:**

Where the employer decides to recover an amount due in terms of 27.2 from a construction guarantee, cash deposit or retention money held as security, the employer shall issue a written demand to the contractor before recovering the amount. Should such amount not be paid to the employer within fourteen (14) calendar days of the date-of notice by the employer, the employer may recover such an amount from the security

**Add the following as Clause 27.6:**

Where a provisional sequestration or provisional liquidation order has been granted or where an order has been granted which commences sequestration, liquidation, bankruptcy, receivership, winding-up or any similar effect, against the contractor or this agreement is cancelled in terms of 29, the employer may issue a demand to the guarantor in terms of the construction guarantee or advance payment guarantee held as security

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

**SUSPENSION AND TERMINATION**

A28.0 **SUSPENSION BY THE CONTRACTOR**

Clause 28.0

28 No Clause

28.1 No Clause

28.1.1 No Clause

28.1.2 No Clause

28.1.3 No Clause

28.1.4 No Clause

28.1.5 No Clause

28.2 No Clause

28.3 No Clause  
28.4 No Clause

F:.....  
Item

V:.....

T:.....

A29.0 **TERMINATION**

Clause 29.0

**Add the following as Clause 29.1.4:**

The contractor's estate has been sequestrated, liquidated or surrendered in terms of the insolvency laws in force within the Republic of South Africa

**Add the following as Clause 29.1.5:**

The contractor has engaged in corrupt or fraudulent practices in competing for or in executing the contract

**Add the following as Clause 29.1.6:**

Honour his obligations in terms of Clauses 10.1.5.1.3, 11.4.1 and 12.2. sub Clauses 5, 6, 8, 9, 10, 11, 12, 13, 15, 16, 19, 20, 22.

**Replace Clause 29.7 with the following:**

The employer, on notice to the contractor, may recover damages from the contractor from the date of termination including, but not limited to, additional costs incurred in the completion, consultant cost, rental of alternative accommodation, invitation of completion tenders, salaries of officials and safeguarding the site, of the remaining work [25.3.7; 27.1.3]

**Replace Clause 29.9 with the following:**

The employer has the right of recovery against the contractor, where applicable, [CD] from:

The guarantee for construction (variable) until the final payment has been made;

or

The guarantee for construction (fixed) until the date of practical completion;

or

The payment reduction until the final payment is made;

or

The cash deposit made as security until the final payment is made

29.14.1 No Clause

29.14.3 No Clause

29.14.4 No Clause

29.14.5 No Clause

29.14.6 No Clause

29.14.7 No Clause

29.15 No Clause

29.16 No Clause

29.17.3 No Clause

29.17.6 No Clause

29.21.5 No Clause

29.22 No Clause

29.23 No Clause

29.25.3 No Clause

29.25.4 No Clause

29.27 No Clause

F:.....

V:.....

T:.....

Item

**DISPUTE RESOLUTION**

A30.0

**DISPUTE RESOLUTION**

Clause 30.0

**Replace Clause 30.2 with the following:**

Where such disagreement is not resolved within ten (10) working days of receipt of such notice it shall be deemed to be a dispute and shall be submitted to Mediation as a first method of dispute resolution failing which the parties will resort to Litigation

**30.3 to 30.7.7 No Clauses**

**Replace Clause 30.8 with the following:**

The parties may, by agreement and at any time before Litigation, refer a dispute to mediation, in which event:

**30.8.1 No Clause**

**Replace Clause 30.8.2 with the following:**

The appointment of a mediator, the procedure, and the status of the outcome shall be agreed between the parties

**Replace Clause 30.8.3 with the following:**

Regardless of the outcome of a mediation the parties shall bear their own costs concerning the Mediation and equally share the costs of the mediator and related expenses

**Replace Clause 30.9 with the following:**

Institution of Litigation shall be commenced and process served within three (3) year from the date of existence of the dispute, failing which the dispute shall lapse

30.10 No Clause

30.12 No Clause

F:.....

V:.....

T:.....

Item

**SECTION B: GENERAL PRELIMINARIES****B1.0 DEFINITIONS AND INTERPRETATION****B1.1 Definitions**

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

**B1.2 Interpretation**

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

**B2.0 DOCUMENTS****B2.1 Checking of documents**

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

**B2.2 Provisional bills of quantities**

F:.....  
Item V:..... T:..... N/A

**B2.3 Availability of construction information**

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

**B2.4 Ordering of materials and goods**

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

**B3.0 PREVIOUS WORK AND ADJOINING PROPERTIES****B3.1 Previous work - dimensional accuracy**

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

**B3.2 Previous work - defects**

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

**B3.3 Inspection of adjoining properties**

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

**B4.0 THE SITE****B4.1 Handover of site in stages**

F:.....  
Item V:..... T:..... N/A

**B4.2 Enclosure of the works**

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

**SECTION 1: PRELIMINARIES (SECTION B)****Each Item Carried to Collection**



|      |   |         |         |     |
|------|---|---------|---------|-----|
|      | Item  |         |         |     |
| B4.3 | <b>Geotechnical and other investigations</b>                  |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B4.4 | <b>Encroachments</b>  |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B4.5 | <b>Existing premises occupied</b>                             |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... | N/A |
| B4.6 | <b>Services - known</b>                                       |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B5.0 | <b>MANAGEMENT OF CONTRACT</b>                                 |         |         |     |
| B5.1 | <b>Management of the works</b>                                |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B5.2 | <b>Progress meetings</b>                                      |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B5.3 | <b>Technical meetings</b>                                     |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B6.0 | <b>SAMPLES, SHOP DRAWINGS AND MANUFACTURER'S INSTRUCTIONS</b> |         |         |     |
| B6.1 | <b>Samples of materials</b>                                   |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B6.2 | <b>Workmanship samples</b>                                    |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B6.3 | <b>Shop drawings</b>  |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B6.4 | <b>Compliance with manufacturer's instructions</b>            |         |         |     |
|      | F:.....<br>Item   | V:..... | T:..... |     |
| B7.0 | <b>DEPOSITS AND FEES</b>                                      |         |         |     |

**SECTION 1: PRELIMINARIES (SECTION B)****Each Item Carried to Collection**

B7.1 **Deposits and fees**

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

B8.0 **TEMPORARY SERVICES**

B8.1 **Water**

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

B8.2 **Electricity**

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

B8.3 **Ablution and welfare facilities**

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

B8.4 **Communication facilities**

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

B9.0 **PRIME COST AMOUNTS**

B9.1 **Responsibility for prime cost amounts**

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

B10.0 **ATTENDANCE ON SUBCONTRACTORS**

B10.1 **General attendance**

The **contractor** shall at his own expense provide the following general attendance on the **subcontractors**:

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

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

The provision of an area for the **subcontractor** to establish temporary office accommodation and workshops and for the storage of plant and materials

The use of erected scaffolding belonging to the **contractor**, in common with others having the like right, while it remains erected on the **site**

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

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

**SECTION 1: PRELIMINARIES (SECTION B)**

**Each Item Carried to Collection**

B10.2 **Special attendance**

F:.....  
Item

V:.....

T:.....

B11.0 **GENERAL**B11.1 **Protection of the works**

F:.....  
Item

V:.....

T:.....

B11.2 **Protection/isolation of existing works and works occupied in sections**

F:.....  
Item

V:.....

T:.....

B11.3 **Security of the works**

F:.....  
Item

V:.....

T:.....

B11.4 **Notice before covering work**

F:.....  
Item

V:.....

T:.....

B11.5 **Disturbance**

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**

F:.....  
Item

V:.....

T:.....

B11.6 **Environmental disturbance**

F:.....  
Item

V:.....

T:.....

B11.7 **Works cleaning and clearing**

F:.....  
Item

V:.....

T:.....

B11.8 **Vermin**

F:.....  
Item

V:.....

T:.....

B11.9 **Overhand work**

F:.....  
Item

V:.....

T:.....

B11.10 **Tenant installations**

F:.....  
Item

V:.....

T:.....

**SECTION 1: PRELIMINARIES (SECTION B)****Each Item Carried to Collection**

Item

R

c

B11.11 Advertising

F:.....  
Item

V:.....

T:.....

**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

**C1.0 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 understood by the tenderer he shall, before submitting his tender, obtain clarification in writing from the **principal agent**

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

**C2.0 PREAMBLES**

The document "Construction Works: Specifications: General Specification (PW371-A) Edition 2.1" 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

The document "Construction Works: Specifications: Particular Specification (PW371-B) Edition 2.2" is issued together with the drawings and shall be read in conjunction with the drawings and the **bills of quantities** / lump sum document

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

**C3.0 TRADE NAMES**

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

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

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

**C4.0 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)

F:..... V:..... T:.....  
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**SECTION 1: PRELIMINARIES (SECTION C)  
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C5.0 **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

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

C6.0 **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

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

C7.0 **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

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

C8.0 **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**

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

C9.0 **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

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

C10.0 **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** / lump sum document. Provision for pricing of HIV/AIDS awareness is made under items C10.1 to C10.5 hereafter and it is explicitly pointed out that all

**SECTION 1: PRELIMINARIES (SECTION C)  
Collection**

**Each Item Carried to**

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 25.0 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

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

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

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

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

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

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

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

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

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

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

**SECTION 1: PRELIMINARIES (SECTION C)  
Collection**

**Each Item Carried to**

C11.0 OCCUPATIONAL HEALTH AND SAFETY ACT

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

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

The contractor must take note that compliance with the Occupational Health and Safety Act, Construction Regulations and Health and Safety Specification is compulsory. In the event of partial or total non-compliance, the principal agent, notwithstanding the provisions of Clause A25.0 of Section A or any other clause to the contrary, reserves the right to delay issuing any progress payment certificate until the contractor provides satisfactory proof of compliance. The contractor shall not be entitled to any compensation of whatsoever nature, including interest, due to such delay of payment

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

Note also all the requirements to obtain a construction work permit to perform construction work as stipulated in Section 3.

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Item

C12.0 EMPLOYMENT AND TRAINING OF YOUTH WORKERS ON THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)

The contractor shall comply with all the requirements as set out in the "Additional Specification SL: Employment and Training of Youth Workers on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS)" as attached to these bills of quantities / lump sum document

The contractor shall identify a minimum number of youth workers from a priority list, and shall employ them at the statutory labour rates for a minimum period and train them, all as per the aforementioned specification and as elsewhere measured in these bills of quantities / lump sum document

The contractor shall liaise and co-ordinate with the employer and the EPWP Training Service Provider with regard to the priority list, the selection of youth workers, and the employment and training of the identified youth workers

The contractor shall avail the services of an adequately qualified foreman specifically for the EPWP-NYS youth workers, to act as their construction supervisor. The foreman will be responsible for continually monitoring the progress of the youth workers and for addressing questions and issues that may arise from the youth workers

Separate items which will be subject to remeasurement have been included elsewhere in these bills of quantities / lump sum document to cover the direct costs associated with the employment and training of the youth workers. Any additional requirements in respect of the aforementioned specification are deemed to be priced hereunder and no additional claims in this regard shall be entertained

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



C13.0 **IMPLEMENTATION OF LABOUR-INTENSIVE INFRASTRUCTURE PROJECTS UNDER THE EXPANDED PUBLIC WORKS PROGRAMME (EPWP)**

The **contractor** shall comply with all the requirements of the “Code of Good Practice for Employment and Conditions of Work for Special Public Works Programmes” issued in terms of the “Basic Conditions of Employment Act, 1997 (Act No 75 of 1997)” and the related “Ministerial Determination”, for the employment of locally employed temporary workers on a labour-intensive infrastructure project under the Expanded Public Works Programme (EPWP)

The **contractor** shall maintain daily records with regard to the workers employed and shall, on a monthly basis, submit a report to the **principal agent** in the prescribed format. Compulsory indicators such as the project budget, actual project expenditure, number of job opportunities created, demographic characteristics of workers employed, minimum daily wage rate, number of person-days of employment created and number of training person-days, shall be included in said report, all as defined in the “Guidelines for the Implementation of Labour-Intensive Infrastructure Projects under the Expanded Public Works Programme (EPWP)”

Provision for pricing of compliance with the aforementioned is made under this clause and it is explicitly pointed out that all requirements in respect of the aforementioned are deemed to be priced hereunder and no additional claims in this regard shall be entertained

Provision to employ a site agent with Foremen/ Supervisors at NQF level 4 “National Certificate: Supervision of Civil Engineering Construction Processes” or equivalent QCTO qualifications for the duration of executing labour-intensive works.

Provision to employ a site agent with Site Agent/ Manager at NQF level 5 "Manage Labour-Intensive Construction Processes" or equivalent QCTO qualifications for the duration of executing labour-intensive works.

F:.....

V:.....

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Item

**SECTION 1  
PRELIMINARIES  
COLLECTION**

**AMOUNT**

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|                   |  |  |
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# **SECTION 2**

# **BUILDING WORK**

**NOTE :** Tenderers are advised to study the “Model PREAMBLES for Trades” and the 'Construction works : Specifications' (PW 371-A Edition 2.1 July 2014 and PW 371-B, Edition 2.2, Dec 2015) before pricing these bills

| Item No | LI  | Quantity | Rate  | Amount |
|---------|---|----------|-------|--------|
|         | <p><b><u>SECTION NO. 2</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>FOUNDATIONS (PROVISIONAL)</u></b></p> <p><b><u>EARTHWORKS</u></b></p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 104 for JBCC CPAP purposes</p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b><u>Nature of ground</u></b></p> <p>A soil investigation has been carried out on site by the engineer and the report is attached to these documents. Descriptions of excavations shall be deemed to include all ground conditions classifiable as "earth" described in the above report and where conditions of a more difficult character are indicated these are separately measured</p> <p><b><u>Carting away of excavated material</u></b></p> <p>Descriptions of carting away of excavated material shall be deemed to include loading excavated material onto trucks directly from the excavations or, alternatively, from stock piles situated on the building site</p> <hr/> <p><b><u>BULK EXCAVATION, FILLING, ETC</u></b></p> <p><b><u>EXCAVATIONS ETC</u></b></p> <p><b><u>Excavation in earth for</u></b></p> |          |       |        |
| 1       | Basement not exceeding 2m deep  | m3       | 1,888 |        |
| 2       | Basement exceeding 2m and not exceeding 4m deep   | m3       | 818   |        |
|         | <b>Carried to Collection</b>  |          |       | R      |
|         | <p>Section No. 2<br/>           BUILDING WORK<br/>           Bill No. 1<br/>           FOUNDATIONS (PROVISIONAL)<br/> <b>Keimoes Magistrate's office</b></p>  |          |       |        |

|    |   |    |       |   |
|----|---|----|-------|---|
|    | <b><u>Excavation in earth within basement (basement level exceeding 2m and not exceeding 4m deep below ground level) to</u></b>                     |    |       |   |
| 3  | Reduce levels to final levels under floors etc. not exceeding 2m deep   | m3 | 8     |   |
|    | <b><u>Extra over bulk excavations in earth for excavation in</u></b>  |    |       |   |
| 4  | Soft rock   | m3 | 1,353 |   |
| 5  | Hard rock   | m3 | 541   |   |
|    | <b><u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density</u></b> |    |       |   |
| 6  | Exceeding 1,5m and not exceeding 3,0m deep for placing and removing formwork to walls etc, 300mm away from excavated face                           | m2 | 126   |   |
| 7  | Exceeding 3,0m and not exceeding 4,5m deep for placing and removing formwork to walls etc, 300mm away from excavated face                           | m2 | 254   |   |
|    | <b><u>Extra over back excavation in earth for working space for excavation in soft rock</u></b>   |    |       |   |
| 8  | Exceeding 1,5m and not exceeding 3m deep for placing and removing formwork to walls etc, 300mm away from excavated face                             | m2 | 63    |   |
| 9  | Exceeding 3m and not exceeding 4,5m deep approximately 300m away from face of building  | m2 | 127   |   |
|    | <b><u>Extra over back excavation in earth for working space for excavation in hard rock</u></b>   |    |       |   |
| 10 | Exceeding 1,5m and not exceeding 3m deep for placing and removing formwork to walls etc 300mm away from excavated face                              | m2 | 13    |   |
| 11 | Exceeding 3m and not exceeding 4,5m deep approximately 300mm away from face of building   | m2 | 25    |   |
|    | <b>Carried to Collection</b>  |    |       |   |
|    | Section No. 2<br>BUILDING WORK<br>Bill No. 1<br>FOUNDATIONS (PROVISIONAL)<br><b>Keimoes Magistrate's office</b>                                     |    |       | R |



|    |    |   |     |       |
|----|----|---|-----|-------|
|    |    | <b><u>Risk of collapse of excavations</u></b>   |     |       |
| 12 |    | Sides of bulk excavations exceeding 1,5m deep   | m2  | 380   |
|    |    | <b><u>Extra over all excavations for carting away</u></b>   |     |       |
| 13 |    | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor          | m3  | 2,122 |
|    |    | <b><u>De-watering of seepage water and water from other subterranean sources in excavations</u></b>                     |     |       |
| 14 |    | Provide pump with minimum 1000litre/hour capacity at 3m head, including maintenance and removal                         | No  | 1     |
| 15 |    | Provide necessary hoses for the above, including couplings etc  | m   | 30    |
| 16 |    | Allow for pumping (one pump)  | Hrs | 20.00 |
|    |    | <b><u>FILLING ETC</u></b>   |     |       |
| 17 |    | Selected layer of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density in 150mm thick layers | m3  | 123   |
|    |    | <b><u>EXCAVATION, FILLING, ETC OTHER THAN BULK</u></b>  |     |       |
|    |    | <b><u>Excavation in earth not exceeding 2m deep</u></b>   |     |       |
| 18 | LI | Trenches for strip footings   | m3  | 169   |
| 19 | LI | Column footings   | m3  | 59    |
|    |    | <b><u>Excavation in backfilling compacted to 98% Mod AASHTO and not exceeding 2m deep</u></b>                           |     |       |
| 20 | LI | Trenches  | m3  | 41    |
|    |    | <b><u>Extra over trench excavation in earth for excavation in</u></b>   |     |       |
| 21 |    | Soft rock   | m3  | 134   |

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|    |    |   |      |     |
|----|----|---|------|-----|
| 22 |    | Hard rock   | m3   | 74  |
|    |    | <b><u>Back excavation of vertical sides of excavations in earth for working space including backfilling compacted to 98% Mod AASHTO density</u></b> |      |     |
| 23 | LI | Exceeding 0,5m and not exceeding 1,5m deep for placing and removing formwork to ground beams, walls, etc, 240mm away from excavated face            | m2   | 62  |
|    |    | <b><u>Extra over back excavation in earth for working space for excavation in soft rock</u></b>   |      |     |
| 24 |    | Exceeding 0,5m and not exceeding 1,5m deep for placing and removing formwork to walls etc, 240mm away from excavated face                           | m2   | 31  |
|    |    | <b><u>Extra over back excavation in earth for working space for excavation in hard rock</u></b>   |      |     |
| 25 |    | Exceeding 0,5m and not exceeding 1,5m deep for placing and removing formwork to walls etc, 240mm away from excavated face                           | m2   | 15  |
|    |    | <b><u>Extra over all excavations for carting away</u></b>   |      |     |
| 26 |    | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor                                      | m3   | 205 |
|    |    | <b><u>Risk of collapse of excavations</u></b>   |      |     |
| 27 |    | Sides of trench and hole excavations not exceeding 1,5m deep  | m2   | 514 |
|    |    | <b><u>Keeping excavations free of water</u></b>   |      |     |
| 28 |    | Keeping excavations free of all water other than subterranean water   | Item | 1   |

**FILLING ETC**

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|----|----|--|----|-----|---|
|    |    | <b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u></b>   |    |     |   |
| 29 | LI | Over site to make up levels  | m3 | 49  |   |
|    |    | <b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site, compacted to 95% Mod AASHTO density</u></b>   |    |     |   |
| 30 |    | Backfilling to trenches, holes, etc  | m3 | 113 |   |
|    |    | <b><u>Earth filling (MinCBR at 93% Mod AASHTO = 25; Max PI = 10) from the excavations/prescribed stockpiles compacted to 98% Mod AASHTO density</u></b>  |    |     |   |
| 31 |    | Under floors, steps, benches, pavings, etc   | m3 | 3   |   |
|    |    | <b><u>Earth filling of selected G5 material supplied by the contractor and done in 150mm layers compacted to 98% Mod AASHTO density</u></b>  |    |     |   |
| 32 |    | Under floors, steps, pavings, etc  | m3 | 326 |   |
|    |    | <b><u>Sand filling</u></b>   |    |     |   |
| 33 |    | 50mm thick dry, clean, washed course riversand layer supplied by contractor and evenly spread under floors   | m2 | 835 |   |
|    |    | <b><u>Compaction of surfaces</u></b>   |    |     |   |
| 34 |    | Finally trim and re-compact basement platform to correct levels after excavations of bases, footings, etc. to 98% of modified AASHTO maximum density, to receive final filling layer (elsewhere) | m2 | 819 |   |
|    |    | <b><u>Prescribed density tests on filling</u></b>  |    |     |   |
| 35 |    | "Modified AASHTO Density" test   | No | 15  |   |
| 36 |    | "Natural California Bearing Ratio" test  | No | 5   |   |
| 37 |    | "Field Density" test including "Optimum Moisture Content" (four readings per test)   | No | 5   |   |
|    |    | <b>Carried to Collection</b>   |    |     |   |
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**PROTECTION AGAINST TERMITES**

**Soil insecticide**

|    |  |   |    |       |
|----|--|---|----|-------|
| 38 |  | Under floors etc including forming and poisoning shallow furrows against foundation walls etc, filling in furrows and ramming | m2 | 1,140 |
| 39 |  | To bottoms and sides of trenches etc  | m2 | 1,023 |

**CONCRETE (WG 111)**

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

**20MPa/19mm concrete**

|    |    |   |    |    |
|----|----|---|----|----|
| 40 | LI | Surface blinding under footings and bases | m3 | 30 |
|----|----|---|----|----|

**25MPa/19mm concrete**

|    |    |                |    |   |
|----|----|----------------|----|---|
| 41 | LI | Strip footings | m3 | 5 |
|----|----|----------------|----|---|

**REINFORCED CONCRETE**

**25MPa/19mm concrete**

|    |  |                                 |    |   |
|----|--|---------------------------------|----|---|
| 42 |  | Kerbs                           | m3 | 1 |
| 43 |  | Filling in cavity of brick wall | m3 | 2 |

**30MPa/19mm concrete**

|    |  |                                       |    |    |
|----|--|---------------------------------------|----|----|
| 44 |  | Strip footings                        | m3 | 50 |
| 45 |  | Foundation beams                      | m3 | 17 |
| 46 |  | Column bases                          | m3 | 9  |
| 47 |  | Column base thickening of surface bed | m3 | 48 |
| 48 |  | Bases for retaining wall              | m3 | 97 |
| 49 |  | Columns                               | m3 | 6  |
| 50 |  | Bottoms and sides of floor ducts      | m3 | 1  |

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|  |  |    |     |   |
|--|--|----|-----|---|
| 51   | <p><b><u>TEST BLOCKS</u></b></p> <p>Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes</p> | No | 12  |   |
| <p><b><u>FORMWORK (WG 111)</u></b></p>   |  |    |     |   |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>   |  |    |     |   |
| <p><b><u>Formwork</u></b></p> <p>Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavations, provision for which is made in "Earthworks"</p> |  |    |     |   |
| <p><b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b></p>  |  |    |     |   |
| <p><b><u>Rough formwork to sides</u></b></p>   |  |    |     |   |
| 52   | Strip footings   | m2 | 127 |   |
| 53   | Foundation beams   | m2 | 62  |   |
| 54   | One face of catch pit walls (other face against excavated surfaces)  | m2 | 3   |   |
| 55   | Column bases   | m2 | 102 |   |
| 56   | Retaining wall bases   | m2 | 128 |   |
| 57   | Square columns   | m2 | 15  |   |
| 58   | Rectangular columns  | m2 | 90  |   |
| 59   | Edges, risers, ends and reveals not exceeding 300mm high or wide   | m  | 8   |   |
| <p><b>Carried to Collection</b></p>  |  |    |     |   |
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|   |  |    |       |
|---|--|----|-------|
| 60  | Edges, risers, ends and reveals not exceeding 300mm high or wide circular to exceeding 1m radius | m  | 54    |
| <b><u>MOVEMENT JOINTS ETC</u></b>   |  |    |       |
| <b><u>Expansion joints with 12mm polystyrene between concrete and brickwork surfaces</u></b>  |  |    |       |
| 61  | Joints exceeding 300mm high or wide  | m2 | 1     |
| 62  | Joints not exceeding 300mm high or wide  | m  | 69    |
| <b><u>Expansion joints with 10mm soft board or equal and approved between vertical concrete or brickwork surfaces including sealing with polysulshide sealant with bond breaker between sealant</u></b> |  |    |       |
| 63  | Joints not exceeding 300mm high  | m  | 36    |
| <b><u>REINFORCEMENT (WG 114)</u></b>  |  |    |       |
| <b><u>Mild steel reinforcement to structural concrete work</u></b>  |  |    |       |
| 64  | 8mm Diameter bars  | t  | 2.00  |
| 65  | 10mm Diameter bars   | t  | 0.12  |
| 66  | 12mm Diameter bars   | t  | 0.40  |
| <b><u>High tensile steel reinforcement to structural concrete work</u></b>  |  |    |       |
| 67  | 10mm Diameter bars   | t  | 4.00  |
| 68  | 12mm Diameter bars   | t  | 8.00  |
| 69  | 16mm Diameter bars   | t  | 10.10 |
| 70  | 20mm Diameter bars   | t  | 2.40  |
| <b><u>MASONRY (WG 116)</u></b>  |  |    |       |
| <b><u>BRICKWORK</u></b>   |  |    |       |
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|    |    |  |    |       |
|----|----|--|----|-------|
|    |    | <b><u>Brickwork of NFX bricks in class II mortar</u></b>   |    |       |
| 71 | LI | Half brick walls   | m2 | 13    |
| 72 | LI | Half brick linings to concrete columns   | m2 | 19    |
| 73 | LI | One brick walls  | m2 | 234   |
| 74 | LI | 500mm Hollow walls of two half brick skins including wire ties   | m2 | 6     |
| 75 | LI | One brick wide x one brick projecting pilasters  | m  | 10    |
|    |    | <b><u>Brickwork of NFPE bricks (14 MPa nominal compressive strength) in class II mortar in loadbearing walls etc</u></b> |    |       |
| 76 |    | One brick piers under foundations  | m2 | 29    |
|    |    | <b><u>BRICKWORK SUNDRIES</u></b>   |    |       |
|    |    | <b><u>Joint forming material in movement joints</u></b>  |    |       |
| 77 |    | 12mm Bitumen impregnated fibre board built in vertically between brick skins   | m2 | 1     |
|    |    | <b><u>Brickwork reinforcement</u></b>  |    |       |
| 78 |    | 75mm Wide reinforcement built in horizontally  | m  | 146   |
| 79 |    | 150mm Wide reinforcement built in horizontally   | m  | 2,751 |
|    |    | <b><u>Galvanised hoop iron cramps, ties, etc</u></b>   |    |       |
| 80 |    | 30mm Wide x 1,6mm thick wall tie, 500mm long, with one end shot pinned to concrete and other end built into brickwork    | No | 99    |
|    |    | <b><u>FACE BRICKWORK</u></b>   |    |       |
|    |    | <b><u>Corobrik Roan Satin FBX external face bricks pointed with recessed horizontal and vertical joints</u></b>          |    |       |
| 81 |    | Extra over brickwork for face brickwork  | m2 | 194   |
|    |    | <b><u>WATERPROOFING (WG 120)</u></b>   |    |       |
|    |    | <b>Carried to Collection</b>   |    |       |
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|    |   |    |     |
|----|---|----|-----|
| 82 | <b><u>Primer and two coats heavy duty bitumen emulsion waterproof coating</u></b>   | m2 | 380 |
|    | On concrete walls and columns in foundations (Provisional)  |    |     |
|    | <b><u>JOINT SEALANTS ETC</u></b>  |    |     |
| 83 | <b><u>Polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>   | m  | 47  |
|    | 12 x 15mm In vertical expansion joints  |    |     |
|    | <b><u>PLASTERING (WG 142)</u></b>   |    |     |
| 84 | <b><u>One layer 5:1 steel floated cement plaster on brickwork (small areas on concrete)</u></b>   | m2 | 19  |
|    | On external walls   |    |     |
| 85 | On brick columns, piers, etc.   | m2 | 10  |
| 86 | <b><u>One layer 3:1 wood floated cement plaster on concrete</u></b>   | m2 | 24  |
|    | On walls  |    |     |
|    | <b><u>PAINTWORK (WG 152)</u></b>  |    |     |
| 87 | <b><u>One coat alkali resistant primer, one universal undercoat and two coats extremely durable UV-resistant waterbased coating with a fine texture</u></b> | m2 | 53  |
|    | On external walls   |    |     |

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

Slabs and beams to remain propped for periods strictly in accordance with SABS 1200 G Clause 5.2.5

**CONCRETE (WG 110)**

**UNREINFORCED CONCRETE**

**20Mpa/20mm concrete**

|   |    |                         |    |     |
|---|----|-------------------------|----|-----|
| 1 | LI | Slabs, cover slabs, etc | m3 | 0.5 |
| 2 | LI | Cell benches            | m3 | 1   |

**REINFORCED CONCRETE**

**25MPa/19mm mesh reinforced concrete**

|   |    |  |    |   |
|---|----|--|----|---|
| 3 | LI | Vanity slabs, cupboard slabs, cover slabs, etc | m3 | 1 |
| 4 |    | Surface beds cast in panels on waterproofing   | m3 | 4 |
| 5 |    | Ramps  | m3 | 2 |

**25MPa/20mm concrete**

|   |  |  |    |    |
|---|--|--|----|----|
| 6 |  | Steps  | m3 | 5  |
| 7 |  | Walls  | m3 | 27 |
| 8 |  | Filling in cavity of brick walls and columns | m3 | 2  |

**30MPa/19mm mesh reinforced concrete**

|    |  |   |    |     |
|----|--|---|----|-----|
| 9  |  | Surface beds cast in panels on waterproofing  | m3 | 132 |
| 10 |  | Ramps   | m3 | 16  |
| 11 |  | Rainwater canal 568mm wide x 350mm thick with 222 x 240mm deep square channel including formwork, etc | m  | 5   |

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|    |  |    |     |
|----|--|----|-----|
|    | <b><u>30MPa/19mm concrete</u></b>  |    |     |
| 12 | Surface beds cast in panels on waterproofing   | m3 | 26  |
| 13 | Slabs including beams and inverted beams   | m3 | 503 |
| 14 | Steps  | m3 | 4   |
| 15 | Ramps  | m3 | 4   |
| 16 | Walls  | m3 | 13  |
| 17 | Retaining walls  | m3 | 135 |
| 18 | Plinths  | m3 | 5   |
| 19 | Stairs including landings, beams and inverted beams                                      | m3 | 26  |
| 20 | Isolated beams   | m3 | 62  |
| 21 | Columns  | m3 | 77  |
|    | <b><u>TEST BLOCKS</u></b>  |    |     |
| 22 | Making and testing a set of three 150 x 150 x 150mm concrete strength test cubes         | No | 42  |
|    | <b><u>CONCRETE SUNDRIES</u></b>  |    |     |
|    | <b><u>Finishing top surfaces of concrete with a steel trowel to slip free finish</u></b> |    |     |
| 23 | LI Ramps   | m2 | 135 |
|    | <b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>                |    |     |
| 24 | LI Slabs, surface beds, etc  | m2 | 3   |
|    | <b><u>Finishing top surfaces of concrete smooth with a power float</u></b>               |    |     |
| 25 | Surface beds, slabs, etc   | m2 | 819 |

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| <b><u>Grooves, channels, mortices, sinkings, etc in concrete</u></b> |   |    |     |
|--|---|----|-----|
| 26   | 50 x 50mm Rebates in top  | m  | 12  |
| 27   | Mortice 100 x 100mm, in top, side, etc not exceeding 150mm deep                           | No | 15  |
| <b><u>FORMWORK (WG 111)</u></b>                                      |   |    |     |
| <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                 |   |    |     |
| <b><u>Rough formwork to sides of</u></b>                             |   |    |     |
| 28   | Walls   | m2 | 156 |
| 29   | Walls with total height exceeding 3,5m and not exceeding 5m above bearing level           | m2 | 153 |
| 30   | Retaining walls   | m2 | 115 |
| 31   | Retaining walls with total height exceeding 3,5m and not exceeding 5m above bearing level | m2 | 461 |
| 32   | Outer face of walls flush with perimeter of concrete structure                            | m2 | 53  |
| 33   | Rectangular columns exceeding 1,5 and not exceeding 3,5m above bearing level              | m2 | 234 |
| 34   | Rectangular columns exceeding 3,5 and not exceeding 5m above bearing level                | m2 | 500 |
| 35   | Inverted beams  | m2 | 111 |
| 36   | Inverted beams above concrete   | m2 | 83  |
| 37   | Edges, risers, ends and reveals not exceeding 300mm high or wide                          | m  | 544 |
| 38   | Sloping and stepped outer edges of stairs not exceeding 400mm high extreme                | m  | 99  |

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| <b><u>Rough formwork to soffits</u></b>                |   |    |       |
|--|---|----|-------|
| 39   | Slabs exceeding 1,5 and not exceeding 3,5m above bearing level  | m2 | 1,139 |
| 40   | Slabs propped up exceeding 3,5 and not exceeding 5m above bearing level   | m2 | 29    |
| 41   | Slabs propped up exceeding 5 and not exceeding 6,5m high  | m2 | 39    |
| 42   | Slabs propped up exceeding 6.5m and not exceeding 8m high   | m2 | 51    |
| 43   | Landings  | m2 | 28    |
| 44   | Stairs with sloping soffits   | m2 | 61    |
| <b><u>Rough formwork to sides and soffits</u></b>      |   |    |       |
| 45   | Beams propped up exceeding 1,5 and not exceeding 3,5m above bearing level   | m2 | 576   |
| 46   | Beams propped up exceeding 3,5 and not exceeding 5m above bearing level   | m2 | 400   |
| 47   | Isolated beams propped up exceeding 1,5 and not exceeding 3,5m above bearing level                                      | m2 | 390   |
| 48   | Isolated beams propped up exceeding 3,5m and not exceeding 5m high  | m2 | 134   |
| <b><u>Rough formwork to form openings in slabs</u></b> |   |    |       |
| 49   | Oval opening exceeding 1m and not exceeding 2m girth through 85mm slab  | No | 18    |
| 50   | Form square shaped opening, not exceeding 2 metres in wall not exceeding 250mm thick                                    | No | 6     |
| 51   | Form rectangular shaped opening, exceeding 4 metres and not exceeding 5 metres girth, in wall not exceeding 250mm thick | No | 4     |

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

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|----|--|----|-----|
|    | <b><u>Smooth formwork to sides of</u></b>  |    |     |
| 52 | Walls not exceeding 3,5 meter above bearing level  | m2 | 188 |
| 53 | Retaining walls with total height exceeding 3,5m and not exceeding 5m above bearing level  | m2 | 452 |
| 54 | Rectangular columns exceeding 1,5 and not exceeding 3,5m above bearing level   | m2 | 183 |
| 55 | Rectangular columns exceeding 3,5 and not exceeding 5m above bearing level   | m2 | 22  |
| 56 | Plints   | m2 | 39  |
| 57 | Edges, risers, ends and reveals not exceeding 300mm high or wide   | m  | 99  |
|    | <b><u>Smooth formwork to soffits</u></b>   |    |     |
| 58 | Slabs propped up not exceeding 1,5m high   | m2 | 12  |
| 59 | Slabs exceeding 1,5 and not exceeding 3,5m above bearing level   | m2 | 420 |
| 60 | Slabs propped up exceeding 3,5 and not exceeding 5m above bearing level  | m2 | 412 |
|    | <b><u>Boxing in smooth formwork to form</u></b>  |    |     |
| 61 | 20 x 20mm Chamfer  | m  | 682 |
|    | <b><u>PERMANENT FORMWORK</u></b>   |    |     |
|    | <b><u>1mm thick galvanised ZS275 spelter commercial quality troughed interlocking permanent formwork with 50mm deep x 270mm wide troughs</u></b> |    |     |
| 62 | Permanent formwork to sides of walls, etc not exceeding 1,5m high above bearing level  | m2 | 7   |
| 63 | Permanent formwork to soffit of slabs propped up not exceeding 1,5m high above bearing level   | m2 | 155 |

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|    |   |    |       |
|----|---|----|-------|
| 64 | Permanent formwork to sloping soffit of stairs or ramps   | m2 | 46    |
|    | <b><u>MOVEMENT JOINTS ETC</u></b>   |    |       |
|    | <b><u>Slip joints formed of two layers of 275micron dampproof course between concrete and brickwork surfaces</u></b>  |    |       |
| 65 | Joints exceeding 300mm wide   | m2 | 94    |
| 66 | Joints not exceeding 300mm wide   | m  | 1,020 |
|    | <b><u>Slip joints formed of two layers of smooth tempered hardboard between concrete and brickwork surfaces</u></b>   |    |       |
| 67 | Joints not exceeding 300mm wide   | m  | 85    |
|    | <b><u>Expansion joints with 10mm Jointex or bitumen impregnated softboard between vertical concrete or brickwork surfaces</u></b>   |    |       |
| 68 | Joints not exceeding 300mm high   | m  | 1,495 |
|    | <b><u>Expansion joints with 16mm soft board between vertical concrete or brickwork surfaces including sealing with polysulshide sealant with bond breaker between sealant flecell</u></b> |    |       |
| 69 | Joints not exceeding 300mm high   | m  | 22    |
|    | <b><u>Saw cut joints</u></b>  |    |       |
| 70 | 30 x 3mm Saw cut joints in top of concrete  | m  | 308   |
|    | <b><u>REINFORCEMENT</u></b>   |    |       |
|    | <b><u>Mild steel reinforcement to structural concrete work</u></b>  |    |       |
| 71 | 8mm Diameter bars   | t  | 0.50  |
| 72 | 10mm Diameter bars  | t  | 2.20  |

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| <b><u>High tensile steel reinforcement to structural concrete work</u></b> |  |    |       |
|--|--|----|-------|
| 73   | 10mm Diameter bars   | t  | 15.25 |
| 74   | 12mm Diameter bars   | t  | 1.63  |
| 75   | 16mm Diameter bars   | t  | 33.27 |
| 76   | 20mm Diameter bars   | t  | 35.52 |
| 77   | 25mm Diameter bars   | t  | 7.08  |
| 78   | 32mm Diameter bars   | t  | 11.11 |
| <b><u>Fabric reinforcement</u></b>   |  |    |       |
| 79   | Type 193 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 321   |
| 80   | Type 617 fabric reinforcement in concrete surface beds, slabs, etc | m2 | 933   |

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Section No. 2  
 BUILDING WORK  
 Bill No. 2  
 CONCRETE, FORMWORK AND REINFORCEME  
**Keimoes Magistrate's office**

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Section No. 2

BUILDING WORK

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEMENT (PROVISIONAL)

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BUILDING WORK

Bill No. 2

CONCRETE, FORMWORK AND REINFORCEME

**Keimoes Magistrate's office**

| Item No | <b><u>SECTION NO. 2</u></b>  | Quantity | Rate | Amount |
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|         | <b><u>BILL NO. 3</u></b>   |          |      |        |
|         | <b><u>PRECAST CONCRETE</u></b>   |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 112 for JBCC CPAP purposes   |          |      |        |
|         | <b><u>Supplementary preambles</u></b>  |          |      |        |
|         | Window surrounds shall be of 30mPa pre-cast cement concrete; the window surround finished smooth from the mould. Window surrounds shall be built into brickwork as the work proceeds, bedded and jointed in 4:1 cement mortar and pointed with ruled-in horizontal and vertical joints both sides. Window surrounds are to be checked at delivery for squareness. Surrounds out of square shall be rejected. |          |      |        |
|         | Pierced panels shall be of 30 MPa pre-cast cement concrete reinforced with galvanized wire; the panel finished smooth from the mould. The panels shall be fixed into the pre-cast concrete window surrounds with non-ascetic silicone sealant.<br>-----  |          |      |        |
|         | <b><u>Window surrounds fitted with and including pierced panels</u></b>  |          |      |        |
| 1       | Square window surround, 590 x 590 x 260mm, fitted with and including nine (9) hole pierced panel   | No       | 18   |        |
|         | <b>Carried Forward to Summary of Section No. 2</b>   |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 3<br>PRECAST CONCRETE<br><b>Keimoes Magistrate's office</b>   |          |      |        |



**Samples**

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

**SUPERSTRUCTURE**

**Brickwork of NFP bricks in 6:1 cement mortar**

|                                |    |   |    |       |
|--------------------------------|----|---|----|-------|
| 1                              | LI | Rectangular shaped piers  | m3 | 0.2   |
| 2                              | LI | Half brick walls  | m2 | 416   |
| 3                              | LI | Half brick walls in linings to concrete including wire ties                                 | m2 | 237   |
| 4                              | LI | Half brick walls in beamfilling   | m2 | 14    |
| 5                              | LI | One brick walls   | m2 | 2,861 |
| 6                              | LI | One brick gable walls   | m2 | 10    |
| 7                              | LI | One brick walls in beamfilling  | m2 | 108   |
| 8                              | LI | One brick walls against existing surfaces   | m2 | 42    |
| 9                              | LI | One brick walls of two half brick skins with mesh between skins (mesh elsewhere measured)   | m2 | 407   |
| 10                             | LI | One brick wide x half brick projecting pilasters  | m  | 237   |
| 11                             | LI | One brick wide x one brick projecting pilasters   | m  | 20    |
| <b><u>Hollow walls etc</u></b> |    |   |    |       |
| 12                             | LI | 376mm Wide hollow wall comprising of one half brick and one one-brick skin with 50mm cavity | m2 | 1     |
| 13                             | LI | 456mm Hollow walls of two half brick skins including wire ties                              | m2 | 8     |

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|    |    |  |    |       |
|----|----|--|----|-------|
|    |    | <b><u>Brickwork of NFX bricks in 3:1 cement mortar</u></b>                                 |    |       |
| 14 | LI | Half brick walls in lintels  | m2 | 13    |
| 15 | LI | Half brick walls in linings to concrete, in lintels  | m2 | 4     |
| 16 | LI | One brick walls in lintels   | m2 | 147   |
|    |    | <b><u>Brickwork of NFPE bricks in 3:1 cement mortar in loadbearing walls etc</u></b>       |    |       |
| 17 | LI | One brick walls (14 MPa nominal compressive strength)                                      | m2 | 170   |
| 18 | LI | One brick walls built with solid bricks (25MPa nominal compressive strength)               | m2 | 239   |
|    |    | <b><u>BRICKWORK SUNDRIES</u></b>   |    |       |
|    |    | <b><u>Closing cavities</u></b>   |    |       |
| 19 | LI | Closing 50mm cavity of hollow wall horizontally with two courses of brickwork              | m  | 1     |
| 20 | LI | Closing 234mm cavity of hollow wall horizontally with two courses of brickwork             | m  | 6     |
| 21 | LI | Closing 50mm cavity of hollow wall vertically with brickwork                               | m  | 1     |
| 22 | LI | Closing 234mm cavities of hollow walls vertically with brickwork half brick wide           | m  | 6     |
|    |    | <b><u>Joint forming material in movement joints</u></b>                                    |    |       |
| 23 |    | 12mm Bitumen impregnated fibre board built in vertically between brick skins (Provisional) | m2 | 19    |
|    |    | <b><u>Brickwork reinforcement</u></b>  |    |       |
| 24 |    | 6,3mm Diameter mild steel reinforcement  | t  | 0.153 |
| 25 |    | 75mm Wide reinforcement built in horizontally  | m  | 1,191 |
| 26 |    | 150mm Wide reinforcement built in horizontally   | m  | 5,368 |

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|----|---|----|-------|
| 27 | Type 289 fabric reinforcement, of 246mm x 123mm aperture, vertically between brick skins  | m2 | 407   |
|    | <b><u>Prestressed fabricated lintels</u></b>  |    |       |
| 28 | 110 x 75mm Lintels in lengths not exceeding 3m  | m  | 20    |
|    | <b><u>Turning pieces</u></b>  |    |       |
| 29 | 110mm Wide turning piece to lintels etc   | m  | 155   |
| 30 | 230mm Wide turning piece to lintels etc   | m  | 85    |
|    | <b><u>Galvanised wire ties etc</u></b>  |    |       |
| 31 | 4mm Diameter roof tie 2m girth bent double with one end fixed to timber and other end built into brickwork (Provisional)            | No | 137   |
|    | <b><u>Galvanized hoop iron cramps, ties, etc.</u></b>   |    |       |
| 32 | 32 x 1,2mm roof tie 1m girth with one end fixed to timber and other end built into brickwork or cast into concrete (Provisional)    | No | 110   |
| 33 | 30mm Wide x 1,6mm thick wall tie, 500mm long, with one end shot pinned to concrete and other end built into brickwork (Provisional) | No | 4,097 |
|    | <b><u>INTERNAL FACE BRICKWORK</u></b>   |    |       |
|    | <b><u>INTERNAL FACE BRICKWORK (COROBRICK ROAN SATIN)</u></b>  |    |       |
|    | <b><u>INTERNAL face bricks with FLUSH horizontal and vertical joints</u></b>  |    |       |
| 34 | Extra over brickwork for face brickwork in stretcher bond   | m2 | 720   |
| 35 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, flush joints on one face                   | m  | 11    |
| 36 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, flush joints on both faces                 | m  | 9     |

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|----|--|----|-------|---|
| 37 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, flush joints on one face and 110mm soffit       | m  | 42    |   |
|    | <b><u>Brick-on-edge header course copings, sills, etc of INTERNAL face bricks with FLUSH joints on all exposed faces</u></b>             |    |       |   |
| 38 | Coping to top of one brick wall  | m  | 1     |   |
| 39 | Coping to top of raking one brick wall   | m  | 5     |   |
| 40 | 110mm Wide sill set flat with face flush with face of adjacent face brick work   | m  | 44    |   |
|    | <b><u>INTERNAL face bricks pointed with RECESSED horizontal and vertical joints</u></b>  |    |       |   |
| 41 | Extra over brickwork for face brickwork in stretcher bond  | m2 | 1,147 |   |
| 42 | Extra over brickwork for 110mm wide brick-on-edge header course lintels one course high, pointed on one face                             | m  | 1     |   |
| 43 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on both faces                           | m  | 3     |   |
| 44 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on one face and 110mm soffit            | m  | 7     |   |
| 45 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on both faces and 220mm soffit          | m  | 8     |   |
|    | <b><u>Brick-on-edge header course copings, sills, etc of INTERNAL face bricks, pointed with RECESSED joints on all exposed faces</u></b> |    |       |   |
| 46 | Coping to top of one brick wall  | m  | 22    |   |
| 47 | Coping to top of raking one brick wall   | m  | 7     |   |
| 48 | 110mm Wide sill set flat with face flush with face of adjacent face brickwork  | m  | 3     |   |
|    | <b>Carried to Collection</b>   |    |       |   |
|    | Section No. 2<br>BUILDING WORK<br>Bill No. 4<br>MASONRY<br>Keimoes Magistrate's office   |    |       | R |



|  |   |    |       |
|--|---|----|-------|
| 49   | 220mm Wide sill set flat with both faces flush with faces of adjacent face brick work   | m  | 23    |
| 50   | 376mm Wide sill set flat with both faces flush with faces of adjacent face brick work   | m  | 1     |
| <b><u>Sundries</u></b>   |   |    |       |
| 51   | Squint quoin cutting to face bricks   | m  | 25    |
| 52   | Fair raking cutting to face bricks  | m  | 68    |
| <b><u>EXTERNAL FACE BRICKWORK</u></b>  |   |    |       |
| <b><u>EXTERNAL FACE BRICKWORK (COROBRICK ROAN SATIN)</u></b>   |   |    |       |
| <b><u>EXTERNAL face bricks with FLUSH horizontal and vertical joints</u></b>   |   |    |       |
| 53   | Extra over brickwork for face brickwork in stretcher bond   | m2 | 194   |
| 54   | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, with flush joints on both faces                | m  | 1     |
| 55   | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, with flush joints on one face and 110mm soffit | m  | 4     |
| <b><u>Brick-on-edge header course copings, sills, etc of EXTERNAL face bricks with FLUSH joints on all exposed faces</u></b> |   |    |       |
| 56   | 222mm Coping on top of one brick wall   | m  | 11    |
| 57   | 220mm Wide sills set sloping and slightly projecting  | m  | 5     |
| <b><u>EXTERNAL face bricks pointed with RECESSED horizontal and vertical joints</u></b>                                      |   |    |       |
| 58   | Extra over brickwork for face brickwork in stretcher bond   | m2 | 1,284 |

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|----|--|----|-----|
| 59 | Extra over brickwork in beamfilling for face brickwork   | m2 | 44  |
| 60 | Fair raking cutting  | m  | 15  |
| 61 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on one face                             | m  | 6   |
| 62 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on both faces                           | m  | 3   |
| 63 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on one face and 110mm soffit            | m  | 83  |
| 64 | Extra over brickwork for 220mm wide brick-on-edge header course lintels one course high, pointed on both faces and 220mm soffit          | m  | 4   |
|    | <b><u>Brick-on-edge header course copings, sills, etc of EXTERNAL face bricks, pointed with RECESSED joints on all exposed faces</u></b> |    |     |
| 65 | 222mm Coping on top of one brick wall  | m  | 285 |
| 66 | 220mm Wide sills set sloping and slightly projecting   | m  | 132 |

**PAVING**

Preparation of concrete floor beds, slabs, etc for pavings

Concrete surfaces shall be hacked (preferably by mechanical means) until all laitance, dirt, oil, etc is dislodged and swept clean of all loose matter. Surfaces shall then be wetted and kept damp for at least six hours before slushing with 1:2 cement/sand and while still wet, pavings, etc shall be laid on a 1:4 cement mortar bed not exceeding 25mm thick and jointed and pointed with hollowed joints. Sand shall be clean, sharp river sand

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|   |    |  |    |    |   |
|---|----|--|----|----|---|
| 67  | LI | <u>Paving of 220 x 108.5 x 50mm paving bricks<br/>(Corobrik Burgundy Paver class PA)</u> | m2 | 31 | R |
| <b>Carried to Collection</b>  |    |  |    |    |   |
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|---------|---|----------|-------|--------|
|         | <b><u>BILL NO. 5</u></b>  |          |       |        |
|         | <b><u>WATERPROOFING</u></b>   |          |       |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 120 for JBCC CPAP purposes  |          |       |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |       |        |
|         | <b><u>Waterproofing</u></b>   |          |       |        |
|         | Waterproofing of roofs, basements, etc shall be laid under a ten year guarantee. Waterproofing to roofs shall be laid to even falls to outlets etc with necessary ridges, hips and valleys. Descriptions of sheet or membrane waterproofing shall be deemed to include additional labour to turn-ups and turn-downs |          |       |        |
|         | <b><u>DAMP-PROOFING OF WALLS AND FLOORS</u></b>   |          |       |        |
|         | <b><u>One layer of 375 micron black embossed polyethylene damp-proof course, well lapped at joints and intersections and bedded and joined in cement mortar</u></b>   |          |       |        |
| 1       | In walls  | m2       | 152   |        |
|         | <b><u>One layer of 250 micron green polyethylene damp-proof membrane (SANS 952-1985 Type C) sealed at laps with PVC self-adhesive tape</u></b>  |          |       |        |
| 2       | Under surface beds  | m2       | 1,256 |        |
|         | <b><u>Two coats bitumen emulsion waterproof coating</u></b>   |          |       |        |
| 3       | On internal surfaces of sump, catchpit, etc   | m2       | 5     |        |
|         | <b><u>WATERPROOFING TO ROOFS, BASEMENTS, ETC</u></b>  |          |       |        |
|         | <b>Carried to Collection</b>  |          |       | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 5<br>WATERPROOFING<br><b>Keimoes Magistrate's office</b>   |          |       |        |

**Supplementary preambles:**

Preparation of substrata:  
 Screeded roof surfaces shall be firm, dry and clean. Corners shall be coved or arris rounded. All surfaces to receive waterproofing are to be fully primed with a solvent based bitumen primer. Timber boarded roof surfaces shall be dry, clean and even. All internal angles are to receive a timber triangular fillet. Corners and edges shall be arris rounded.

Waterproofing is to be laid in accordance with the Manufactureres Code of Practice by an Approved Contractor.

**4mm Thick special polyester fully bonded polymer modified bitumen waterproof membrane comprising a dual product of a high strength polyester core and a top layer of reinforced glass tissue, laid with 75mm side and 100mm end laps, sealed to primed surfaces to falls by "torch-fusion", laid under a ten-year guarantee, to receive paint (elsewhere)**

|   |   |    |     |
|---|---|----|-----|
| 4 | On flat roofs and edges                               | m2 | 241 |
| 5 | On walls and beams                                    | m2 | 61  |
| 6 | On tops of walls and inverted beams                   | m2 | 39  |
| 7 | Sealing edges to brickwork or concrete                | m  | 229 |
| 8 | Additional membrane at 100mm diameter fullbore outlet | No | 23  |

**Two coats bituminous aluminium paint:**

|   |                           |    |     |
|---|---------------------------|----|-----|
| 9 | On waterproofing to roofs | m2 | 341 |
|---|---------------------------|----|-----|

**JOINT SEALANTS ETC (PROVISIONAL)**

**Polysulphide sealing compound including backing cord, bond breaker, primer, etc**

|    |   |   |    |
|----|---|---|----|
| 10 | 12 x 15mm In vertical expansion joints including raking out expansion joint filler as necessary | m | 88 |
|----|---|---|----|

**FIRESTOPS (PROVISIONAL)**

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**Two hour fire rated fire stop system, measured over sleeves, pipes, etc**

|    |   |    |    |
|----|---|----|----|
| 11 | Seal opening through 230mm thick brick wall around pipes, sleeves, etc. with expanding firestop foam seal and finish off smooth both sides of opening | m2 | 15 |
| 12 | Seal opening through 170mm thick concrete slab around pipes, sleeves, etc with expanding firestop seal and finish off smooth both sides of opening    | m2 | 25 |

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WATERPROOFING

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Bill No. 5

WATERPROOFING

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|---|----------|------|--------|
| <p><b><u>SECTION NO. 2</u></b></p>  |          |      |        |
| <p><b><u>BILL NO. 6</u></b></p>   |          |      |        |
| <p><b><u>ROOF COVERINGS ETC</u></b></p>   |          |      |        |
| <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 124 for JBCC CPAP purposes</p>   |          |      |        |
| <p><b><u>PROFILED METAL SHEETING AND ACCESSORIES</u></b></p>  |          |      |        |
| <p>SHEETING<br/>The roof sheeting shall be double-interlocking concealed-fix profile with transverse stiffener ribs roll-formed in continuous lengths and cut to length by a pneumatic cut-off process from certified Galvanised 0.58mm steel. A certificate verifying compliance shall be issued by the manufacturer. The profile shall be roll-formed with four ribs at centres not exceeding 233mm and a cover width not exceeding 700mm, the pans/troughs shall incorporate transverse stiffener ribs. These will include a male and female rib with capillary action breaks. The male rib shall incorporate spurs spaced no more than 200mm apart to ensure minimum clipping areas on the side lap, and stand proud of the rib for purposes of double interlocking action with adjacent sheets. When interlocked, the minimum sheet depth shall be 41mm.</p> |          |      |        |
| <p>The standing seam concealed fix profiled roof sheeting with transverse stiffener ribs shall be fixed to every purlin by means of patented KL700 clips having spurs which will securely hold the sheets in position and lock-in the sidelap and both centre ribs. The KL700 Plus clips shall be manufactured from Galvanized steel and shall be fixed with ZAP no. 10x45mm Waferhead screws type 17 to timber purlins.</p>  |          |      |        |
| <p><b>Carried to Collection</b></p>   |          |      |        |
| <p>Section No. 2<br/>BUILDING WORK<br/>Bill No. 6<br/>ROOF COVERINGS, ETC<br/><b>Keimoes Magistrate's office</b></p>  |          |      |        |
|   |          | R    |        |

**FLASHINGS**

Flashings specifications shall be to the manufacturer's standards and fixed to the sheeting with S10 brackets or sliding brackets at apex where roof sheets are 30m or longer, to obviate any direct fixing perforations. Prior to flashings being fixed, all troughs at the apex shall be stop-ended to the full depth of the sheet in order to prevent any penetration of wind driven water. The trough shall be lipped at the eaves end to form a drip. Transverse flashing flanges shall be notched to the sheet profile where necessary. All these operations must be performed with special tools available from the manufacturer

**SAFETY**

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

**INSTALLATION**

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

**GUARANTEE**

The manufacturer shall comply with ISO 9001:2008 Quality Management System. Standing seam concealed fix profiled roof sheeting with transverse stiffener ribs sheeting shall be laid in strict accordance with the manufacturer's specifications by an approved contractor.

A written and approved five year guarantee of water-tightness shall be issued after approval of roofs by the manufacturer.

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**0,58mm thick galvanised steel Z200 " (Heavy Industrial) standing seam double-interlocking concealed fix profile roof sheeting with transverse stiffener ribs, complying with ISQ 550 (3T) (A653) with a silicone polyester coloured finish on one side and standard backing coat on other side , roll-formed in continuous lengths and fixed with "KL700-Plus" concealed fastening bracket, all according to the manufacturer's written instructions**

|   |   |    |       |
|---|---|----|-------|
| 1   | Roof covering with pitch not exceeding 25 degrees fixed to timber purlins   | m2 | 1,019 |
| 2   | Side cladding (Provisional)   | m2 | 4     |
| 3   | Translucent Roofing Cladding shall be Glassfibre Reinforced Polyester Heavy weight with UV surface protection in Clear in Klip-Tite™ profile fixed in strict accordance with specification. | m2 | 15    |
| <b><u>Flashings from 0,8mm galvanised Z200 spelter steel sheeting with silicone polyester coloured finish to one side and fixed in strict accordance with manufacturer's specifications</u></b> |   |    |       |
| 4   | Ridge capping 550mm girth three times bent and notched to suit roof profile   | m  | 21    |
| 5   | Hip capping 550mm girth three times bent and notched to suit roof profile   | m  | 42    |
| 6   | Apex flashing 550mm girth and three times bent and notched to suit roof profile   | m  | 10    |
| 7   | Standard head wall flashings 375mm girth twice bent and notched to suit roof profile  | m  | 126   |
| 8   | Standard side wall flashings 408mm girth twice bent   | m  | 89    |
| 9   | Raking valley gutter 616mm girth and four times bent along girth  | m  | 17    |

**SHEET METAL FLASHINGS, LININGS, COPINGS, ETC**

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Section No. 2  
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**0,8mm Galvanised sheet iron with silicone polyester colour finish to match the roofing:**

|    |  |   |     |
|----|--|---|-----|
| 10 | Standard counter flashings including cutting groove in brickwork, sealing against walls and between layers | m | 126 |
| 11 | Stepped cover flashings including cutting groove in brickwork, sealing against walls and between layers    | m | 89  |

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Bill No. 6

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| <p><b><u>SECTION NO. 2</u></b></p>  |          |      |        |
| <p><b><u>BILL NO. 7</u></b></p>   |          |      |        |
| <p><b><u>CARPENTRY AND JOINERY</u></b></p>  |          |      |        |
| <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 126 for JBCC CPAP purposes</p>   |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>  |          |      |        |
| <p><b><u>Timber</u></b></p>   |          |      |        |
| <p>All softwood to be South African Pine</p>  |          |      |        |
| <p><b><u>Descriptions</u></b></p>   |          |      |        |
| <p>The term "planted on" shall mean the nailing of one timber member to another.</p>  |          |      |        |
| <p>The term "screwed on" shall mean the countersunk screwing of one timber member to another.</p>   |          |      |        |
| <p>The term "screwed on and pelleted" shall mean the screwing of one timber member to another with the heads of screws sunk and pelleted.</p>                                     |          |      |        |
| <p>The term "plugged" shall mean the countersunk screwing of a timber member to and including plastic plugs in brickwork or concrete.</p>   |          |      |        |
| <p>The term "plugged and pelleted" shall mean the screwing of a timber member to and including plastic plugs in brickwork or concrete with heads of screws sunk and pelleted.</p> |          |      |        |
| <p>Descriptions of floors, ceilings, joinery, etc. shall be deemed to include for all square cutting.</p>   |          |      |        |
| <p>Descriptions of items given in lineal metre shall be deemed to include for mitres, stopped ends, fitted intersections, etc.</p>  |          |      |        |
| <p>Descriptions of rounded angles, rebates, grooves, chamfers, moulded edges, etc. shall be deemed to include for angles, ends, etc.</p>  |          |      |        |
| <p>_____</p> <p><b>Carried to Collection</b></p>  |          |      |        |
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**ROOFS, ETC (PROVISIONAL)**

**Plate nailed timber roof truss construction**

All the roof trusses to be designed and constructed with softwood structural timber to include for live loads, wind loads and to take coloured galvanised ribbed roof covering, purlins and fibre cement or gypsum plasterboard ceilings with brandering and shall comply with all the requirements laid down in PW 371A & B, clause 4. Each roof truss shall have all its members accurately cut and close butted together and rigidly fixed by CSIR approved patented galvanized metal roofing screws, fixed on both sides of each intersection by an approved method, all in accordance with the manufacturer's instructions.

The design, manufacture and transportation of the roof trusses, bracing, etc. shall be under the control of a registered Engineer in accordance with SANS 2001-CT2, SANS 1900 and SANS 10243 and it shall be required from the manufacturer of the trusses to lodge a written guarantee that his construction has been designed by a qualified Structural Engineer and that he is in possession of a capability certificate issued by the Institute for Timber Construction and approved by the Representative/ Agent. The design drawings of the trusses has to be submitted to architects for approval prior to fabrication.

Erection must be carried out as described in "The Erection and Bracing of Timber Roof Trusses" published by the Truss Plate Association of South Africa Ltd. and the National Timber Research Institute, CSIR.

Cost of labour for erecting roof trusses shall be deemed to include for taking delivery, temporary approved site storing, hoisting and fixing in position, trimming ends, notching, etc., and for any temporary bracing.

The following is applicable in respect of roof trusses:

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Trusses are at maximum 1200mm centres.

Roof covering is 0,58mm concealed fixed sheet iron roof sheeting on 50 x 76mm purlins. Ceilings are mainly suspended gypsum ceilings.

The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences

**Plate nailed timber roof truss construction for roof not exceeding 25 degree including splayed ends, etc**

|    |  |    |    |
|----|--|----|----|
| 1  | Single pitch truss type F1, 1,809 x 0,36m high overall   | No | 3  |
| 2  | Single pitch truss type D1, 2,714 x 0,611m high overall  | No | 6  |
| 3  | Single pitch truss type C2, 2,983 x 0,758m high overall  | No | 6  |
| 4  | Single pitch truss type E2, 3,218 x 1,2m high overall  | No | 4  |
| 5  | Single pitch truss type C3, 4,007 x 0,946m high overall  | No | 7  |
| 6  | Single pitch truss type B6, 4,883 x 1,2m high overall  | No | 1  |
| 7  | Single pitch truss type E1, 5,512 x 1,2m high overall  | No | 18 |
| 8  | Single pitch truss type B3, 2,985 x 0,765m high overall with 0,840m eaves projection on one side | No | 3  |
| 9  | Single pitch truss type B2, 3,319 x 0,813m high overall with 0,776m eaves projection on one side | No | 7  |
| 10 | Single pitch truss type B4, 3,32 x 0,794m high overall with 0,776m eaves projection on one side  | No | 20 |
| 11 | Single pitch truss type B4A, 3,43 x 0,91m high overall with 0,776m eaves projection on one side  | No | 3  |
| 12 | Single pitch truss type C1, 3,696 x 0,884m high overall with 0,765m eaves projection on one side | No | 5  |
| 13 | Single pitch truss type B7, 4,883 x 1,07m high overall with 0,776m eaves projection on one side  | No | 20 |

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|   |  |      |   |   |
|---|--|------|---|---|
| 14  | Single pitch truss type A2A, 5,424 x 0,924m high overall with 1,699m rafter extension on one side  | No   | 9 |   |
| 15  | Single pitch truss type A2, 12.205 x 1,984m high overall with 2,23m rafter extension on one side   | No   | 9 |   |
| 16  | Single pitch truss type A3, 12.205 x 1,984m high overall with 2,23m rafter extension on one side   | No   | 3 |   |
| 17  | Single pitch truss type A1, 13.947 x 1,984m high overall with 2,23m rafter extension on one side   | No   | 5 |   |
| 18  | Double pitch truss type B8, 3,454 x 0,533 high overall with 0,776m eaves projection on both sides  | No   | 3 |   |
| 19  | Double pitch truss type B1, 4,89 x 0,66m high overall with 0,776m eaves projection on both sides   | No   | 3 |   |
| 20  | Double pitch truss type B5, 7,88 x 0,923m high overall with 0,776m eaves projection on both sides  | No   | 2 |   |
| 21  | Hipped end to single pitched roof 3,5 x 3,5m overall on plan x 0,613m high overall with 0,77m overhang one side, including part trusses 2 x BJ1, 2 x BJ2 & 2 x BR1 jack rafters, and hip truss BG2, etc                                  | Sets | 1 |   |
| 22  | Hipped end to single pitched roof 3,5 x 3,5m overall on plan x 0,613m high overall with 0,77m overhang one side, including part trusses 2 x BJ1, 2 & BJ2 jack rafters, hip truss BG2, etc  | Sets | 1 |   |
| 23  | Hipped end to single pitched roof 3,82 x 4,361m overall on plan x 0,868m high overall with 0,77m overhang one side, including part trusses 2 x CJ5, 2 x CJ6, 2 x CJ7 & 2 x CR2, jack rafters, hip rafters, permanent bracing, etc        | Sets | 1 |   |
| 24  | Hipped end to single pitched roof 3,82 x 9,7m overall on plan x 0,833m high overall with 0,77m overhang one side, including part trusses 4 x CJ1, 4 x CJ2, 4 x CJ3, 1 x CJ4 & 4 x CR1, jack rafters, hip rafters, permanent bracing, etc | Sets | 1 |   |
| 25  | Valley end to single pitched roof, 4.7 x 4.7m overall on plan x 0,635m high overall, including part trusses 1 x BV1, 1 x BV2, 1 x BV3 , 1 x BR3 & 1 x BR2 jack rafters, etc  | Sets | 1 |   |
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|   |  |    |      |
|---|--|----|------|
| 26  | Valley truss type BV4 & BV5, 2,401 x 0,212mm high  | No | 2    |
| 27  | Girder truss type BG3, 4,883 x 0,785m high   | No | 1    |
| 28  | Single pitch hip truss type CG1, 5,293 x 0,875m high with 1,09m eaves projecting on one side   | No | 2    |
| 29  | Single pitch hip truss type CG2, 5,821 x 0,94m high with 1,09m eaves projecting on one side  | No | 1    |
| 30  | Double pitch hip truss type BG1, 4,89 x 0,66m high 2-ply truss with 0,77m eaves projecting on one side   | No | 1    |
| 31  | Double pitch hip truss type BG4, 7,88 x 0,923m high 4-ply truss with 0,77m eaves projecting on one side  | No | 1    |
| <b><u>Engineer's design and certificate of approval</u></b> |  |    |      |
| 32  | Allow for the design of prefabricated metal connector timber roof trusses by a registered professional engineer as well as the issuing of a certificate of approval by the engineer with regard to design                                  |    | Item |
| 33  | Allow for the inspection and approval by a registered professional engineer of prefabricated timber trusses as well as the issuing of a certificate of approval by the engineer with regard to manufacturing and erection of these trusses |    | Item |
| <b><u>Sawn softwood grade 4</u></b>                         |  |    |      |
| 34  | 38 x 114mm Wall plate  | m  | 227  |
| 35  | 38 x 76mm Runners/bracing  | m  | 543  |
| 36  | 38 x 76mm Bracing  | m  | 285  |
| 37  | 38 x 114mm Bracing   | m  | 48   |
| 38  | 38 x 114mm Valley lining   | m  | 14   |
| 39  | 38 x 114mm Bearers bolted to roof trusses at eaves   | m  | 76   |
| 40  | 38 x 228mm Bearers bolted to roof trusses and bearers at eaves (Provisional)   | m  | 117  |
| 41  | 50 x 76mm Purlins  | m  | 965  |

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|                                 |  |    |     |
|---------------------------------|--|----|-----|
| 42                              | 76 x 76mm Purlins  | m  | 143 |
| <b><u>Sundries</u></b>          |  |    |     |
| 43                              | 90 Degree mild steel joist hangers between 38mm roof timber and wall junction including bolts and bolting to brick wall or concrete beam | No | 131 |
| 44                              | Universal angle bracket  | No | 21  |
| 45                              | Hurricane clips between truss and purlins  | No | 520 |
| 46                              | 3.2mm Diameter galvanised wire ties, 1000mm girth, wrapped around rafter and purlin with ends tied together                              | No | 518 |
| <b><u>Wood preservative</u></b> |  |    |     |
| 47                              | Two coats wood preservative applied hot on sawn or wrot timbers before fixing  | m2 | 68  |

**CEILING TRUSSES**

**Plate nailed timber ceiling trusses**

**The following is applicable in respect of ceiling trusses :**

Ceiling trusses are built of sawn softwood and bolted to concrete. Truss members are single length timbers joined together with galvanised plate nailed connector plates.

The dimensions in the descriptions of the trusses are nominal and actual measurements are to be obtained from the architect and/or the site before design or fabrication commences.

Rates for ceiling trusses shall include the manufacture and fixing of trusses.

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|                                  |  |    |     |
|----------------------------------|--|----|-----|
| 48                               | Triangular shaped truss comprising of one 38 x 87 x 1560mm long horizontal leg, <u>one</u> 38 x 114 x 2075mm long vertical leg and <u>one</u> 38 x 114 x 1910mm long diagonal leg; horizontal and vertical leg joined at 90 degree angle; diagonal leg joined with one end to horizontal leg and other end to vertical leg; truss three times holed for bolts (elsewhere measured)                             | No | 12  |
| 49                               | Y-shaped truss comprising of one 38 x 87 x 1545mm long horizontal leg, <u>one</u> 38 x 114 x 1162mm long vertical leg and <u>two</u> 38 x 114 x 735mm long diagonal legs; vertical leg joined at 90 degree angle to centre of horizontal leg; each diagonal leg joined at 45 degree angles with one end to horizontal leg and other end to vertical leg; truss four times holed for bolts (elsewhere measured) | No | 23  |
| <b><u>Sawn softwood</u></b>      |  |    |     |
| 50                               | 50 x 114mm Rail  | m  | 35  |
| <b><u>Sundries</u></b>           |  |    |     |
| 51                               | Bolts  | kg | 10  |
| 52                               | 90 Degree galvanised sheet iron truss hanger to suit 38mm timber   | No | 82  |
| 53                               | 75 x 75 x 5mm thick angle section cleat, 300mm long, four times holed for bolts (elsewhere measured)   | No | 46  |
| 54                               | 12mm Diameter expansion bolt   | No | 256 |
| <b><u>EAVES, VERGES, ETC</u></b> |  |    |     |
| <b><u>Wrought meranti</u></b>    |  |    |     |
| 55                               | 22mm Quadrant beads  | m  | 234 |

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**Pressed nutec-cement**

|    |   |    |    |
|----|---|----|----|
| 56 | 6mm thick medium density flat fibre cement plain sheeting eaves soffit covering including 52 x 76mm sawn softwood branders along edges, along centre and at 900mm centres across sheets and with 10mm open joints filled with silicone sealant and foam backing strips at 3,6mm centres, fixed to timber beam (elsewhere measured) with self tapping screws | m2 | 88 |
| 57 | 6mm thick medium density flat fibre cement plain sheeting verge soffit covering including 52 x 76mm sawn softwood branders along edges, along centre and at 900mm centres across sheets and with 10mm open joints filled with silicone sealant and foam backing strips at 3,6mm centres, fixed to timber beam (elsewhere measured) with self tapping screws | m2 | 2  |

**Pressed medium density fibre cement**

|    |  |   |     |
|----|--|---|-----|
| 58 | 12 x 300mm Fascia and barge board including galvanised steel H-profile jointing strips | m | 199 |
|----|--|---|-----|

**SKIRTINGS**

**Wrought Meranti**

|    |  |   |     |
|----|--|---|-----|
| 59 | 19 x 76mm Skirting, including 19mm quadrant bead plugged | m | 486 |
|----|--|---|-----|

**DOORS, ETC.**

**Wrought meranti door of 105mm x 44 mm thick top rail, 210mm x 44mm thick bottom rail, 105mm x 44mm thick stiles, 95mm x 18mm thick middle rail and braces; door filled in with 90mm x 18mm thick tongued and grooved v-jointed VERTICAL boarding to one side and 3mm thick plywood on other side as type PD1/PB door with a 5 year guarantee**

|    |   |    |   |
|----|---|----|---|
| 60 | 44mm Door, 813mm wide x 2032mm high                               | No | 5 |
| 61 | 44mm Door, 1511mm wide x 2032mm high, with rebated meeting stiles | No | 5 |

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**Wrought meranti door of 105mm x 44 mm thick top rail, 152mm x 44mm thick bottom rail and 140mm x 44mm thick stiles; door filled in with 100mm x 44mm thick tongued and grooved v-jointed HORIZONTAL slats as type SD30 with a 10 year guarantee**

|    |   |    |    |
|----|---|----|----|
| 62 | 44mm Door, 813mm wide x 2032mm high                               | No | 42 |
| 63 | 44mm Door, 864mm wide x 2032mm high                               | No | 2  |
| 64 | 44mm Door, 1511mm wide x 2032mm high, with rebated meeting stiles | No | 7  |

**Medium-duty semi-solid flush doors with sapele veneer on both sides and concealed hardwood edges all round**

|    |                                     |    |    |
|----|-------------------------------------|----|----|
| 65 | 40mm Door, 762mm wide x 2032mm high | No | 1  |
| 66 | 40mm Door, 813mm wide x 2032mm high | No | 45 |
| 67 | 40mm Door, 864mm wide x 2032mm high | No | 4  |

**Door sundries (Provisional)**

|    |   |    |    |
|----|---|----|----|
| 68 | Cutting of opening in timber door for 300 x 300mm air conditioning grille (elsewhere) | No | 8  |
| 69 | Cutting of opening in timber door for 400 x 400mm air conditioning grille (elsewhere) | No | 18 |
| 70 | Cutting of opening in timber door for 500 x 500mm air conditioning grille (elsewhere) | No | 4  |
| 71 | Under cut to door 813mm wide  | No | 12 |

**BEADS, ARCHITRAVES, ETC**

**Wrought meranti**

|    |  |   |   |
|----|--|---|---|
| 72 | 32 x 64mm (Out of) twice rebated and grooved weather board (Provisional) | m | 4 |
|----|--|---|---|

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|  |  |    |     |
|--|--|----|-----|
| 73   | Π-shaped handrail, 76mm wide x 69mm deep, formed of and including 19mm thick x 76mm wide top rail twice angle rounded; 19mm thick x 50mm high plain side rail and 19mm thick x 50mm high side rail once grooved; U-shaped handrail fitted over 38mm wide x 50mm deep mild steel hollow section handrail (elsewhere measured) | m  | 154 |
| 74   | Extra over 69 x 76mm Π-shaped handrail for closed end; closed end angle rounded and grooved to match profile of Π-shaped handrail  | No | 56  |
| 75   | Extra over 69 x 76mm Π-shaped handrail for ramp or knee  | No | 34  |
| 76   | Extra over 69 x 76mm Π-shaped handrail for mitred L-intersection   | No | 20  |
| 77   | Extra over 69 x 76mm Π-shaped handrail for 50 x 25mm notch to fit over 50 x 25mm steel bracket   | No | 129 |
| <b><u>PANELLING</u></b>  |  |    |     |
| <b><u>Wrought softwood puttied, evened and smoothed on all faces</u></b> |  |    |     |
| 78   | 38 x 76mm Grounds, plugged (Provisional)   | m  | 252 |
| <b><u>Wrought hardwood</u></b>   |  |    |     |
| 79   | 40 x 40mm Once rebated frame, plugged  | m  | 162 |
| <b><u>Melamine faced chipboard (Colour : Windsor cherry)</u></b>         |  |    |     |
| 80   | 16mm Thick cladding/panelling, secured to timber grounds at 300mm centres with and including mirror head screws  | m2 | 25  |
| <b><u>Melamine faced chipboard (Colour : Black)</u></b>                  |  |    |     |
| 81   | 16mm Thick cladding/panelling, secured to timber grounds at 300mm centres with and including mirror head screws  | m2 | 19  |

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|    |   |    |     |
|----|---|----|-----|
|    | <b><u>600 x 600 x 35mm Thick high quality gypsum based composite acoustic and decorative wall panels with three dimensional "tessere" design secured to plastered surfaces with and including glue as per manufacturer's instructions</u></b> |    |     |
| 82 | On walls  | m2 | 81  |
|    | <b><u>Fibreglass or mineral wool insulation</u></b>   |    |     |
| 83 | 38mm Thick insulation closely fitted between plastered wall surface and melamine faced chipboard wall panelling   | m2 | 31  |
|    | <b><u>Sundries</u></b>  |    |     |
| 84 | 2mm Thick x 16mm wide PVC edging (Colour : Windsor cherry)  | m  | 105 |
| 85 | 2mm Thick x 16mm wide PVC edging (Colour : Black)   | m  | 136 |

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| Item No   | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><b><u>SECTION 2</u></b></p>  |          |      |        |
| <p><b><u>BILL NO. 8</u></b></p>   |          |      |        |
| <p><b><u>JOINERY FITTINGS</u></b></p>   |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>  |          |      |        |
| <p><b><u>TRADES AND MEASUREMENT METHODOLOGY</u></b></p>   |          |      |        |
| <p>All items forming and integral part of joinery fittings are measured in this bill and allocated to the applicable trades.</p>                                    |          |      |        |
| <p>Joinery fittings are grouped together according to type, example "The following in kitchen built-in cupboards", "The following in adjustable shelving", etc.</p> |          |      |        |
| <p><b><u>CHECK AND VERIFY DIMENSIONS ON SITE</u></b></p>  |          |      |        |
| <p>The contractor shall check and verify all dimensions on site prior ordering and manufacturing of joinery fittings.</p>   |          |      |        |
| <p><b><u>GRANITE TOPS</u></b></p>   |          |      |        |
| <p><b><u>Granite</u></b></p>  |          |      |        |
| <p>Granite tops are to be free from cracks and other defects.</p>   |          |      |        |
| <p>Unless otherwise described all exposed edges, projections, etc. shall be finished to match the face finish.</p>  |          |      |        |
| <p><b><u>Damaged work</u></b></p>   |          |      |        |
| <p>Damaged granite tops shall be discarded and replaced at the contractor's expense.</p>  |          |      |        |
| <p>No touching up will be permitted except in exceptional cases with the principal agent's consent.</p>   |          |      |        |
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| <p>Section No. 2<br/>           BUILDING WORK<br/>           Bill No. 8<br/>           JOINERY FITTINGS<br/> <b>Keimoes Magistrate's office</b></p>                 |          | R    |        |

**Descriptions**

Descriptions of granite tops shall be deemed to include preparatory work, all labour work, mortices for bolts, hoisting and setting in position and cleaning down at completion.

**JOINERY FITTINGS**

**Rates for joinery fittings shall be deemed to include the following :**

1. Melamine faced **chipboard** manufactured in accordance with SANS 50312 : 2015 (EN 312 : 2010) (P2) and EN 14322 : 2017 (Table 1)
2. Melamine faced **supawood** manufactured in accordance with SANS 540-1 : 2009, EN 622-5 : 2 EN 14322 : 2017 (Table 1)
3. Melamine faced chipboard, comprising of chipboard **covered** on **both faces** with 1mm thick melamine-impregnated décor paper
4. Melamine faced supawood, comprising of supawood **covered** on **both faces** with 1mm thick melamine-impregnated décor paper
5. Melamine surfaces to be durable and scratch and moisture resistant
6. Components of fittings shall be cut to the required sizes; no joining of components to make up a required size shall be allowed
7. All components of fittings shall be glued and shot-pinned together, unless otherwise described
8. Joinery fittings secured to brick walls with and including nail-in nylon countersunk CSK8 anchors
12. The wording "size overall" refers to the distance measured from external face to the external face of a unit.
13. The term "plugged" refers to the fixing of timbers to brick wall with nail-in nylon countersunk CSK8 anchors

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**THE FOLLOWING IN ONE (1) SAND BOX**

**CARPENTRY AND JOINERY (WG 126)**

**Wrought hardwood and chipboard**

|   |  |    |   |
|---|--|----|---|
| 1 | Sand box, overall 400mm wide x 800mm long x 220mm deep, formed of and including 22mm thick wrought hardwood sides and 22mm thick chipboard bottom (sand fill elsewhere measured) | No | 1 |
|---|--|----|---|

**PAINTWORK (WG 152)**

**Three coats matt polyurethane varnish on wood**

|   |            |    |   |
|---|------------|----|---|
| 2 | On sandbox | m2 | 1 |
|---|------------|----|---|

-----  
**THE FOLLOWING IN ADJUSTABLE SHELVING**

**CARPENTRY AND JOINERY (WG 126)**

**Sanded laminated pine**

|   |   |   |     |
|---|---|---|-----|
| 3 | 20mm Thick x 305mm wide shelving, secured to metal wall band brackets with and including three pan head self-tapping screws per bracket | m | 494 |
|---|---|---|-----|

**IRONMONGERY (WG 132)**

**2mm Thick epoxy powder coated mild steel shelving system**

|   |   |    |     |
|---|---|----|-----|
| 4 | 30mm Wide x 13mm deep x 2438mm long pressed and pre-punched double slotted wall band, secured to brick wall with and including eight nail-in nylon countersunk CSK8 anchors | No | 145 |
|---|---|----|-----|

|   |   |    |     |
|---|---|----|-----|
| 5 | 3-Lug "clip-in" shelf bracket, 229mm long | No | 870 |
|---|---|----|-----|

**PAINTWORK (WG 152)**

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**Three coats matt polyurethane varnish on wood**

|   |                   |    |     |
|---|-------------------|----|-----|
| 6 | On shelving, etc. | m2 | 329 |
|---|-------------------|----|-----|

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**THE FOLLOWING IN FREE-STANDING ADJUSTABLE SHELVING**

**CARPENTRY AND JOINERY (WG 126)**

**Sanded laminated pine**

|   |   |   |    |
|---|---|---|----|
| 7 | 20mm Thick x 305mm wide shelving, secured to metal wall band brackets with and including three pan head self-tapping screws per bracket | m | 46 |
|---|---|---|----|

**IRONMONGERY (WG 132)**

**Epoxy powder coated mild steel shelving system**

|   |  |    |   |
|---|--|----|---|
| 8 | 38mm Wide x 76mm deep x 2438mm high pressed and pre-punched double sided and double slotted gondola upright, including levellers | No | 7 |
|---|--|----|---|

|   |   |    |    |
|---|---|----|----|
| 9 | 3-Lug "clip-in" gondola base foot, 100mm high x 229mm long, including levellers | No | 14 |
|---|---|----|----|

|    |   |    |    |
|----|---|----|----|
| 10 | Gondola spacer, 100mm high x 914mm long | No | 16 |
|----|---|----|----|

|    |   |    |   |
|----|---|----|---|
| 11 | Gondola top cover, 25mm high x 914mm long | No | 8 |
|----|---|----|---|

|    |  |    |   |
|----|--|----|---|
| 12 | Gondola plain infill panel, 2438mm high x 914mm long | No | 8 |
|----|--|----|---|

|    |   |    |    |
|----|---|----|----|
| 13 | 3-Lug "clip-in" shelf bracket, 229mm long | No | 84 |
|----|---|----|----|

**PAINTWORK (WG 152)**

**Three coats matt polyurethane varnish on wood**

|    |                   |    |    |
|----|-------------------|----|----|
| 14 | On shelving, etc. | m2 | 31 |
|----|-------------------|----|----|

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**THE FOLLOWING IN WORKTOPS AND COUNTERTOPS**

Carried to Collection

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
 Keimoes Magistrate's office

**STONWORK (WG 118)**

**Granite with polished finish (Colour : Dark grey to black) in worktops and counter tops secured on top of timber bearers and/or timber cupboards (timber bearers and cupboards elsewhere measured)**

|    |   |   |    |
|----|---|---|----|
| 15 | 32mm Thick work top and/or counter top, 373mm wide  | m | 2  |
| 16 | 32mm Thick work top and/or counter top, 500mm wide  | m | 2  |
| 17 | 32mm Thick work top and/or counter top, 600mm wide  | m | 32 |
| 18 | 32mm Thick work top and/or counter top, 700mm wide  | m | 1  |
| 19 | 32mm Thick work top and/or counter top, 1177mm wide | m | 3  |

**Granite with polished finish (Colour : Dark grey to black) in worktops and counter tops secured on top of steel frame (steel frame elsewhere measured)**

|    |  |   |   |
|----|--|---|---|
| 20 | 32mm Thick work top and/or counter top, 600mm wide | m | 5 |
| 21 | 32 mm Thick x 60mm high fascia                     | m | 1 |
| 22 | 32 mm Thick x 75mm high fascia                     | m | 4 |
| 23 | 32mm Thick x 175mm high fascia                     | m | 2 |

**Granite with polished finish (Colour : Dark grey to black) in worktops and counter tops bedded in and including 3:1 cement mortar on top of brick walls (elsewhere measured)**

|    |  |   |   |
|----|--|---|---|
| 24 | 32mm Thick work top and/or counter top, 400mm wide | m | 3 |
| 25 | 32mm Thick work top and/or counter top, 450mm wide | m | 2 |
| 26 | 32mm Thick work top and/or counter top, 544mm wide | m | 2 |
| 27 | 32mm Thick work top and/or counter top, 650mm wide | m | 4 |
| 28 | 32mm Thick x 75mm high skirting                    | m | 3 |

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
**Keimoes Magistrate's office**

|  |   |    |    |
|--|---|----|----|
| <b><u>Formed and polished edges to 32mm thick granite tops</u></b> |   |    |    |
| 29   | 45 Degree, bevelled edge with slightly rounded corners  | m  | 61 |
| 30   | 90 Degree (square) edge with slightly rounded corners   | m  | 20 |
| <b><u>Form holes in 32 mm thick granite tops</u></b>               |   |    |    |
| 31   | Hole to suit single bowl lay-in sink, size 500mm wide x 900mm long  | No | 1  |
| 32   | Hole to suit double bowl lay-in sink, size 500mm wide x 1500mm long                                       | No | 4  |
| 33   | Hole to suit timber counter of transaction drawer, size 600mm wide x 640mm long                           | No | 2  |
| <b><u>WATERPROOFING (WG 120)</u></b>                               |   |    |    |
| <b><u>Approved silicone sealant</u></b>                            |   |    |    |
| 34   | Between top surfaces of granite worktops/counter tops and adjacent face brick wall surfaces (Provisional) | m  | 47 |
| 35   | Between granite worktops/counter tops and adjacent ceramic tiled wall surfaces (Provisional)              | m  | 19 |
| <b><u>CARPENTRY AND JOINERY (WG 126)</u></b>                       |   |    |    |
| <b><u>Wrought softwood</u></b>                                     |   |    |    |
| 36   | 38 x 50mm Rail  | m  | 2  |
| 37   | 38 x 50mm Rail, nailed and shot-pinned  | m  | 1  |
| 38   | 38 x 50mm Rail, plugged   | m  | 28 |
| <b><u>METALWORK (WG 136)</u></b>                                   |   |    |    |
| <b><u>Welded mild steel frames, brackets, etc.</u></b>             |   |    |    |
| 39   | 50 x 50 x 2mm Thick hollow section rail   | m  | 14 |
| 40   | Extra over 50 x 50 x 2mm thick hollow section rail for mitred L-intersection                              | No | 12 |

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINERY FITTINGS  
**Keimoes Magistrate's office**

|   |  |    |     |
|---|--|----|-----|
| 41  | Hole through both walls of 2mm thick steel hollow section  | No | 12  |
| 42  | 8mm Diameter expansion bolts   | No | 12  |
| <b><u>PAINTWORK (WG 152)</u></b>  |  |    |     |
| <b><u>One coat zinc phosphate alkyd resin primer, one coat universal alkyd based undercoat and two coats high quality alkyd based gloss enamel paint on ferrous metal</u></b> |  |    |     |
| 43  | On rails, bars, pipes, etc not exceeding 300 mm girth  | m  | 14  |
| <b><u>Stain and three coats matt polyurethane varnish on wood</u></b>   |  |    |     |
| 44  | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth  | m  | 31  |
| -----   |  |    |     |
| <b><u>THE FOLLOWING IN FLOOR AND WALL MOUNTED BENCHES</u></b>   |  |    |     |
| <b><u>CARPENTRY AND JOINERY (WG 126)</u></b>  |  |    |     |
| <b><u>Sanded laminated pine</u></b>   |  |    |     |
| 45  | Solid seat and fascia formed of and including 32mm thick x 350mm wide seat, once angle rounded and 32mm thick x 43mm wide fascia; seat and fascia fixed to hollow section steel frame (elsewhere measured) with and including self-tapping screws, countersunk; countersunk screw holes filled solid with and including an approved timber filler of matching colour and finished smooth and flush with adjacent timber surfaces | m  | 61  |
| <b><u>METALWORK (WG 136)</u></b>  |  |    |     |
| <b><u>Welded mild steel frames, brackets, etc.</u></b>  |  |    |     |
| 46  | 50 x 50 x 2mm Thick hollow section rail  | m  | 123 |
| 47  | Extra over 50 x 50 x 2mm thick hollow section rail for closed end  | No | 54  |

Carried to Collection

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
 Keimoes Magistrate's office



|    |   |    |     |
|----|---|----|-----|
| 48 | Extra over 50 x 50 x 2mm thick hollow section rail for mitred L-intersection  | No | 24  |
| 49 | Rectangular shaped framework, 368mm wide x 420mm high, formed of and including 50 x 50 x 2mm thick square hollow sections all round; mitred corners at welded intersections; frame twice holed for bolts (elsewhere measured) | No | 106 |
| 50 | 8mm Diameter expansion bolts  | No | 212 |

**PAINTWORK (WG 152)**

**One coat zinc phosphate alkyd resin primer, one coat universal alkyd based undercoat and two coats high quality alkyd based gloss enamel paint on ferrous metal**

|    |   |    |     |
|----|---|----|-----|
| 51 | On rails, bars, pipes, etc not exceeding 300 mm girth | m  | 269 |
| 52 | On benches (both sides measured)                      | m2 | 57  |

**Stain and three coats matt polyurethane varnish on wood**

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**THE FOLLOWING IN TEN (10) TABLES**

**CARPENTRY AND JOINERY (WG126)**

**Wrought softwood**

|    |                 |   |    |
|----|-----------------|---|----|
| 53 | 20 x 20mm Cleat | m | 39 |
|----|-----------------|---|----|

**Wrought hardwood**

|    |                               |   |    |
|----|-------------------------------|---|----|
| 54 | 34 x 80mm Legs                | m | 7  |
| 55 | 34 x 80mm Once rebated legs   | m | 20 |
| 56 | 34 x 80mm Once rebated frame  | m | 14 |
| 57 | 34 x 80mm Twice rebated legs  | m | 4  |
| 58 | 34 x 80mm Twice rebated frame | m | 17 |

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINERY FITTINGS  
**Keimoes Magistrate's office**

|  |  |    |     |
|--|--|----|-----|
| 59   | 80 x 80mm Twice rebated frame  | m  | 11  |
| 60   | 80 x 80mm Three times rebated frame  | m  | 2   |
| <b><u>Plywood</u></b>  |  |    |     |
| 61   | 20mm Thick dowel, 5mm wide x 20mm long; ends of dowel secured in and including 5mm wide x 10mm deep grooves formed in hardwood frames and edge of 22mm thick melamine faced table top  | No | 192 |
| <b><u>Melamine faced chipboard (Colour : Windsor cherry)</u></b>   |  |    |     |
| 62   | 16mm Thick bottoms, sides, backs, divisions, shelves, cladding, etc.   | m2 | 10  |
| 63   | 16mm Thick top   | m2 | 8   |
| 64   | 16mm Thick lectern top, size overall 500mm wide x 435mm high; bottom edge once rebated and provided with and including 22mm thick x 50mm wide x 500mm long once grooved wrought hardwood edge; top and side edges covered with and including 2mm thick PVC edge strips; top once holed for 10mm diameter steel bush (elsewhere measured) | No | 4   |
| <b><u>Cupboards formed of and including of 16mm thick melamine faced CHIPBOARD in bottoms, sides, backs, tops, shelves and doors; exposed edges of all components in units, including doors and shelves covered with and including 2mm thick PVC edge strips (Colour : Windsor cherry)</u></b> |  |    |     |
| 65   | Single door cupboard, size overall 295mm wide x 427mm deep x 627mm high; fitted with <b>one</b> adjustable shelf; each side panel of cupboard provided with two vertical rows of holes at 100mm centres for shelf studs (elsewhere measured); cupboard secured to underside of timber table top and side panel of table                  | No | 4   |
| 66   | Single door cupboard, size overall 490mm wide x 427mm deep x 627mm high; fitted with <b>one</b> adjustable shelf; each side panel of cupboard provided with two vertical rows of holes at 100mm centres for shelf studs (elsewhere measured); cupboard secured to underside of timber table top and side panel of table                  | No | 2   |

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
**Keimoes Magistrate's office**

**Sundries in isolated components not forming an integral part of cupboards, doors, etc.**

|    |  |   |    |
|----|--|---|----|
| 67 | 2mm Thick x 16mm wide PVC edging (Colour : Windsor cherry) | m | 16 |
|----|--|---|----|

**IRONMONGERY (WG132)**

**Hinges, bolts, etc.**

|    |   |    |    |
|----|---|----|----|
| 68 | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate | No | 12 |
|----|---|----|----|

**Handles**

|    |   |    |   |
|----|---|----|---|
| 69 | Stainless steel (grade 202) barrel handle, 12mm diameter x 112mm long x 33mm high, with concealed bolt-through fixing | No | 6 |
|----|---|----|---|

**Shelf brackets, etc.**

|    |   |    |    |
|----|---|----|----|
| 70 | Metal shelf pin support with plastic cover, size 11mm wide x 17mm high x 8mm deep pin | No | 16 |
|----|---|----|----|

**METALWORK (WG 136)**

**The following in welded mild steel lectern stand**

|    |                                       |   |   |
|----|---------------------------------------|---|---|
| 71 | 25 x 50 x 1.6mm Hollow section column | m | 7 |
|----|---------------------------------------|---|---|

|    |  |    |    |
|----|--|----|----|
| 72 | Extra over 25 x 50 x 1.6mm thick hollow section column for flat closed end | No | 16 |
|----|--|----|----|

|    |  |    |   |
|----|--|----|---|
| 73 | Extra over 25 x 50 x 1.6mm thick hollow section column for mitred L-intersection | No | 4 |
|----|--|----|---|

|    |   |    |   |
|----|---|----|---|
| 74 | Extra over 25 x 50 x 1.6mm thick hollow section column for T-intersection | No | 8 |
|----|---|----|---|

|    |  |   |   |
|----|--|---|---|
| 75 | Purpose made flanged U- shaped sleeve, 135mm girth, formed of and including 1.6mm thick plate; plate four times bent along length; sleeve secured to timber frame along both flanges with and including 6mm diameter button head wood screws spaced at 50mm centres; including drilling of holes through metal | m | 3 |
|----|--|---|---|

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
**Keimoes Magistrate's office**

|    |  |    |    |   |
|----|--|----|----|---|
| 76 | 10mm Diameter x 1.6mm Thick hollow section sleeve, 15mm long, with one end welded to steel frame   | No | 4  |   |
| 77 | 10mm Diameter hole through both skins of 25 x 50 x 1.6mm thick hollow section column   | No | 8  |   |
|    | <b><u>Bolts, etc.</u></b>  |    |    |   |
| 78 | 10mm Diameter x 100mm long galvanized eye bolt and nut   | No | 4  |   |
|    | <b><u>PAINTWORK (WG 152)</u></b>   |    |    |   |
|    | <b><u>One coat zinc phosphate alkyd resin primer, one coat universal alkyd based undercoat and two coats high quality alkyd based gloss enamel paint</u></b>   |    |    |   |
| 79 | On rails, bars, pipes, etc not exceeding 300 mm girth  | m  | 10 |   |
|    | <b><u>Three coats matt polyurethane varnish on wood</u></b>  |    |    |   |
| 80 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth  | m  | 75 |   |
|    | <b><u>Stain and three coats matt polyurethane varnish on wood</u></b>  |    |    |   |
| 81 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth  | m  | 42 |   |
|    | -----  |    |    |   |
|    | <b><u>THE FOLLOWING IN RECORDING CABINETS</u></b>  |    |    |   |
|    | <b><u>CARPENTRY AND JOINERY (WG126)</u></b>  |    |    |   |
|    | <b><u>Cupboards formed of and including of 16mm thick melamine faced CHIPBOARD in bottoms, sides, backs, tops, shelves and doors; exposed edges of all components in units, including doors and shelves covered with and including 2mm thick PVC edge strips (Colour : Windsor cherry)</u></b> |    |    |   |
| 82 | Recording cabinet, overall size 460 x 460mm x 630mm high, comprising of bottom, sides, back, top and bottom hung projecting out door, 422mm wide x 592mm high  | No | 2  |   |
|    | <b>Carried to Collection</b>   |    |    | R |
|    | Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br>Keimoes Magistrate's office  |    |    |   |

**IRONMONGERY (WG132)**

**Hinges, bolts, etc.**

|    |  |   |   |
|----|--|---|---|
| 83 | 32mm Wide stainless steel piano hinges | m | 1 |
|----|--|---|---|

**Handles**

|    |   |    |   |
|----|---|----|---|
| 84 | Stainless steel (grade 202) barrel handle, 12mm diameter x 112mm long x 33mm high, with concealed bolt-through fixing | No | 2 |
|----|---|----|---|

**Wheels, etc.**

|    |   |    |   |
|----|---|----|---|
| 85 | 50mm Diameter twin castor swivel wheel with square fixing plate | No | 8 |
|----|---|----|---|

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**THE FOLLOWING IN KITCHEN BUILT-IN CUPBOARDS AND DRAWER UNITS**

**WATERPROOFING (WG 120)**

**Approved silicone sealant**

|    |   |   |    |
|----|---|---|----|
| 86 | Between melamine faced chipboard built-in units and adjacent face brick wall surfaces (Provisional) | m | 10 |
|----|---|---|----|

|    |  |   |    |
|----|--|---|----|
| 87 | Between melamine faced chipboard built-in units and adjacent ceramic floor tiles (Provisional) | m | 16 |
|----|--|---|----|

|    |  |   |    |
|----|--|---|----|
| 88 | Between melamine faced chipboard built-in units and adjacent granite top (Provisional) | m | 13 |
|----|--|---|----|

**CARPENTRY AND JOINERY (WG126)**

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINERY FITTINGS  
**Keimoes Magistrate's office**

**Under worktop/counter built-in floor cupboards and drawer units formed of and including of 16mm thick melamine faced CHIPBOARD (colour : Windsor cherry) in 76mm high skirtings and bearers, bottoms, sides, carcasses, shelves, doors and drawers; back of all units covered with and including 3mm thick white hardboard; bottoms of all drawers formed of and including 3mm thick white hardboard; exposed edges of all components in units, including doors, shelves and drawers covered with and including 2mm thick PVC edge strips**

|    |   |    |   |
|----|---|----|---|
| 89 | Single door floor cupboard, size overall 550mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf  | No | 1 |
| 90 | Single door floor cupboard, size overall 557mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf  | No | 1 |
| 91 | Single door floor cupboard, size overall 610mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf  | No | 1 |
| 92 | Single door floor cupboard, size overall 627mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf  | No | 1 |
| 93 | Double door floor cupboard, size overall 855mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf  | No | 1 |
| 94 | Double door floor cupboard, size overall 900mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf  | No | 3 |
| 95 | L-shaped floor <b>corner</b> cupboard, size overall 900mm wide x 900mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> L-shaped shelf and one two-fold door | No | 1 |

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
**Keimoes Magistrate's office**

|  |   |    |   |   |
|--|---|----|---|---|
| 96   | L-shaped floor <b>corner</b> cupboard, size overall 1080mm wide x 900mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <u>one</u> L-shaped shelf and one two-fold door  | No | 1 |   |
| 97   | L-shaped floor <b>corner</b> cupboard, size overall 1094mm wide x 900mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <u>one</u> L-shaped shelf and one two-fold door  | No | 1 |   |
| 98   | <b>Four</b> -drawer floor unit, size overall 350mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); each drawer, approximately 252mm wide x 490mm long x 150mm deep (internal dimensions) with drawer front, 350mm wide x 196mm high | No | 3 |   |
| 99   | <b>Four</b> -drawer floor unit, size overall 445mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); each drawer, approximately 347mm wide x 490mm long x 150mm deep (internal dimensions) with drawer front, 445mm wide x 196mm high | No | 1 |   |
| 100  | <b>Four</b> -drawer floor unit, size overall 450mm wide x 580mm deep x 868mm high from top of floor finish to underside of granite top (elsewhere measured); each drawer, approximately 352mm wide x 490mm long x 150mm deep (internal dimensions) with drawer front, 450mm wide x 196mm high | No | 1 |   |
|  | <b><u>Melamine faced chipboard in isolated components not forming an integral part of built-in cupboard or drawer units (colour : Windsor cherry)</u></b>   |    |   |   |
| 101  | 16mm Thick sides, divisions, shelves, etc.  | m2 | 2 |   |
| 102  | 16mm Thick x 50mm wide rails  | m  | 2 |   |
| 103  | 16mm Thick x 50mm wide rail, plugged  | m  | 3 |   |
| <b>Carried to Collection</b>   |   |    |   | R |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINARY FITTINGS<br><b>Keimoes Magistrate's office</b> |   |    |   |   |

|  |   |          |
|--|---|----------|
| <b><u>Sundries in isolated components not forming an integral part of built-in cupboard or drawer units</u></b>                |   |          |
| 104  | 2mm Thick x 16mm wide PVC edging (Colour : Windsor Cherry)  | m 3      |
| <b><u>IRONMONGERY (WG132)</u></b>  |   |          |
| <b><u>Hinges, bolts, etc.</u></b>  |   |          |
| 105  | 32mm Wide stainless steel piano hinge   | m 2      |
| 106  | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate           | No 30    |
| <b><u>1,2mm Thick self-closing, bottom mounted, epoxy powder coated metal drawer runners, able to carry a load of 25kg</u></b> |   |          |
| 107  | Drawer runners, 500mm long  | Pairs 20 |
| <b><u>Handles</u></b>  |   |          |
| 108  | Stainless steel (grade 202) barrel handle, 12mm diameter x 380mm long x 33mm high, with concealed bolt-through fixing | No 35    |
| -----  |   |          |
| <b><u>THE FOLLOWING IN OFFICE BUILT-IN CUPBOARDS, DRAWER UNITS AND OPEN SHELVING</u></b>                                       |   |          |
| <b><u>WATERPROOFING (WG 120)</u></b>   |   |          |
| <b><u>Approved silicone sealant</u></b>  |   |          |
| 109  | Between melamine faced chipboard built-in units and adjacent face brick wall surfaces (Provisional)                   | m 25     |
| 110  | Between melamine faced chipboard built-in units and adjacent ceramic floor tiles (Provisional)                        | m 19     |
| 111  | Between melamine faced chipboard built-in units and adjacent granite top (Provisional)                                | m 24     |
| <b><u>CARPENTRY AND JOINERY (WG126)</u></b>  |   |          |
| <b>Carried to Collection</b>   |   | R        |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br>Keimoes Magistrate's office                                |   |          |



| <b><u>Wrought softwood</u></b>   |   |    |   |   |
|--|---|----|---|---|
| 112  | 38 x 50mm Rail  | m  | 3 |   |
| 113  | 38 x 50mm Rail, plugged   | m  | 3 |   |
| 114  | 38 x 76mm Rail  | m  | 5 |   |
| 115  | 38 x 76mm Rail, plugged   | m  | 4 |   |
| 116  | 38 x 118mm Rail   | m  | 3 |   |
| <b><u>Under worktop built-in floor cupboards and drawer units formed of and including of 16mm thick melamine faced chipboard in 76mm high bearers, 76mm high skirtings, bottoms, sides, carcasses, shelves, doors and drawers; back of all units covered with and including 3mm thick white hardboard; bottoms of all drawers formed of and including 3mm thick white hardboard; exposed edges of all components in units, including doors, shelves and drawers covered with and including 2mm thick PVC edge strips (Colour : Windsor cherry)</u></b> |   |    |   |   |
| 117  | Single door floor cupboard, size overall 900mm wide x 420mm deep x 685mm high from top of floor finish to underside of timber box for transaction drawers (timber box and transaction drawers elsewhere measured); cupboard fitted with <b>one</b> shelf and <b>one</b> drawer; door, approximately 900mm wide x 367mm high and drawer, approximately 802mm wide x 350mm long x 190mm deep (internal dimensions) with drawer front, 900mm wide x 240mm high | No | 1 |   |
| 118  | Single door floor cupboard, size overall 450mm wide x 350mm deep x 728mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf and <b>one</b> drawer; door, approximately 450mm wide x 485mm high and drawer, approximately 352mm wide x 280mm long x 110mm deep (internal dimensions) with drawer front, 450mm wide x 167mm high   | No | 2 |   |
| <b>Carried to Collection</b>   |   |    |   | R |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br>Keimoes Magistrate's office  |   |    |   |   |

|     |  |    |   |   |
|-----|--|----|---|---|
| 119 | Single door floor cupboard, size overall 450mm wide x 580mm deep x 728mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>one</b> shelf and <b>one</b> drawer; door, approximately 450mm wide x 485mm high and drawer, approximately 352mm wide x 510mm long x 110mm deep (internal dimensions) with drawer front, 450mm wide x 167mm high  | No | 9 |   |
| 120 | Single door floor cupboard, size overall 500mm wide x 910mm deep x 842mm high from top of floor finish to underside of timber box for transaction drawer (timber box and transaction drawer elsewhere measured); cupboard fitted with <b>one</b> shelf and <b>one</b> drawer; door approximately 500mm wide x 518mm high and drawer, approximately 402mm wide x 700mm long x 190mm deep (internal dimensions) with drawer front, 500mm wide x 243mm high | No | 1 |   |
| 121 | Double door floor cupboard, size overall 850mm wide x 580mm deep x 1074mm high from top of floor finish to underside of granite top (elsewhere measured); cupboard fitted with <b>two</b> shelves  | No | 1 |   |
| 122 | <b>Six</b> -drawer floor unit, size overall 450mm wide x 580mm deep x 1074mm high from top of floor finish to underside of granite top (elsewhere measured); each drawer, approximately 352mm wide x 510mm long x 110mm deep (internal dimensions) with drawer front, 450mm wide x 167mm high  | No | 1 |   |
|     | <b><u>Melamine faced chipboard in isolated components not forming an integral part of built-in cupboard or drawer units (Colour : Windsor Cherry)</u></b>  |    |   |   |
| 123 | 16mm Thick bases, sides, divisions, shelves, etc.  | m2 | 4 |   |
| 124 | 16mm Thick x 137mm high fascias  | m  | 2 |   |
| 125 | 16mm Thick x 227mm high fascias  | m  | 2 |   |
|     | <b><u>Sundries in isolated components not forming an integral part of built-in cupboard or drawer units</u></b>  |    |   |   |
| 126 | 2mm Thick x 16mm wide PVC edging (Colour : Windsor cherry)   | m  | 6 |   |
|     | <b>Carried to Collection</b>   |    |   | R |
|     | Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br><b>Keimoes Magistrate's office</b>   |    |   |   |

**IRONMONGERY (WG132)**

**Hinges, bolts, etc.**

|     |   |    |    |
|-----|---|----|----|
| 127 | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate | No | 30 |
|-----|---|----|----|

**1,2mm Thick self-closing, bottom mounted, epoxy powder coated metal drawer runners, able to carry a load of 25kg**

|     |                            |       |   |
|-----|----------------------------|-------|---|
| 128 | Drawer runners, 300mm long | Pairs | 2 |
|-----|----------------------------|-------|---|

|     |                            |       |   |
|-----|----------------------------|-------|---|
| 129 | Drawer runners, 350mm long | Pairs | 1 |
|-----|----------------------------|-------|---|

|     |                            |       |   |
|-----|----------------------------|-------|---|
| 130 | Drawer runners, 400mm long | Pairs | 1 |
|-----|----------------------------|-------|---|

|     |                            |       |    |
|-----|----------------------------|-------|----|
| 131 | Drawer runners, 500mm long | Pairs | 14 |
|-----|----------------------------|-------|----|

|     |                            |       |   |
|-----|----------------------------|-------|---|
| 132 | Drawer runners, 550mm long | Pairs | 1 |
|-----|----------------------------|-------|---|

**Handles**

|     |   |    |    |
|-----|---|----|----|
| 133 | Stainless steel (grade 202) barrel handle, 12mm diameter x 380mm long x 33mm high, with concealed bolt-through fixing | No | 34 |
|-----|---|----|----|

**PAINTWORK (WG 152)**

**Stain and three coats matt polyurethane varnish on wood**

|     |   |   |   |
|-----|---|---|---|
| 134 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth | m | 8 |
|-----|---|---|---|

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**THE FOLLOWING IN BUILT-IN WALL UNITS**

A wall unit comprises of a floor cupboard and a wall mounted open shelf unit above.

**WATERPROOFING (WG 120)**

**Carried to Collection**

R

Section No. 2  
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|  |   |    |    |
|--|---|----|----|
| <b><u>Approved silicone sealant</u></b>  |   |    |    |
| 135  | Between melamine faced chipboard and supawood built-in units and adjacent plastered wall surfaces (Provisional)   | m  | 14 |
| 136  | Between melamine faced chipboard built-in units and adjacent ceramic floor tiles (Provisional)  | m  | 4  |
| <b><u>CARPENTRY AND JOINERY (WG126)</u></b>  |   |    |    |
| <b><u>Under worktop built-in floor cupboards formed of and including 16mm thick melamine faced SUPAWOOD (colour : pearwood) in 50mm high bearers and skirtings, 16mm thick melamine faced CHIPBOARD (colour : black) in bottoms, sides, backs and carcasses and 16mm thick melamine faced CHIPBOARD (colour : pearwood) in shelves and doors; exposed edges of all components in units, including shelves BUT EXCLUDING doors covered with and including 2mm thick PVC edge strips; exposed edges to doors covered with and including natural anodised aluminium U-section</u></b> |   |    |    |
| 137  | Double door floor cupboard, size overall 898mm wide x 368mm deep x 728mm high from top of floor finish to underside of melamine faced worktop (elsewhere measured); cupboard fitted with <b>one</b> shelf | No | 4  |
| <b><u>Built-in open shelving unit formed of and including 16mm thick melamine faced CHIPBOARD (colour : black) in back and 32mm thick melamine faced SUPAWOOD (colour : black) in sides and divisions and 32mm thick melamine faced SUPAWOOD (colour : pearwood) in shelves; exposed edges to backs and shelves covered with and including 2mm thick PVC edge strips; exposed edges to divisions and sides covered with and including natural anodised aluminium U-section</u></b>   |   |    |    |
| 138  | Wall mounted open shelf unit, size overall 1796mm wide x 300mm deep x 1328mm high, comprising of one division and three rows of shelving  | No | 2  |
| <b><u>Work tops / Counter tops of melamine faced SUPAWOOD (Colour : Black)</u></b>   |   |    |    |
| 139  | 32mm Thick work top and/or counter top,400mm wide   | m  | 4  |
| <b>Carried to Collection</b>   |   |    |    |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br>Keimoes Magistrate's office  |   |    | R  |

|   |   |    |    |
|---|---|----|----|
| <b><u>Sundries in isolated components not forming an integral part of built-in cupboard or shelf unit</u></b> |   |    |    |
| 140   | 2mm Thick x 32mm wide PVC edging (Colour : Black)   | m  | 4  |
| <b><u>IRONMONGERY (WG132)</u></b>   |   |    |    |
| <b><u>Hinges, bolts, etc.</u></b>   |   |    |    |
| 141   | Chrome plate barrel bolt, 50mm long   | No | 8  |
| 142   | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate           | No | 16 |
| <b><u>Handles</u></b>   |   |    |    |
| 143   | Stainless steel (grade 202) barrel handle, 12mm diameter x 380mm long x 33mm high, with concealed bolt-through fixing | No | 8  |
| <b><u>Locks</u></b>   |   |    |    |
| 144   | "Union 452-22" or other approved 22mm nickel plated cylinder cupboard door lock                                       | No | 4  |
| <b><u>ALUMINIUM (WG 149)</u></b>  |   |    |    |
| <b><u>Natural anodised aluminium</u></b>  |   |    |    |
| 145   | 2mm Thick Flat section cladding, 50mm high  | m  | 4  |
| -----   |   |    |    |
| <b><u>THE FOLLOWING IN TOGA CUPBOARDS</u></b>   |   |    |    |
| <b><u>WATERPROOFING (WG 120)</u></b>  |   |    |    |
| <b><u>Approved silicone sealant</u></b>   |   |    |    |
| 146   | Between melamine faced chipboard and supawood built-in units and adjacent plastered wall surfaces (Provisional)       | m  | 36 |
| 147   | Between melamine faced chipboard built-in units and adjacent ceramic floor tiles (Provisional)                        | m  | 13 |
| <b><u>CARPENTRY AND JOINERY (WG126)</u></b>   |   |    |    |
| <b>Carried to Collection</b>  |   |    | R  |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINARY FITTINGS<br><b>Keimoes Magistrate's office</b>        |   |    |    |

**Built-in cupboards formed of and including 16mm thick melamine faced SUPAWOOD in 76mm high bearers and skirtings, 16mm thick melamine faced CHIPBOARD in bottoms, sides, tops, backs, carcasses and doors; exposed edges of all components EXCLUDING doors covered with and including 2mm thick PVC edge strips; exposed edges to doors covered with and including natural anodised aluminium U-section**

|     |  |    |   |
|-----|--|----|---|
| 148 | Single door cupboard, size overall 400mm wide x 600mm deep x 2040mm high from top of floor finish to top of cupboard; cupboard fitted with one shelf | No | 8 |
|-----|--|----|---|

**IRONMONGERY (WG132)**

**Hinges, bolts, etc.**

|     |   |    |    |
|-----|---|----|----|
| 149 | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate | No | 32 |
|-----|---|----|----|

**Handles**

|     |   |    |   |
|-----|---|----|---|
| 150 | Stainless steel (grade 202) barrel handle, 12mm diameter x 380mm long x 33mm high, with concealed bolt-through fixing | No | 8 |
|-----|---|----|---|

**Locks**

|     |   |    |   |
|-----|---|----|---|
| 151 | "Union 452-22" or other approved 22mm nickel plated cylinder cupboard door lock | No | 8 |
|-----|---|----|---|

**Rails, etc.**

|     |  |    |   |
|-----|--|----|---|
| 152 | 20 x 35mm Natural anodised aluminium oval hanging rail, 368mm long, including two rail holders | No | 8 |
|-----|--|----|---|

-----

**THE FOLLOWING IN FOUR (4) BUILT-IN WORK STATIONS**

A work station comprises of built-in floor cupboards, drawer units, worktops over cupboards and drawer units and worktops supported on L-shaped timber board legs

**WATERPROOFING (WG 120)**

**Carried to Collection**

R

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|  |  |    |    |   |
|--|--|----|----|---|
| <b><u>Approved silicone sealant</u></b>  |  |    |    |   |
| 153  | Between melamine faced chipboard and supawood built-in units and adjacent plastered wall surfaces (Provisional)  | m  | 17 |   |
| 154  | Between melamine faced chipboard built-in units and adjacent ceramic floor tiles (Provisional)   | m  | 7  |   |
| <b><u>CARPENTRY AND JOINERY (WG126)</u></b>  |  |    |    |   |
| <b><u>Under worktop built-in floor cupboards formed of and including 16mm thick melamine faced SUPAWOOD (colour : pearwood) in 50mm high bearers and skirtings, 16mm thick melamine faced CHIPBOARD (colour : black) in bottoms, sides, backs and carcasses and 16mm thick melamine faced CHIPBOARD (colour : pearwood) in shelves and doors; exposed edges of all components in units, including shelves BUT EXCLUDING doors covered with and including 2mm thick PVC edge strips; exposed edges to doors covered with and including natural anodised aluminium U-section</u></b> |  |    |    |   |
| 155  | Double door floor cupboard, size overall 864mm wide x 566mm deep x 728mm high from top of floor finish to underside of worktop; unit fitted with <b><u>one</u></b> shelf                                     | No | 1  |   |
| 156  | Double door floor cupboard, size overall 1211mm wide x 566mm deep x 728mm high from top of floor finish to underside of worktop; unit fitted with <b><u>one</u></b> shelf                                    | No | 1  |   |
| 157  | L-shaped floor corner cupboard, size overall 900mm x 900mm wide x 566mm deep x 728mm high from top of floor finish to underside of worktop; ; unit fitted with <b><u>one</u></b> shelf and one two-fold door | No | 2  |   |
| <b>Carried to Collection</b>   |  |    |    |   |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br><b>Keimoes Magistrate's office</b>   |  |    |    | R |

|   |  |      |
|---|--|------|
| <p><b><u>Built-in floor cupboards and drawer units formed of and including 16mm thick melamine faced SUPAWOOD (colour : pearwood) in 50mm high bearers and skirtings, 32mm thick melamine faced SUPAWOOD (colour : pearwood) in bottoms, tops and backs, 16mm thick melamine faced CHIPBOARD (colour : black) in sides, bottom linings and carcasses, and 16mm thick melamine faced CHIPBOARD (colour : pearwood) in doors and drawers; exposed edges of all components in units EXCLUDING doors and drawer fronts covered with and including 2mm thick PVC edge strips; exposed edges to doors and drawer fronts covered with and including natural anodised aluminium U-section</u></b></p> |  |      |
| 158   | Single door floor cupboard with bottom lining and drawer, size overall 470mm wide x 536mm deep x 678mm high from top of floor finish to top of cupboard; cupboard fitted with <b>one</b> drawer; door, approximately 470mm wide x 370mm high and drawer, approximately 355mm wide x 404mm long x 140mm deep (internal dimensions) with drawer front, 460mm wide x 175mm high             | No 2 |
| 159   | Single door floor cupboard with bottom lining and drawer, size overall 470mm wide x 600mm deep x 678mm high from top of floor finish to top of cupboard/drawer unit; cupboard fitted with <b>one</b> drawer; door, approximately 434mm wide x 370mm high and drawer, approximately 355mm wide x 490mm long x 140mm deep (internal dimensions) with drawer front, 460mm wide x 175mm high | No 2 |
| <p><b><u>Work tops / Counter tops of melamine faced SUPAWOOD (Colour : Pearwood)</u></b></p>  |  |      |
| 160   | 32mm Thick work top and/or counter top, 600mm wide   | m 13 |
| 161   | 32mm Thick work top and/or counter top, 700mm wide   | m 3  |
| <p><b><u>Melamine faced CHIPBOARD in isolated components not forming an integral part of built-in cupboard or drawer units (Colour : Black)</u></b></p>   |  |      |
| 162   | 16mm Thick x 50mm high rail  | m 1  |
| <p><b>Carried to Collection</b></p>   |  | R    |
| <p>Section No. 2<br/>         BUILDING WORK<br/>         Bill No. 8<br/>         JOINARY FITTINGS<br/> <b>Keimoes Magistrate's office</b></p>   |  |      |



|   |   |       |    |
|---|---|-------|----|
| <b><u>Melamine faced SUPAWOOD in isolated components not forming an integral part of built-in cupboard or drawer units (colour : pearwood)</u></b>  |   |       |    |
| 163   | 32mm Thick x 50mm high rail   | m     | 3  |
| 164   | 32mm Thick x 50mm high rail, plugged  | m     | 9  |
| 165   | 32mm Thick x 50mm high fascias  | m     | 18 |
| <b><u>Melamine faced SUPAWOOD in isolated components not forming an integral part of built-in cupboard or drawer units (colour : black)</u></b>     |   |       |    |
| 166   | 32mm Thick sides, divisions, shelves, etc.  | m2    | 3  |
| <b><u>Melamine faced SUPAWOOD in isolated components not forming an integral part of built-in cupboard or drawer units (Colour : Microchip)</u></b> |   |       |    |
| 167   | 32mm Thick sides, divisions, shelves, etc.  | m2    | 3  |
| <b><u>Sundries in isolated components not forming an integral part of built-in cupboard or drawer units</u></b>                                     |   |       |    |
| 168   | 32mm wide PVC profile edging (Colour : Black)   | m     | 22 |
| <b><u>IRONMONGERY (WG132)</u></b>   |   |       |    |
| <b><u>Hinges, bolts, etc.</u></b>   |   |       |    |
| 169   | Chrome plate barrel bolt, 50mm long   | No    | 8  |
| 170   | Stainless steel piano hinge, 32mm wide  | m     | 1  |
| 171   | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate | No    | 20 |
| <b><u>1,2mm Thick self-closing, bottom mounted, epoxy powder coated metal drawer runners, able to carry a load of 25kg</u></b>                      |   |       |    |
| 172   | Drawer runners, 400mm long  | Pairs | 2  |
| 173   | Drawer runners, 450mm long  | Pairs | 2  |
| <b>Carried to Collection</b>  |   |       | R  |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINARY FITTINGS<br><b>Keimoes Magistrate's office</b>  |   |       |    |

**Handles**

|     |   |    |   |
|-----|---|----|---|
| 174 | Stainless steel (grade 202) barrel handle, 12mm diameter x 316mm long x 33mm high, with concealed bolt-through fixing | No | 4 |
|-----|---|----|---|

|     |   |    |    |
|-----|---|----|----|
| 175 | Stainless steel (grade 202) barrel handle, 12mm diameter x 380mm long x 33mm high, with concealed bolt-through fixing | No | 10 |
|-----|---|----|----|

**Locks**

|     |   |    |   |
|-----|---|----|---|
| 176 | "Union 452-22" or other approved 22mm nickel plated cylinder cupboard door lock | No | 8 |
|-----|---|----|---|

|     |   |    |   |
|-----|---|----|---|
| 177 | "Union 457-22" or other approved 22mm nickel plated cylinder drawer door lock | No | 4 |
|-----|---|----|---|

**ALUMINIUM (WG 149)**

**Natural anodised aluminium**

|     |   |   |    |
|-----|---|---|----|
| 178 | 50mm Wide x 2mm thick flat section cover plate/skirting/clading | m | 24 |
|-----|---|---|----|

|     |   |   |    |
|-----|---|---|----|
| 179 | 27.4mm x 36mm x 27.4mm U-channel section edging | m | 32 |
|-----|---|---|----|

|     |  |   |   |
|-----|--|---|---|
| 180 | 27.4mm x 36mm x 27.4mm U-channel section edging, plugged | m | 3 |
|-----|--|---|---|

|     |  |    |    |
|-----|--|----|----|
| 181 | 50 x 50 x 2mm Thick angle section bracket, 50mm long | No | 16 |
|-----|--|----|----|

**Sundries**

|     |   |    |    |
|-----|---|----|----|
| 182 | 6mm Diameter galvanised bolt, approximately 124mm long, comprising of and including one 6mm diameter galvanised threaded rod, two nickel plated dome nuts and washers | No | 12 |
|-----|---|----|----|

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**THE FOLLOWING IN TWO (2) BUILT-IN MAGISTRATE BENCHES**

**WATERPROOFING (WG 120)**

**Carried to Collection**

R

Section No. 2  
 BUILDING WORK  
 Bill No. 8  
 JOINARY FITTINGS  
**Keimoes Magistrate's office**

|     |   |    |    |   |
|-----|---|----|----|---|
|     | <b><u>Approved silicone sealant</u></b>   |    |    |   |
| 183 | Between melamine faced chipboard and supawood built-in units and adjacent plastered wall surfaces (Provisional) | m  | 6  |   |
|     | <b><u>CARPENTRY AND JOINERY (WG126)</u></b>   |    |    |   |
|     | <b><u>Wrought softwood</u></b>  |    |    |   |
| 184 | 38 x 76mm Frame   | m  | 3  |   |
|     | <b><u>Wrought softwood puttied, evened and smoothed on all faces</u></b>  |    |    |   |
| 185 | 19 x 76mm Rail  | m  | 9  |   |
| 186 | 38 x 76mm Frame   | m  | 54 |   |
| 187 | 38 x 76mm Frame, plugged  | m  | 16 |   |
|     | <b><u>Wrought hardwood</u></b>  |    |    |   |
| 188 | 19 x 76mm High skirting   | m  | 22 |   |
| 189 | 32mm Thick x 114mm wide top   | m  | 9  |   |
|     | <b><u>Chipboard</u></b>   |    |    |   |
| 190 | 16mm Thick bottoms, sides, backs, divisions, shelves, cladding, etc.  | m2 | 3  |   |
|     | <b><u>Melamine faced chipboard (Colour : Black)</u></b>   |    |    |   |
| 191 | 16mm Thick bottoms, sides, backs, divisions, shelves, cladding, etc.  | m2 | 6  |   |
| 192 | 32mm Thick worktop, 600mm wide, with bull nosed edge on one side  | m  | 9  |   |
|     | <b><u>Melamine faced chipboard (Colour : Windsor cherry)</u></b>  |    |    |   |
| 193 | 16mm Thick bottoms, sides, backs, divisions, shelves, cladding, etc.  | m2 | 32 |   |
|     | <b>Carried to Collection</b>  |    |    | R |
|     | Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br>Keimoes Magistrate's office                 |    |    |   |

|  |   |       |     |   |
|--|---|-------|-----|---|
| 194  | Door, 673mm wide x 725mm high; exposed edges covered all round with and including 2mm thick x 16mm wide PVC edge strip of matching colour   | No    | 4   |   |
| 195  | Drawer, approximately 290mm wide x 405mm long x 60mm deep (internal dimensions) with drawer front, 390mm wide x 110mm high; sides, back and drawer front formed of and including 16mm thick melamine faced chipboard and bottom of 3mm thick white hardboard; exposed edges of 16mm chipboard covered with and including 2mm thick x 16mm wide PVC edge strips of matching colour | No    | 8   |   |
| <b><u>Fibreglass or mineral wool insulation</u></b>  |   |       |     |   |
| 196  | 50mm Thick insulation closely fitted in cavity between melamine faced chipboard skins   | m2    | 7   |   |
| 197  | 75mm Thick insulation closely fitted in cavity between melamine faced chipboard skins   | m2    | 2   |   |
| <b><u>Sundries</u></b>   |   |       |     |   |
| 198  | 2mm Thick x 16mm wide PVC edging (Colour : Black)   | m     | 127 |   |
| 199  | 2mm Thick x 16mm wide PVC edging (Colour : Pearwood)  | m     | 38  |   |
| 200  | 2mm Thick x 32mm wide PVC edging (Colour : Black)   | m     | 2   |   |
| <b><u>IRONMONGERY (WG132)</u></b>  |   |       |     |   |
| <b><u>Hinges, bolts, etc.</u></b>  |   |       |     |   |
| 201  | Chrome plated 110 degree concealed slide-on or clip-on soft close hinge, including four-hole mounting plate   | No    | 8   |   |
| <b><u>1,2mm Thick self-closing, bottom mounted, epoxy powder coated metal drawer runners, able to carry a load of 25kg</u></b> |   |       |     |   |
| 202  | Drawer runners, 400mm long  | Pairs | 8   |   |
| <b>Carried to Collection</b>   |   |       |     | R |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br><b>Keimoes Magistrate's office</b>                         |   |       |     |   |

|  |   |    |    |   |
|--|---|----|----|---|
| <b><u>Handles</u></b>  |   |    |    |   |
| 203  | Stainless steel (grade 202) barrel handle, 12mm diameter x 112mm long x 33mm high, with concealed bolt-through fixing | No | 12 |   |
| <b><u>Locks</u></b>  |   |    |    |   |
| 204  | "Union 427-64" or other approved 64mm four-lever brass plated mild steel cupboard lock                                | No | 4  |   |
| 205  | "Union 427-76" or other approved 76mm four-lever brass plated mild steel cupboard lock (used for drawers)             | No | 8  |   |
| <b><u>Escutcheons</u></b>  |   |    |    |   |
| 206  | 28mm Diameter anodised silver escutcheon  | No | 12 |   |
| <b><u>PAINTWORK (WG 152)</u></b>   |   |    |    |   |
| <b><u>Three coats matt polyurethane varnish on wood</u></b>  |   |    |    |   |
| 207  | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth   | m  | 31 |   |
| <b><u>Stain and three coats matt polyurethane varnish on wood</u></b>                                  |   |    |    |   |
| 208  | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth   | m  | 55 |   |
| -----  |   |    |    |   |
| <b><u>THE FOLLOWING IN TWO (2) BUILT-IN WITNESS BOXES</u></b>  |   |    |    |   |
| <b><u>CARPENTRY AND JOINERY (WG126)</u></b>  |   |    |    |   |
| <b><u>Wrought softwood</u></b>   |   |    |    |   |
| 209  | 38 x 50mm Frame   | m  | 7  |   |
| 210  | 50 x 50mm Frame   | m  | 7  |   |
| 211  | 50 x 152mm Bearers, plugged   | m  | 12 |   |
| <b>Carried to Collection</b>   |   |    |    | R |
| Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br><b>Keimoes Magistrate's office</b> |   |    |    |   |

|  |  |    |    |
|--|--|----|----|
| <b><u>Wrought softwood puttied, evened and smoothed on all faces</u></b>                               |  |    |    |
| 212  | 38 x 50mm Frame  | m  | 5  |
| 213  | 50 x 50mm Frame  | m  | 14 |
| 214  | 50 x 76mm Frame  | m  | 4  |
| 215  | 50 x 152mm Bearers, plugged  | m  | 11 |
| <b><u>Wrought hardwood</u></b>   |  |    |    |
| 216  | 74mm Thick x 215mm wide top, once rebated  | m  | 4  |
| <b><u>Laminated pine</u></b>   |  |    |    |
| 217  | 32mm Thick bench seat, 300mm wide, once angle rounded  | m  | 2  |
| 218  | 32mm Thick bench legs, 300mm wide, twice angle rounded   | m  | 2  |
| <b><u>Melamine faced chipboard (Colour : Windsor cherry)</u></b>                                       |  |    |    |
| 219  | 16mm Thick cladding  | m2 | 17 |
| 220  | 16mm Thick x 76mm high skirting  | m  | 12 |
| <b><u>Wrought pine tongue and groove flooring</u></b>  |  |    |    |
| 221  | 20mm Thick x 102mm wide tongued and grooved boarding on timber bearers (elsewhere measured)  | m2 | 3  |
| 222  | Floor access panel, 150mm wide x 900mm long, formed of and including single length 20mm thick x 102mm wide tongued and grooved boarding glued together | No | 4  |
| 223  | Cut hole, 150mm wide x 900mm long, in 20mm thick tongue and groove floor boarding  | No | 4  |
| <b><u>Fibreglass or mineral wool insulation</u></b>  |  |    |    |
| 224  | 50mm Thick insulation in cavity between melamine faced chipboard skins in cladding   | m2 | 7  |
| <b>Carried to Collection</b>   |  |    | R  |
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|     |  |    |    |   |
|-----|--|----|----|---|
|     | <b><u>Sundries</u></b>   |    |    |   |
| 225 | 2mm Thick x 16mm wide PVC edging (Colour : Windsor cherry)   | m  | 81 |   |
|     | <b><u>FLOOR COVERINGS (WG 130)</u></b>   |    |    |   |
|     | <b><u>500 x 500mm x 8.5mm Thick heavy commercial, PP, structured needle punched colour fast carpet tiles with stainproof polypropylene fibre, bitumen backing, fire index of 3, electrostatic propensity of less than 2.0kV and fibre mass of 920g/m<sup>2</sup></u></b> |    |    |   |
| 226 | On floors  | m2 | 3  |   |
|     | <b><u>PAINTWORK (WG 152)</u></b>   |    |    |   |
|     | <b><u>Three coats matt polyurethane varnish on wood</u></b>  |    |    |   |
| 227 | On fittings  | m2 | 5  |   |
|     | <b><u>Stain and three coats matt polyurethane varnish on wood</u></b>  |    |    |   |
| 228 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth  | m  | 34 |   |
|     | -----  |    |    |   |
|     | <b><u>THE FOLLOWING IN TWO (2) BUILT-IN DOCKS</u></b>  |    |    |   |
|     | <b><u>WATERPROOFING (WG 120)</u></b>   |    |    |   |
|     | <b><u>Approved silicone sealant</u></b>  |    |    |   |
| 229 | Between melamine faced chipboard built-in units and adjacent face brick wall surfaces (Provisional)  | m  | 4  |   |
|     | <b><u>CARPENTRY AND JOINERY (WG126)</u></b>  |    |    |   |
|     | <b><u>Wrought softwood</u></b>   |    |    |   |
| 230 | 25 x 50mm Frame  | m  | 7  |   |
| 231 | 38 x 50mm Frame  | m  | 22 |   |
| 232 | 50 x 50mm Frame  | m  | 29 |   |
|     | <b>Carried to Collection</b>   |    |    | R |
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|     |  |    |    |
|-----|--|----|----|
| 233 | 50 x 152mm Bearers, plugged  | m  | 36 |
|     | <b><u>Wrought softwood puttied, evened and smoothed on all faces</u></b>   |    |    |
| 234 | 38 x 50mm Frame  | m  | 11 |
| 235 | 50 x 50mm Frame  | m  | 7  |
| 236 | 50 x 76mm Frame  | m  | 11 |
| 237 | 50 x 152mm Bearers, plugged  | m  | 24 |
|     | <b><u>Wrought hardwood</u></b>   |    |    |
| 238 | 74mm Thick x 215mm wide top, once rebated  | m  | 11 |
| 239 | 52 x 88mm Frame, once rebated  | m  | 2  |
| 240 | 52 x 88mm Frame, once rebated, plugged   | m  | 2  |
|     | <b><u>Laminated pine</u></b>   |    |    |
| 241 | 32mm Thick bench seat, 300mm wide, once angle rounded  | m  | 10 |
| 242 | 32mm Thick bench legs, 300mm wide, twice angle rounded   | m  | 5  |
|     | <b><u>Melamine faced chipboard (Colour : Windsor cherry)</u></b>   |    |    |
| 243 | 16mm Thick cladding  | m2 | 45 |
| 244 | 16mm Thick x 76mm high skirting  | m  | 25 |
| 245 | 32mm Thick door, 602mm wide x 760mm high; formed of and including two layers of 16mm thick boards; exposed edges covered all round with and including 32mm thick x 50mm deep wrought hardwood edge | No | 2  |
| 246 | 32mm Thick door, 938mm wide x 960mm high; formed of and including two layers of 16mm thick boards; exposed edges covered all round with and including 32mm thick x 50mm deep wrought hardwood edge | No | 2  |

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|  |  |    |     |   |
|--|--|----|-----|---|
| <b><u>Wrought pine tongue and groove flooring</u></b>  |  |    |     |   |
| 247  | 20mm Thick x 102mm wide tongued and grooved boarding on timber bearers (elsewhere measured)  | m2 | 9   |   |
| 248  | Floor access panel, 150mm wide x 800mm long, formed of and including single length 20mm thick x 102mm wide tongued and grooved boarding glued together | No | 12  |   |
| 249  | Cut hole, 150mm wide x 800mm long, in 22mm thick tongue and groove floor boarding  | No | 12  |   |
| <b><u>Fibreglass or mineral wool insulation</u></b>  |  |    |     |   |
| 250  | 50mm Thick insulation in cavity between melamine faced chipboard skins in cladding   | m2 | 16  |   |
| <b><u>Sundries</u></b>   |  |    |     |   |
| 251  | 2mm Thick x 16mm wide PVC edging (Colour : Windsor cherry)   | m  | 139 |   |
| 252  | 3mm Thick x 10mm wide rubber strip   | m  | 3   |   |
| <b><u>FLOOR COVERINGS (WG 130)</u></b>   |  |    |     |   |
| <b><u>500 x 500mm x 8.5mm Thick heavy commercial, PP, structured needle punched colour fast carpet tiles with stainproof polypropylene fibre, bitumen backing, fire index of 3, electrostatic propensity of less than 2.0kV and fibre mass of 920g/m<sup>2</sup></u></b> |  |    |     |   |
| 253  | On floors  | m2 | 9   |   |
| <b><u>IRONMONGERY (WG132)</u></b>  |  |    |     |   |
| <b><u>Hinges, bolts, etc.</u></b>  |  |    |     |   |
| 254  | 50mm wide x 75mm High stainless steel butt hinges  | m  | 8   |   |
| <b><u>METALWORK (WG 136)</u></b>   |  |    |     |   |
| <b><u>Welded mild steel columns bolted to concrete</u></b>   |  |    |     |   |
| 255  | 50 x 50 x 2mm Hollow section column  | m  | 6   |   |
| 256  | 250 x 250 x 5mm Thick base plate, four times holed   | No | 6   |   |
| <b>Carried to Collection</b>   |  |    |     |   |
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|     |  |    |      |   |           |
|-----|--|----|------|---|-----------|
| 257 | Hole through both skins of 50 x 50 x 2mm thick hollow section column   | No | 24   |   |           |
|     | <b><u>Bolts</u></b>  |    |      |   |           |
| 258 | Bolts  | kg | 2    |   |           |
| 259 | 10mm Diameter expansion bolts  | No | 24   |   |           |
|     | <b><u>Glass partition</u></b>  |    |      |   |           |
| 260 | Provide the sum of R65,000.00 (Sixty Five Thousand Rand) net for the provision of a glass partition between dock and public benches                          |    | Item |   | 65,000.00 |
| 261 | Allow for profit   |    |      | % |           |
| 262 | Allow for attendance   |    |      | % |           |
|     | <b><u>PAINTWORK (WG 152)</u></b>   |    |      |   |           |
|     | <b><u>One coat primer on ferrous metal</u></b>   |    |      |   |           |
| 263 | On rails, bars, pipes, etc.  | m2 | 1    |   |           |
|     | <b><u>One coat zinc phosphate alkyd resin primer, one coat universal alkyd based undercoat and two coats high quality alkyd based gloss enamel paint</u></b> |    |      |   |           |
| 264 | On rails, bars, pipes, etc not exceeding 300 mm girth  | m  | 6    |   |           |
|     | <b><u>Three coats matt polyurethane varnish on wood</u></b>  |    |      |   |           |
| 265 | On fittings  | m2 | 15   |   |           |
| 266 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth  | m  | 17   |   |           |
|     | <b><u>Stain and three coats matt polyurethane varnish on wood</u></b>  |    |      |   |           |
| 267 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth  | m  | 53   |   |           |
|     | <b>Carried to Collection</b>   |    |      |   | R         |
|     | Section No. 2<br>BUILDING WORK<br>Bill No. 8<br>JOINERY FITTINGS<br><b>Keimoes Magistrate's office</b>   |    |      |   |           |

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| <p><b><u>SECTION NO. 2</u></b></p>   |          |      |        |
| <p><b><u>BILL NO. 9</u></b></p>  |          |      |        |
| <p><b><u>CEILINGS, PARTITIONS AND ACCESS FLOORING</u></b></p>  |          |      |        |
| <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 129 for JBCC CPAP purposes</p>  |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>   |          |      |        |
| <p><b><u>Descriptions:</u></b></p>   |          |      |        |
| <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete</p>   |          |      |        |
| <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted" the bolts have been given elsewhere</p> |          |      |        |
| <p><b>Carried to Collection</b></p>  |          |      |        |
| <p>Section No. 2<br/>           BUILDING WORK<br/>           Bill No. 9<br/>           CEILINGS, PARTITIONS AND ACCESS FLOORING<br/> <b>Keimoes Magistrate's office</b></p>                                  |          | R    |        |

**Suspended ceiling system**

The ceiling tiles shall be manufactured of gypsum board with a tough washable vinyl finish bonded to the gypsum board. The ceiling tiles shall be non-combustible according to SABS 0400/14990 PAR TT57.2 (National Building Regulations - Non-combustible building material).

The ceiling tiles shall have the following technical data :

- dimensional tolerance : 0-5mm
- a fire index rating of 4 (SABS report no. 653/82916/94C)
- R-value of 0.075m<sup>2</sup>c/w
- spread of flame : Class 1
- thermal conductivity : (K) 0.17W/mC

**All ceiling tiles shall be hold firmly in position with and including hold down clips.**

The suspension grid shall be an exposed grid system, comprising of and including main tees and cross tees with capping of aluminium pre-painted low sating sheen, 2.5mm diameter pre-stretched galvanised hanger wire, 19mm steel hanger straps, galvanised wall angles and hold down clips.

The suspended ceiling system shall be installed in accordance with the manufacturer's instructions.

**Rates for melamine faced nailed-up ceilings shall be deemed to include the following :**

1. Melamine faced chipboard manufactured in accordance with SANS 50312 : 2015 (EN 312 : 2010) (P2) and EN 14322 : 2017 (Table 1)
2. Melamine faced chipboard, comprising of chipboard covered on both faces with 1mm thick melamine-impregnated décor paper
3. Melamine surfaces to be durable and scratch and moisture resistant

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**NAILED CEILINGS**

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|  |   |        |
|--|---|--------|
| <b><u>Sawn softwood (grade 8)</u></b>  |   |        |
| 1  | 50 x 76mm Brandering, screwed   | m 76   |
| 2  | 50 x 76mm Brandering, bolted (bolts elsewhere measured)   | m 57   |
| 3  | 50 x 114mm Ceiling joist, not exceeding 2.4 metre long, bolted (bolts elsewhere measured)               | m 12   |
| <b><u>6,4mm Gypsum plaster board with H-type pressed steel jointing strips</u></b>   |   |        |
| 4  | Horizontal ceilings including 38 x 50mm sawn softwood brandering at 400mm centres in one direction only | m2 12  |
| <b><u>16mm Thick melamine faced chipboard (colour : Folkstone grey) screwed to timber trusses and/or timber brandering with and including round head wood screws at 300mm centres (timber trusses and brandering elsewhere measured)</u></b> |   |        |
| 5  | Ceilings  | m2 12  |
| 6  | Vertical ceilings   | m2 68  |
| 7  | Raking ceilings   | m2 113 |
| 8  | Cover strip, 61mm wide  | m 12   |
| 9  | Cover strip, 114mm wide   | m 47   |
| 10   | Cover strip, 197mm wide   | m 70   |
| <b><u>Sundries</u></b>   |   |        |
| 11   | Bolts   | kg 5   |
| 12   | 12mm Diameter expansion bolt  | No 38  |

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**SUSPENDED CEILINGS**

Note :

Electrical light fittings, diffusers, panels, etc generally are "lay in" units of the same dimensions as the suspension grid described and allowance must be made accordingly for their support inclusive of any flexibility inseting out that may be required (ceiling panels have not been deducted and pricing is to take cognisance thereof)

**595 x 1195 x 12,5mm thick white porcelain vinyl faced gypsum board square edged "lay-in" panels on and including 38mm wide x 24mm high pre-painted aluminium exposed tee suspension system suspended with and including 4mm diameter galvanised rods**

Suspended from timber trusses

|    |  |    |     |
|----|--|----|-----|
| 13 | Ceilings suspended not exceeding 1 metre from timber trusses                       | m2 | 521 |
| 14 | Ceilings suspended exceeding 1 metre and not exceeding 2 metre from timber trusses | m2 | 5   |
| 15 | Extra over ceiling for opening for 50mm diameter down lighter (Provisional)        | No | 6   |
| 16 | Extra over ceiling for opening for 600 x 1200mm light fitting (Provisional)        | No | 130 |

Suspended from concrete soffits

|    |  |    |     |
|----|--|----|-----|
| 17 | Ceilings suspended not exceeding 1 metre from concrete soffits                       | m2 | 107 |
| 18 | Ceilings suspended exceeding 1 metre and not exceeding 2 metre from concrete soffits | m2 | 473 |
| 19 | Extra over ceiling for opening for 50mm diameter down lighter (Provisional)          | No | 16  |
| 20 | Extra over ceiling for opening for 600 x 1200mm light fitting (Provisional)          | No | 112 |

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**600 x 600 x 15mm Thick x 4.0kg/m<sup>2</sup> white acoustic ceiling tiles made of modern, bio-soluble mineral wool, perlite, clay and starch with recessed edges all round; surface of ceiling tile combines needle perforations with fine fissures in irregular pattern; ceiling tiles layed on and including 38mm wide x 24mm high pre-painted aluminium exposed tee suspension system suspended with and including 19mm steel hanger straps**

Acoustic ceiling tiles to adhere to the following technical performances :

- Building material class : A2-s1, d0 as per EN 13501-1
- Fire resistance : F30 - F120 as per DIN 4102 part 2 (as per test certificate)  
REI30 - REI120 per EN 13501 part 2 (as per test certificate)
- Sound absorption : EN ISO 354  
α<sub>w</sub> = 0.60 as per EN ISO 11654  
NRC = 0.60 as per ASTM C 423
- Sound attenuation : D<sub>n,f,w</sub> = 34 dB as per EN ISO 10848  
CAC = 36dB as per ASTM E413-10  
(15 mm thickness, according to test certificate)
- Light reflectance : Up to 88%
- Sound solution : R<sub>w</sub> = 21dB as per ISO 10140-2
- Thermal conductivity : λ = 0.052 - 0.057 W/mK as per DIN 52612
- Air permeability : PM1 (≤ 30 m<sup>3</sup>/hm<sup>2</sup>) as per DIN 18177
- Humidity :Up to 95% RH

Suspended from timber trusses

|    |  |    |    |
|----|--|----|----|
| 21 | Ceilings suspended not exceeding 1 metre from timber trusses                 | m2 | 93 |
| 22 | Extra over ceiling for opening for 600 x 600mm light fitting (Provisional)   | No | 3  |
| 23 | Extra over ceiling for opening for 600 x 1200mm light fitting (Provisional)  | No | 6  |
| 24 | Extra over ceiling for opening for 135mm diameter down lighter (Provisional) | No | 13 |

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|    |  |    |       |   |
|----|--|----|-------|---|
| 25 | Extra over ceiling for opening for 600mm diameter air return grilles (Provisional)   | No | 4     |   |
| 26 | Extra over ceiling for opening for 200 x 200mm air supply grilles (Provisional)  | No | 1     |   |
| 27 | Extra over ceiling for opening for 600 x 600mm air supply diffusers (Provisional)  | No | 9     |   |
|    | <u>Suspended from concrete soffits</u>   |    |       |   |
| 28 | Ceilings suspended exceeding 1 metre and not exceeding 2 metre from concrete soffits   | m2 | 80    |   |
| 29 | Extra over ceiling for opening for 600 x 600mm light fitting (Provisional)   | No | 6     |   |
| 30 | Extra over ceiling for opening for 600 x 1200mm light fitting (Provisional)  | No | 3     |   |
| 31 | Extra over ceiling for opening for 135mm diameter down lighter (Provisional)   | No | 13    |   |
| 32 | Extra over ceiling for opening for 600mm diameter air return grilles (Provisional)   | No | 4     |   |
| 33 | Extra over ceiling for opening for 200 x 200mm air supply grilles (Provisional)  | No | 1     |   |
| 34 | Extra over ceiling for opening for 600 x 600mm air supply diffusers (Provisional)  | No | 9     |   |
|    | <b><u>CORNICES, WALL ANGLES, COVER STRIPS</u></b><br><b><u>(WG 129)</u></b>  |    |       |   |
|    | <b><u>Gypsum board</u></b>   |    |       |   |
| 35 | 75mm Coved cornice, nailed   | m  | 27    |   |
|    | <b><u>Pre-painted aluminium</u></b>  |    |       |   |
| 36 | 25 x 20 x 20 x 15mm Shadowline wall angle plugged  | m  | 1,548 |   |
|    | <b><u>Natural anodised aluminium</u></b>   |    |       |   |
| 37 | 12.7 x 12.7 x 1.6mm Thick angle section cover strip, plugged   | m  | 217   |   |
|    | <b>Carried to Collection</b>   |    |       | R |
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|    |   |   |     |
|----|---|---|-----|
| 38 | 12.7 x 12.7 x 1.6mm Thick x 135 degree cover strip, screwed to timber (Provisional) | m | 154 |
| 39 | 16 x 16 x 1.6mm Thick H-section joint strip (Provisional)                           | m | 79  |

**CEILING INSULATION (WG 129)**

**SABS approved glass wool ceiling insulation**

|    |  |    |       |
|----|--|----|-------|
| 40 | 135mm Thick insulation closely fitted and laid on top of nailed and suspended ceilings | m2 | 1,337 |
|----|--|----|-------|

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**DEMOUNTABLE PARTITIONS (WG 149)**

Note :

All aluminium partitioning to be manufactured of an approved aluminium system and fitted with specified ironmongery.

All frames to be natural anodised and supplied with a protective tape.

Rates to allow for manufacture and installation of partitions, complete with and including all doors, glazing, glazing beads, timber spacer rails, wool pile, weather seals, handles, etc.

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**Purpose made partitioning of 30 x 76mm natural anodised aluminium framework glazed with and including 6.38mm thick clear laminated safety glass, as per attached drawing**

|    |   |    |   |
|----|---|----|---|
| 41 | Partitioning, 2200mm long x 2100mm high with bottom frame plugged to concrete floor and one vertical frame plugged to brick wall; partitioning comprising of two (2) glazed panes, each approximately 1100mm wide x 2100mm high | No | 2 |
|----|---|----|---|

|    |   |    |   |
|----|---|----|---|
| 42 | Partitioning, 10 metre long x 2100mm high with bottom frame plugged to concrete floor and one vertical frame plugged to brick wall; partitioning comprising of six (6) glazed panes, each approximately 1200mm wide x 2100mm high and three (3) plain openings, each approximately 900mm wide x 2100mm high | No | 1 |
|----|---|----|---|

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|--|---|------|---|---|-----------|
| 43   | Extra over 10 metre long partitioning for T-intersection with 2200mm long partitioning  | No   | 2 |   |           |
| <b><u>ACCESS FLOOR SYSTEM</u></b>  |   |      |   |   |           |
| 44   | Provide the sum of R59,752.00 (Fifty Nine Thousand Seven Hundred and Fifty Two) for the supply and installation of a raised access floor system by a specialist | Item |   |   | 59,752.00 |
| 45   | Allow for profit  |      |   | % |           |
| 46   | Allow for attendance  |      |   | % |           |
| <b>Carried to Collection</b>   |   |      |   |   | R         |
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| Item No | <b><u>SECTION NO. 2</u></b>  | Quantity | Rate | Amount |
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|         | <b><u>BILL NO. 10</u></b>  |          |      |        |
|         | <b><u>FLOOR COVERINGS, PLASTIC LININGS, ETC</u></b>  |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 130 for JBCC CPAP purposes   |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |          |      |        |
|         | <b><u>Preparation of screeds</u></b>   |          |      |        |
|         | A level screed must be provided as specified. As a general rule, a deviation of not more than 3mm over an area of 3metres will give a quality level floor. In the event of screed levelling or improvement being required in some areas, this should be done by using a recognised brand of standard screed leveller as per manufacturer's instructions. |          |      |        |
|         | <b><u>FLOOR COVERINGS (WG 130)</u></b>   |          |      |        |
|         | <b><u>500 x 500mm x 8.5mm Thick heavy commercial, PP, structured needle punched colour fast carpet tiles with stainproof polypropylene fibre, bitumen backing, fire index of 3, electrostatic propensity of less than 2.0kV and fibre mass of 920g/m<sup>2</sup></u></b>   |          |      |        |
| 1       | On floors and landings   | m2       | 524  |        |
|         | <b><u>Sundries</u></b>   |          |      |        |
| 2       | 38mm Wide x 4mm high natural anodised aluminium transition cover, in single lengths, between carpet tiles and ceramic tiles, plugged (Provisional)   | m        | 34   |        |
|         | <b><u>WALL LININGS (WG 130)</u></b>  |          |      |        |
|         | <b>Carried to Collection</b>   |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 10<br>FLOOR COVERINGS, PLASTIC LININGS, ETC<br>Keimoes Magistrate's office  |          |      |        |

|   |  |    |    |  |  |
|---|--|----|----|--|--|
| 3   | <p><u>10.5mm Thick black rubber conveyor belt secured to brick wall with and including brass screws and washers at 150mm centres in both directions</u></p> <p>On walls</p>  | m2 | 2  |  |  |
| 4   | <p><u>500 x 500mm x 8.5mm Thick heavy commercial, PP, structured needle punched colour fast carpet tiles with stainproof polypropylene fibre, bitumen backing, fire index of 3, electrostatic propensity of less than 2.0kV and fibre mass of 920g/m<sup>2</sup></u></p> <p>On walls</p> | m2 | 15 |  |  |
| <b>Carried to Collection</b>  |  |    |    |  |  |
| <p>Section No. 2<br/>         BUILDING WORK<br/>         Bill No. 10<br/>         FLOOR COVERINGS, PLASTIC LININGS, ETC<br/> <b>Keimoes Magistrate's office</b></p> |  |    |    |  |  |

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BUILDING WORK

Bill No. 10

FLOOR COVERINGS, PLASTIC LININGS, ETC

**COLLECTION**

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Section No. 2

BUILDING WORK

Bill No. 10

FLOOR COVERINGS, PLASTIC LININGS, ETC

**Keimoes Magistrate's office**

R



| Item No | <b><u>SECTION NO. 2</u></b>   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 11</u></b>   |          |      |        |
|         | <b><u>IRONMONGERY</u></b>   |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 132 for JBCC CPAP purposes  |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | All products for items in this bill to be SABS approved and it shall be deemed that the Tenderer allows in his pricing accordingly.<br>-----  |          |      |        |
|         | <b><u>HINGES, BOLTS, ETC</u></b>  |          |      |        |
|         | <b><u>Cabin hook and eyes fixed to timber</u></b>   |          |      |        |
| 1       | 75mm Long chromium plated cabin hook and eye; cabin hook fixed to and including 100 x 100 x 32mm thick oiled hard wood block with chamfered edges all round, plugged (Provisional)    | No       | 5    |        |
|         | <b><u>Bolts fixed to timber</u></b>   |          |      |        |
| 2       | Polished brass flush bolt, size overall 19mm wide x 150mm long, with base 19mm wide x 37mm deep and 11mm diameter bolt extending 18mm beyond base plate; keep let into metal frame    | No       | 12   |        |
| 3       | Polished brass flush bolt, size overall 19mm wide x 150mm long, with base 19mm wide x 37mm deep and 11mm diameter bolt extending 18mm beyond base plate; keep let into concrete floor | No       | 12   |        |
|         | <b>Carried to Collection</b>  |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 11<br>IRONMONGERY<br><b>Keimoes Magistrate's office</b>  |          |      |        |

|   |   |       |    |   |
|---|---|-------|----|---|
| 4   | <p>Anodised silver aluminium helping hand WC / accessible facility indicator bolt with anti-bacterial coating, unit comprising of :</p> <ul style="list-style-type: none"> <li>• lever handle bolt on 38mm wide x 120mm high backplate with bolt extending 41mm beyond side of backplate and lever handle projecting 77mm from face of backplate</li> <li>• 22mm wide x 44mm high x 44mm deep finger pull on 38mm wide x 178mm high backplate</li> <li>• "red and white" occupancy signal</li> <li>• striker plate</li> </ul> | No    | 6  |   |
| <b><u>LOCKS</u></b>   |   |       |    |   |
| <b><u>Padlocks</u></b>  |   |       |    |   |
| 5   | 50mm Brass padlock with 28mm hardened stainless steel shackle (Provisional)   | No    | 92 |   |
| <b><u>Lock cases fixed to timber</u></b>  |   |       |    |   |
| 6   | Polished brass oval cylinder upright lock; front plate 25mm wide x 152mm high, lock case 65mm deep x 108mm high and striker plate 25mm wide x 140mm high  | No    | 80 |   |
| <b><u>Cylinders fixed to timber</u></b>   |   |       |    |   |
| 7   | Satin chrome 5-pin oval double cylinder, 17.5mm wide x 66mm long x 31.5mm high, with five (5) year warranty   | No    | 80 |   |
| <b><u>Sundries</u></b>  |   |       |    |   |
| 8   | Rebate conversion set   | No    | 12 |   |
| <b><u>HANDLES</u></b>   |   |       |    |   |
| <b><u>Lever furniture fixed to timber</u></b>   |   |       |    |   |
| 9   | Satin chrome aluminium lever handle on 76mm wide x 152mm high x 3mm thick satin chrome aluminium back plate; backplate holed for oval cylinder lock (profile as type Waterbok AL6W63-13SC or other approved)  | Pairs | 80 |   |
| <b>Carried to Collection</b>  |   |       |    | R |
| <p>Section No. 2<br/>         BUILDING WORK<br/>         Bill No. 11<br/>         IRONMONGERY<br/> <b>Keimoes Magistrate's office</b></p> |   |       |    |   |

|  |   |       |    |
|--|---|-------|----|
| 10   | Satin chrome aluminium lever handle bathroom lock; lever handles (Dove profile) on 76mm wide x 152mm high x 3mm thick satin chrome aluminium back plates; unit fitted with and including lock mechanism with "red and white" occupancy signal | Pairs | 16 |
| <b><u>Pull handles fixed to timber</u></b>   |   |       |    |
| 11   | 22mm diameter satin chrome aluminium pull handle (Dove profile), 132mm long x 60mm deep, on 76mm wide x 152mm high x 3mm thick satin chrome aluminium blank back plate  | Pairs | 9  |
| 12   | 22mm diameter x 300mm long x 60mm deep anodised silver aluminium pull handle with two 50mm diameter x 10mm thick anodised silver aluminium flanges  | No    | 12 |
| <b><u>PUSH PLATES AND KICKING PLATES</u></b>   |   |       |    |
| <b><u>2mm Thick anodised silver aluminium push or kicking plate</u></b>  |   |       |    |
| 13   | Kicking plate, 800mm wide x 300mm high  | No    | 12 |
| <b><u>DOOR CLOSERS</u></b>   |   |       |    |
| <b>Note</b> : Door closers to aluminium doors elsewhere measured.  |   |       |    |
| <b><u>Door closers tested and adheres to EN1154 and certified to ISO9001, fixed to timber doors and steel frames</u></b> |   |       |    |
| 14   | Overhead door closer, 245mm long x 46mm deep x 60mm high x 1.3kg, with adjustable closing force EN2-4 , adjustable and speed and delayed action   | No    | 23 |

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**LETTERS, NAMEPLATES, ETC. (Provisional)**

**Note :**

The term "**single sided**" refers to letters, numerals, pictograms or signs appearing on one side of the name/sign plate.

The term "**double sided**" refers to letters, numerals, pictograms or signs appearing on **both** sides of the name/sign plate.

All signs to adhere to SANS 1186.

-----

**3mm Thick white ABS plastic plate with 25mm high black lettering in "Arial" font, twice drilled and screwed to timber or steel door**

|  |  |    |     |
|--|--|----|-----|
| 15   | Name plate, 120mm long x 30mm high, with two letters or numbers    | No | 26  |
| 16   | Name plate, 120mm long x 30mm high, with three letters or numbers  | No | 115 |
| 17   | Name plate, 120mm long x 30mm high, with four letters or numbers   | No | 6   |
| <b><u>3mm Thick white ABS plastic name/sign plates with BLACK letters, numerals, signs or pictograms</u></b> |  |    |     |
| 18   | Single sided, 190mm x 190mm, with <b>MALE</b> pictogram            | No | 4   |
| 19   | Single sided, 190mm x 190mm, with <b>FEMALE</b> pictogram          | No | 4   |
| 20   | Single sided, 190mm x 190mm, with <b>DISABLED</b> pictogram        | No | 5   |
| 21   | Single sided, 190mm x 190mm, with <b>DIRECTION ARROW</b> pictogram | No | 1   |
| 22   | Single sided, 190mm x 190mm, with <b>BABY CARE</b> pictogram       | No | 1   |
| 23   | Single sided, 190mm x 190mm, with <b>TEA ROOM</b> pictogram        | No | 2   |

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|    |  |    |    |   |
|----|--|----|----|---|
| 24 | Single sided, 190mm x 190mm, with <b>CLEANERS ROOM</b> pictogram   | No | 1  |   |
|    | <u>3mm Thick white ABS plastic name/sign plates with GREEN photo luminescent letters, numerals, signs or pictograms</u>  |    |    |   |
| 25 | Single sided, 380mm x 190mm, with <b>RUNNING MAN AND DIRECTION ARROW</b> pictograms  | No | 25 |   |
| 26 | Single sided, 380mm x 190mm, with <b>RUNNING MAN AND DIRECTION ARROW</b> pictograms; plate fitted with and including aluminium frame all round and chains for ceiling mounting | No | 2  |   |
| 27 | Double sided, 380mm x 190mm, with <b>RUNNING MAN AND DIRECTION ARROW</b> pictograms; plate fitted with and including aluminium frame all round and chains for ceiling mounting | No | 9  |   |
|    | <u>3mm Thick white ABS plastic name/sign plates with RED photo luminescent letters, numerals, signs or pictograms</u>  |    |    |   |
| 28 | Single sided, 190mm x 190mm, with <b>FIRE HOSE REEL</b> pictogram  | No | 1  |   |
| 29 | Single sided, 190mm x 190mm, with <b>DIRECTION ARROW</b> pictogram   | No | 7  |   |
| 30 | Single sided, 380mm x 190mm, with <b>FIRE EXTINGUISHER AND FIRE HOSE REEL</b> pictograms   | No | 7  |   |
| 31 | Single sided, 380mm x 190mm, with <b>FIRE EXTINGUISHER AND DIRECTION ARROW</b> pictograms  | No | 4  |   |
| 32 | Single sided, 380mm x 190mm, with <b>FIRE HOSE REEL AND DIRECTION ARROW</b> pictograms   | No | 1  |   |
| 33 | Single sided, 190mm x 190mm, with <b>NO SMOKING</b> pictogram  | No | 7  |   |
|    | <u>3mm Thick white ABS plastic name/sign plates with BLACK AND YELLOW photo luminescent letters, numerals, signs or pictograms</u>   |    |    |   |
| 34 | Single sided, 190mm x 190mm, with <b>ELECTRICAL</b> pictogram  | No | 3  |   |
|    | <b>Carried to Collection</b>   |    |    | R |
|    | Section No. 2<br>BUILDING WORK<br>Bill No. 11<br>IRONMONGERY<br>Keimoes Magistrate's office  |    |    |   |

**SIGNAGE**

**Full colour chemically engraved baked enamel aluminium crest, including fixing studs and installation plotter (WG 136)**

Available at : Coat of Arms & Crest  
 Contact number : 082 495 7997  
 E-mail : simons@cybersmart.co.za  
 -----

|    |   |    |   |      |           |
|----|---|----|---|------|-----------|
| 35 | National Coat of Arms - South Africa, size 780 x 590mm  | No | 2 |      |           |
| 36 | National Coat of Arms - South Africa, size 1160 x 970mm   | No | 2 |      |           |
| 37 | Provide the sum of R58,685.00 (Fifty Eight Thousand Six Hundred and Eighty Five) for the supply and installation of signage by a specialist |    |   | Item | 58,685.00 |
| 38 | Allow for profit  |    |   |      | %         |
| 39 | Allow for attendance  |    |   |      | %         |

**STEEL LOCKERS**

Heavy duty epoxy powder coated steel lockers (Colour : Hammer grey)

|    |   |    |   |  |  |
|----|---|----|---|--|--|
| 40 | Two tier locker, 300mm wide x 450mm deep x 1800mm high; each compartment fitted with and including one shelf; each door fitted with and including hasp and staple suitable for padlock (padlock elsewhere measured) | No | 4 |  |  |
| 41 | 30mm Wide x 70mm high self-adhesive numeral (Provisional)   | No | 8 |  |  |

**SUNDRIES**

**Door stops**

|    |   |    |     |  |  |
|----|---|----|-----|--|--|
| 42 | 40mm diameter x 35mm high silver anodised aluminium door stop with rubber lining as sample 150, plugged | No | 133 |  |  |
|----|---|----|-----|--|--|

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**Emergency key boxes**

|    |  |    |   |
|----|--|----|---|
| 43 | Steel emergency red break glass box, 94mm wide x 139mm high x 55mm deep, used for emergency key exit points, plugged | No | 2 |
|----|--|----|---|

**PELMETS AND CURTAIN TRACKS**

|    |  |   |   |
|----|--|---|---|
| 44 | Double rail wall mounted curtain track including 14 rollers per metre, brackets, stopped ends, etc. plugged and screwed to walls | m | 8 |
|----|--|---|---|

**Vertical blind with 127mm wide vanes, with 46mm wide x 25mm high top track powder-coated in colour white with vanes of colour group 4 material (Provisional)**

Fixed inside reveal with Easy-fix clips

|    |   |    |    |
|----|---|----|----|
| 45 | Vertical blind to window size 533 x 654mm   | No | 3  |
| 46 | Vertical blind to window size 533 x 1559mm  | No | 10 |
| 47 | Vertical blind to window size 1022 x 1559mm | No | 16 |
| 48 | Vertical blind to window size 1511 x 654mm  | No | 4  |
| 49 | Vertical blind to window size 1511 x 1559mm | No | 34 |
| 50 | Vertical blind to window size 2000 x 1559mm | No | 2  |

**BATHROOM FITTINGS**

|    |  |    |    |
|----|--|----|----|
| 51 | 19mm Diameter chromium plated towel rail 500m long with towel rail brackets  | No | 6  |
| 52 | 156 x 303 x 141mm Stainless steel grade 304 wall mounted double wall mounted toilet roll holder with curved front with inspection window and cylinder lock               | No | 17 |
| 53 | 300 x 305 x 134mm Stainless steel grade 304 wall mounted paper towel dispenser with curved front with inspection window and cylinder lock (300-400pcs. loading capacity) | No | 12 |

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|  |   |    |    |   |
|--|---|----|----|---|
| 54   | 120 x 303 x 126mm Stainless steel grade wall mounted touch free soap dispenser with curved front with a 0,8 liter soap tank   | No | 13 |   |
| 55   | 110 x 230 x 110mm Stainless steel grade 304 wall mounted toilet brush holder with curved front complete wit nylon brush and removable plastic drop try withdrawal opening to left or right depending on mounting position | No | 17 |   |
| 56   | 355 x 460 x 168mm Stainless steel grade 304 wall mounted 23 litre waste bin with mounting bracket   | No | 9  |   |
| 57   | 520 x 300 x 270mm Stainless steel grade 304 vandal proof wall mounted 34 litre waste bin with curved front  | No | 10 |   |
| 58   | 245 x 140 x 167mm Stainless steel grade 304 wall mounted automatic hot air hand dryer with vandal resistant lock complete with fitments   | No | 9  |   |
| 59   | White horizontal anti-bacterial wall mounted baby changing station/table with a built-in shelf with a large deep bed and adjustable safety belt to meet applicable standards ASTM & en 12221-1                            | No | 1  |   |
| 60   | 32mm Stainless steel cistern rail 750mm long with two 250mm return ends plugged   | No | 6  |   |
| 61   | 32mm Stainless steel grab rail 1060mm long, divided into three equal parts, bent twice at 45° with centre flange and two 80mm return ends plugged   | No | 6  |   |
| 62   | 270 x 280 x 21mm Melamine finished shelf with rounded edges fixed to wall with painted support brackets   | No | 6  |   |
| <b>Carried to Collection</b>   |   |    |    | R |
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BUILDING WORK

Bill No. 11

IRONMONGERY

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BUILDING WORK

Bill No. 11

IRONMONGERY

**Keimoes Magistrate's office**

| Item No | <b><u>SECTION NO. 2</u></b>  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 12</u></b>  |          |      |        |
|         | <b><u>STRUCTURAL STEELWORK</u></b>   |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 134 for JBCC CPAP purposes   |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>  |          |      |        |
|         | <b><u>Descriptions</u></b>   |          |      |        |
|         | Descriptions of bolts shall be deemed to include nuts and washers  |          |      |        |
|         | Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete.   |          |      |        |
|         | <b><u>HOT-DIPPED GALVANISED STEEL BEAMS AND FIXING BRACKETS</u></b>  |          |      |        |
|         | <b><u>Steel beams in single lengths welded to mild steel angle section brackets (elsewhere measured)</u></b>   |          |      |        |
| 1       | 203 x 133 x 30kg/m universal beam  | t        | 0.50 |        |
| 2       | 356 x 171mm x 45kg/m I-section beams   | t        | 0.37 |        |
|         | <b><u>Angle sections brackets bolted to brickwork and/or concrete</u></b>  |          |      |        |
| 3       | 90 x 150 x 10mm Thick angle section fixing brackets, 300mm long, twice holed   | No       | 12   |        |
| 4       | Chemical anchor bolt, comprising of and including 16mm diameter x 110mm long grade 8.8 threaded rod, 16mm diameter nut and epoxy based styrene free high performance rapid curing low shrinkage fire resistant chemical anchoring system | No       | 24   |        |
|         | <b>Carried to Collection</b>   |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 12<br>STRUCTURAL STEELWORK<br>Keimoes Magistrate's office   |          |      |        |

|   |   |    |    |
|---|---|----|----|
| 5   | Hole through 6mm thick steel  | No | 24 |
| <p><b><u>GALVANIZED WELDED CAT LADDERS, RAILINGS, ETC</u></b></p> <p><b><u>Galvanised welded cat ladder formed of 65 x 10mm flat section stringers and 20mm diameter rungs 500mm long at approximately 300mm centres including flat and angle section connections, floor mounting bracket and brackets to bolt to walls with and including 10mm expansion bolts (Provisional)</u></b></p> |   |    |    |
| 6   | Cat ladder 500mm wide and 4250mm high rise and 1200mm high standard outlet to roof  | No | 1  |
| 7   | Cat ladder 500mm wide and 4860mm high rise and 1200mm high standard outlet to roof  | No | 1  |
| 8   | Safety cage 2950mm high formed of 5 straps and 5 hoops of 50 x 8mm flat bar bend and bolted to cat ladder   | No | 1  |
| 9   | Safety cage 3560mm high formed of 5 straps and 6 hoops of 50 x 8mm flat bar bend and bolted to cat ladder   | No | 1  |
| <p><b><u>Galvanised mild steel ball type tubular inter-link patent handrail system to maintenance area</u></b></p>  |   |    |    |
| 10  | Horizontal balustrade 1000mm high of 34,1mm diameter x 2,5mm wall thickness continuous top and bottom rails and 42,9mm diameter industrial type stanchions at average 1,2m centres with 10mm thick x 150 x 60mm base plates and bolted to concrete slab | m  | 11 |
| 11  | Extra over for 90 degree corner bend of horizontal balustrading   | No | 2  |
| 12  | Extra over for straight end closure piece   | No | 4  |

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Section No. 2  
 BUILDING WORK  
 Bill No. 12  
 STRUCTURAL STEELWORK  
 Keimoes Magistrate's office

Section No. 2

BUILDING WORK

Bill No. 12

STRUCTURAL STEELWORK

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BUILDING WORK

Bill No. 12

STRUCTURAL STEELWORK

**Keimoes Magistrate's office**

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| Item No | <b><u>SECTION NO. 2</u></b>   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 13</u></b>   |          |      |        |
|         | <b><u>METALWORK</u></b>   |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 136 for JBCC CPAP purposes                        |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | <b><u>Descriptions</u></b>  |          |      |        |
|         | Descriptions of bolts shall be deemed to include nuts and washers   |          |      |        |
|         | Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete |          |      |        |
|         | Metalwork described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described  |          |      |        |
|         | All corner intersection to be mitred and welded solid all round.  |          |      |        |
|         | <b><u>SUNDRY MILD STEEL WORK</u></b>  |          |      |        |
|         | <b><u>Bolts, etc.</u></b>   |          |      |        |
| 1       | 8mm Diameter expansion bolts  | No       | 8    |        |
|         | <b><u>MILD STEEL HANDRAILS, ETC.</u></b>  |          |      |        |
|         | <b><u>Welded mild steel handrails</u></b>   |          |      |        |
| 2       | 38 x 50mm x 2mm Thick rectangular hollow section handrail   | m        | 154  |        |
|         | <b>Carried to Collection</b>  |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 13<br>METALWORK<br><b>Keimoes Magistrate's office</b>  |          |      |        |

|   |   |    |     |
|---|---|----|-----|
| 3 | Fixing bracket, formed of and including 25 x 50 x 2mm thick rectangular hollow section, 55mm long, with one end welded to and including 150mm diameter x 5mm thick flat section base plate, twice holed for bolts and other end welded to handrail (bolts elsewhere measured) | No | 129 |
| 4 | 8mm Diameter expansion bolts  | No | 258 |
|   | <u>Extra over 38 x 50mm x 2mm thick rectangular hollow section handrail for</u>   |    |     |
| 5 | Flat closed end of and including 38 x 50mm x 2mm thick plate  | No | 46  |
| 6 | Mitred L-intersection   | No | 20  |
| 7 | Ramp or knee  | No | 31  |

**STAINLESS STEEL HANDRAILS (WG 141)**

**Stainless steel balustrade system of approved SABS certified grade 316 stainless steel comprising of pre-manufactured components assembled on site, all as per attached drawing 25716-A6004-00**

|    |  |    |    |
|----|--|----|----|
| 8  | 50.8mm Diameter tube handrail  | m  | 29 |
| 9  | Extra over 50.8mm diameter tube handrail for ramp or knee                          | No | 10 |
| 10 | Extra over 50.8mm diameter tube handrail for 50.8mm diameter end cap               | No | 16 |
| 11 | Side wall-mounted bracket with radius saddle suitable for 50.8mm diameter handrail | No | 31 |

**MILD STEEL BALUSTRADES (WG 136)**

**Carried to Collection**

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 METALWORK  
**Keimoes Magistrate's office**

**Welded balustrades to stairs, passages, etc. bolted to concrete**

|    |   |    |    |
|----|---|----|----|
| 12 | Balustrading, 831mm high, formed of and including 38 x 50 x 3mm thick rectangular hollow section continuous handrail, 50 x 50 x 2mm thick square hollow section continuous bottom rail, 19 x 19 x 2mm thick square hollow section single length balusters, each 730mm long and <b>TWO</b> 19 x 19 x 2mm thick square hollow section continuous horizontal rails welded to face of balusters; balusters spaced vertically at 100mm centres with top ends of balusters welded to underside of handrail and bottom ends of balusters welded to top of bottom rail; balustrading welded to uprights (uprights elsewhere measured)   | m  | 14 |
| 13 | Raking balustrading, 831mm high, formed of and including 38 x 50 x 3mm thick rectangular hollow section continuous handrail, 50 x 50 x 2mm thick square hollow section continuous bottom rail, 19 x 19 x 2mm thick square hollow section single length balusters, each 730mm long and <b>TWO</b> 19 x 19 x 2mm thick square hollow section continuous horizontal rails welded to face of balusters; balusters spaced vertically at 100mm centres with top ends of balusters welded to underside of handrail and bottom ends of balusters welded to top of bottom rail; balustrading welded to uprights (uprights elsewhere measured)  | m  | 4  |
| 14 | Side mounted 38 x 76 x 3mm thick rectangular hollow section upright, 1263mm high; top and bottom end of upright once splay cut and open ends covered with and including 3mm thick plate welded on; upright fitted with and including : <ul style="list-style-type: none"> <li>• one 50 x 50 x 2mm thick rectangular hollow section fixing rail, 55mm long, with one end welded to upper end of upright and other end welded to top rail of balustrade</li> <li>• one 50 x 5 x 2mm thick rectangular hollow section fixing rail, 55mm long, with one end welded to lower end of upright and other end welded to bottom rail of balustrade</li> <li>• one 150mm diameter x 5mm thick flat section flange welded to lower end of upright and twice holed for bolts (bolts elsewhere measured)</li> </ul> | No | 22 |
| 15 | 8mm Diameter expansion bolts  | No | 44 |

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 METALWORK  
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|  |  |       |
|--|--|-------|
| <u>Extra over 19 x 19mm x 2mm thick square hollow section rails for</u>          |  |       |
| 16   | Flat closed end of and including 19 x 19mm x 2mm thick plate | No 24 |
| 17   | Mitred L-intersection  | No 4  |
| 18   | Ramp or knee   | No 6  |
| <u>Extra over 38 x 50mm x 2mm thick rectangular hollow section hand rail for</u> |  |       |
| 19   | Flat closed end of and including 38 x 50mm x 2mm thick plate | No 12 |
| 20   | Mitred L-intersection  | No 2  |
| 21   | Ramp or knee   | No 3  |
| <u>Extra over 50 x 50mm x 2mm thick square hollow section for</u>                |  |       |
| 22   | Flat closed end of and including 50 x 50mm x 2mm thick plate | No 12 |
| 23   | Mitred L-intersection  | No 2  |
| 24   | Ramp or knee   | No 3  |

**STAINLESS STEEL BALUSTRADES (WG 141)**

**Stainless steel balustrade system of approved SABS certified grade 316 stainless steel comprising of pre-manufactured components assembled on site, all as per attached drawing 25716-A6004-00**

|   |   |      |
|---|---|------|
| <u>Top-mounted vertical STRAIGHT panel comprising of and including 50.8mm diameter tube handrail, 38.1mm diameter tube bottom rail and 19.1mm diameter tube vertical in-fills spaced at 100mm centres</u> |   |      |
| 25  | Top-mounted vertical STRAIGHT panel, 1159mm long x 510mm high | No 1 |

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|    |  |    |   |   |
|----|--|----|---|---|
| 26 | Top-mounted vertical STRAIGHT panel, 1476mm long x 510mm high  | No | 1 |   |
| 27 | Top-mounted vertical STRAIGHT panel, 600mm long x 1000mm high  | No | 1 |   |
| 28 | Top-mounted vertical STRAIGHT panel, 1376mm long x 1000mm high   | No | 1 |   |
| 29 | Top-mounted vertical STRAIGHT panel, 2424mm long x 1000mm high, panel provided with and including one 16mm diameter x 150mm long threaded rod and stud; threaded rod secured to hole in concrete with and including epoxy adhesive                               | No | 1 |   |
| 30 | Top-mounted vertical STRAIGHT panel, 2609mm long x 1000mm high, panel provided with and including one 16mm diameter x 150mm long threaded rod and stud; threaded rod secured to hole in concrete with and including epoxy adhesive                               | No | 1 |   |
| 31 | Top-mounted vertical <b>STAIR</b> panel, 1140mm long x 1000mm high   | No | 1 |   |
|    | <b><u>Top-mounted vertical STRAIGHT post set, comprising of and including 38.1mm diameter tube, 38.1mm diameter end cap and 16mm diameter x 150mm long threaded rod and stud; threaded rod secured to hole in concrete with and including epoxy adhesive</u></b> |    |   |   |
| 32 | Top-mounted vertical STRAIGHT <b>END</b> post set, 510mm high, fitted with and including one socket for 50.8mm diameter tube hand rail and one socket for 38.1mm diameter tube bottom rail   | No | 4 |   |
| 33 | Top-mounted vertical STRAIGHT <b>END</b> post set, 1000mm high, fitted with and including one socket for 50.8mm diameter tube hand rail and one socket for 38.1mm diameter tube bottom rail  | No | 8 |   |
| 34 | Top-mounted vertical STAIR <b>END</b> post set, 1000mm high, fitted with and including one socket for 50.8mm diameter tube hand rail and one socket for 38.1mm diameter tube bottom rail   | No | 2 |   |
|    | <b><u>WELDED MILD STEEL SCREENS, GATES, GRILLES, ETC. (WG 136)</u></b>   |    |   |   |
|    | <b>Carried to Collection</b>   |    |   | R |
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**GRILLE GATES**

**Welded frames bolted to concrete or brickwork**

|    |   |    |    |
|----|---|----|----|
| 35 | 50 x 50 x 4mm Thick hollow section frame                                      | m  | 12 |
| 36 | Extra over 50 x 50 x 4mm Thick hollow section frame for mitred L-intersection | No | 4  |
| 37 | Holes through both skins of 4mm thick hollow section                          | No | 14 |
| 38 | 10mm Diameter expansion bolts   | No | 14 |

**Carried to Collection**

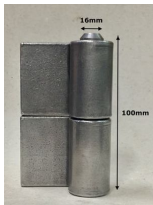
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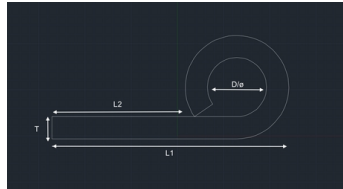
**Welded grille gates**

39 Single gate, 800mm wide x 2050mm high (G2a)

1. Gate formed of and including 50 x 50 x 4mm thick hollow section outer frame and one 50 x 50 x 4mm thick hollow section horizontal middle rail;
2. Gate filled in with and including single length 16mm diameter solid bars spaced vertically at approximately 117mm centres, let through holes in middle rail with ends of rods let into holes in top and bottom outer frame;
3. Gate fitted with and including :
  - three weld-on mild steel bullet hinges; hinge of 3mm thick (T) x 60mm long (L1) with 35mm long extension (L2) x 100mm high with 16mm diameter opening for pin (D/Ø)



Elevation



On plan

- one 12mm diameter x 250mm girth mild steel L-shaped sliding bolt
  - one 40mm wide x 5mm thick flat iron locking plate, 40mm long, twice angle rounded and once holed for padlock and welded to outer frame;
4. Sliding bolt fitted with and including :
    - one 40mm wide x 5mm thick flat iron locking plate, 40mm long, twice angle rounded and once holed for padlock, welded on
    - two 20mm long guide pipes, to suit 12mm diameter barrel bolt, welded to outer frame of gate

(padlocks elsewhere measured)

No

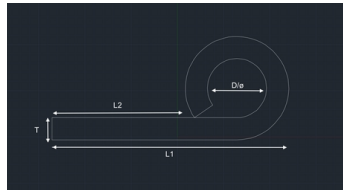
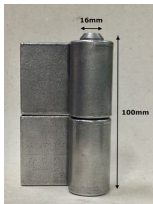
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- 40 Double gate, 1411mm wide x 2300mm high, comprising of two equal sized leaves (G2b)
1. Each leaf formed of and including 50 x 50 x 4mm thick hollow section outer frame and one 50 x 50 x 4mm thick hollow section horizontal middle rail;
  2. Each leaf filled in with and including single length 16mm diameter solid bars spaced vertically at approximately 117mm centres, let through holes in middle rail with ends of rods let into holes in top and bottom outer frame;
  3. Each leaf fitted with and including :
    - three weld-on mild steel bullet hinges; hinge of 3mm thick (T) x 60mm long (L1) with 35mm long extension (L2) x 100mm high with 16mm diameter opening for pin (D/Ø)



On plan

4. Gate fitted with and including :
  - one 12mm diameter x 250mm girth mild steel L-shaped sliding bolt
  - one 40mm wide x 5mm thick flat iron locking plate, 40mm long, twice angle rounded and once holed for padlock and welded to outer frame;
5. Sliding bolt fitted with and including :
  - one 40mm wide x 5mm thick flat iron locking plate, 40mm long, twice angle rounded and once holed for padlock, welded on
  - two 20mm long guide pipes, to suit 12mm diameter barrel bolt, welded to outer frame of gate

(padlocks elsewhere measured)

No

1

**OVERHEAD GRILLE**

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**Welded frames bolted to concrete or brickwork  
(Main entrance)**

|    |  |    |    |
|----|--|----|----|
| 41 | 50 x 150 x 3mm Thick hollow section frames, rails, etc.                                      | m  | 42 |
| 42 | Extra over 50 x 150 x 3mm Thick hollow section frames, rails, etc. for mitred L-intersection | m  | 4  |
| 43 | Extra over 50 x 150 x 3mm Thick hollow section frames, rails, etc. for mitred L-intersection | m  | 18 |
| 44 | Holes through 3mm thick steel  | No | 12 |
| 45 | 10mm Diameter expansion bolts  | No | 12 |

**WELDED AND HOT-DIPPED GALVANISED MILD  
STEEL SCREENS, GATES, GRILLES, ETC. (WG  
136)**

**NOTE :**

Rates shall be deemed to allow for on-site touch up of on-site welded components with cold galvanising.

-----

**GRILLE GATES**

Grille gates comprising of welded mild steel components. On-site welded areas on hot-dipped galvanised components to be touched up with cold galvanising.

-----

**Welded frames bolted to concrete or brickwork**

|    |   |    |    |
|----|---|----|----|
| 46 | 50 x 50 x 2mm Thick hollow section frame                                      | m  | 25 |
| 47 | Extra over 50 x 50 x 2mm Thick hollow section frame for mitred L-intersection | No | 10 |
| 48 | Holes through both skins of 2mm thick hollow section                          | No | 30 |
| 49 | 10mm Diameter expansion bolts   | No | 30 |

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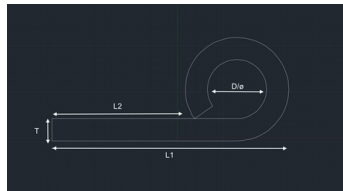
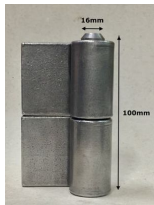
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**Welded grille gates**

50 Single gate, 910mm wide x 1920mm high (D16)

1. Gate formed of and including 50 x 50 x 2mm thick hollow section outer frame and one 50 x 50 x 2mm thick hollow section horizontal middle rail;
2. Gate filled in with and including single length 16mm diameter solid bars spaced vertically at approximately 110mm centres, let through holes in middle rail with ends of rods let into holes in top and bottom outer frame;
3. Gate fitted with and including :
  - three weld-on steel bullet hinges; hinge of 3mm thick (T) x 60mm long (L1) with 35mm long extension (L2) x 100mm high with 16mm diameter opening for pin (D/Ø)



On plan

- one 12mm diameter x 250mm girth mild steel L-shaped sliding bolt
  - one 40mm wide x 5mm thick flat iron locking plate, 40mm long, twice angle rounded and once holed for padlock and welded to outer frame;
4. Sliding bolt fitted with and including :
    - one 40mm wide x 5mm thick flat iron locking plate, 40mm long, twice angle rounded and once holed for padlock, welded on
    - two 20mm long guide pipes, to suit 12mm diameter barrel bolt, welded to outer frame of gate

(padlocks elsewhere measured)

No

5

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**SECURITY GRILLES**

Grilles comprising of factory manufactured fusion welded mild steel grids, cut and manufactured to size in factory, with exposed ends of bearers and transverse bars welded on site to angle section mild steel outer frames. On-site welded areas on hot-dipped galvanised components to be touched up with cold galvanising.

-----

**Welded frames bolted to concrete**

|    |  |    |     |
|----|--|----|-----|
| 51 | 50 x 50 x 5mm Thick angle section frame                                      | m  | 139 |
| 52 | Extra over 50 x 50 x 5mm thick angle section frame for mitred L-intersection | No | 164 |
| 53 | Holes through 5mm thick steel for bolts (elsewhere measured) (Provisional)   | No | 282 |
| 54 | 10mm Diameter expansion bolts; heads tag-welded (Provisional)                | No | 282 |

**Factory manufactured fusion welded mild steel grille, type "3xB100", constructed of 30mm wide x 4.5mm thick flat section bearers vertically spaced on 100mm centres and 7mm diameter solid transverse bars horizontally spaced on 120mm centres; grid size 100mm x 120 mm; grid with unbanded mass of 12.56kg/m<sup>2</sup>**

|    |                                  |    |   |
|----|----------------------------------|----|---|
| 55 | Grille, 159mm wide x 330mm high  | No | 2 |
| 56 | Grille, 311mm wide x 330mm high  | No | 2 |
| 57 | Grille, 445mm wide x 330mm high  | No | 4 |
| 58 | Grille, 717mm wide x 330mm high  | No | 2 |
| 59 | Grille, 1082mm wide x 330mm high | No | 1 |
| 60 | Grille, 1325mm wide x 330mm high | No | 1 |
| 61 | Grille, 1430mm wide x 330mm high | No | 5 |
| 62 | Grille, 532mm wide x 500mm high  | No | 2 |

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|    |   |    |   |
|----|---|----|---|
| 63 | Grille, 624mm wide x 500mm high   | No | 2 |
| 64 | Grille, 1230mm wide x 500mm high  | No | 1 |
| 65 | Grille, 1430mm wide x 500mm high  | No | 2 |
| 66 | Grille, 746mm wide x 490mm high on one side and 414mm high on other side    | No | 1 |
| 67 | Grille, 1430mm wide x 620mm high on one side and 490mm high on other side   | No | 1 |
| 68 | Grille, 746mm wide x 694mm high on one side and 620mm high on other side    | No | 1 |
| 69 | Grille, 447mm wide x 770mm high on one side and 725mm high on other side    | No | 1 |
| 70 | Grille, 1430mm wide x 910mm high on one side and 770mm high on other side   | No | 1 |
| 71 | Grille, 1430mm wide x 1040mm high on one side and 910mm high on other side  | No | 1 |
| 72 | Grille, 1430mm wide x 1180mm high on one side and 1040mm high on other side | No | 1 |
| 73 | Grille, 447mm wide x 1221mm high on one side and 1180mm high on other side  | No | 1 |
| 74 | Grille, 604mm wide x 1310mm high on one side and 1252mm high on other side  | No | 1 |
| 75 | Grille, 1430mm wide x 1450mm high on one side and 1310mm high on other side | No | 1 |
| 76 | Grille, 604mm wide x 1505mm high on one side and 1450mm high on other side  | No | 1 |
| 77 | Grille, 740mm wide x 1610mm high on one side and 1536mm high on other side  | No | 1 |
| 78 | Grille, 1430mm wide x 1740mm high on one side and 1610mm high on other side | No | 1 |
| 79 | Grille, 740mm wide x 1814mm high on one side and 1740mm high on other side  | No | 1 |

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|    |   |    |   |
|----|---|----|---|
| 80 | Grille, 1227mm wide x 1950mm high on one side and 1835mm high on other side | No | 1 |
| 81 | Grille, 1430mm wide x 2090mm high on one side and 1950mm high on other side | No | 1 |
| 82 | Grille, 1227mm wide x 2206mm high on one side and 2090mm high on other side | No | 1 |

**OVERHEAD GRILLES**

Overhead grille unit comprising of woven mesh sandwiched between and welded solid to angle section outer frame and angle section inner frame; grille strengthened with T-intersection rails welded on top of woven mesh with ends welded to angle section inner frame. Grille to be hot-dipped galvanised as a complete unit. On-site welded areas on hot-dipped galvanised components to be touched up with cold galvanising.

-----

**Welded frames, rails and brackets**

|    |   |    |    |
|----|---|----|----|
| 83 | 40 x 40 x 3mm Thick angle section frame   | m  | 75 |
| 84 | Extra over 40 x 40 x 3mm thick angle section frame for mitred L-intersection  | No | 32 |
| 85 | 50 x 50 x 5mm Thick angle section frame   | m  | 75 |
| 86 | Extra over 50 x 50 x 5mm thick angle section frame for mitred L-intersection  | No | 32 |
| 87 | 80 x 40 x 3mm Thick T-rail formed of and including <b>TWO</b> 40 x 40 x 3mm thick angle section welded back to back | m  | 64 |
| 88 | 90 x 90 x 6mm Thick angle section fixing brackets, 150mm long, twice holed  | No | 28 |
| 89 | 10mm Diameter expansion bolts   | No | 56 |

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**Galvanised carbon hardened fusion welded woven steel mesh of 4mm diameter wire and 12 x 12mm openings**

|    |  |    |    |
|----|--|----|----|
| 90 | Woven mesh covering welded solid to angle section frames | m2 | 44 |
|----|--|----|----|

**SUNDRY GALVANIZED STEELWORK**

**Welded rainwater channel cover and framing (Provisional)**

|    |  |   |    |
|----|--|---|----|
| 91 | 30 x 30 x 5mm Galvanised steel angle section frames with 30 x 30mm flat section bent lugs each 80mm girth welded on at 500mm centres and with last 20mm of end split in two and bent apart including embedding in concrete | m | 11 |
|----|--|---|----|

|    |   |    |   |
|----|---|----|---|
| 92 | Extra over last for mitred L-intersection | No | 4 |
|----|---|----|---|

|    |  |   |   |
|----|--|---|---|
| 93 | Galvanised steel heavy duty grating in 222mm widths and lengths not exceeding 1200mm long, laid loose in framing | m | 5 |
|----|--|---|---|

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**PRESSED STEEL DOOR FRAMES (WG 136)**

**Note:**

Frames

All door frames to be manufactured of 1.2mm thick steel to SABS specifications and to be **FULLY WELDED UP**.

Finishes

Door frames to be factory-dipped in red oxide paint.

Paint to door frames elsewhere measured.

Installation

All frames to be delivered to site and installed in accordance with the manufacturer's recommendation.

All frames to be installed plumb, level and straight, with no bending, twisting or springing and must be securely anchored with pre-welded fixing lugs to sides.

Rates

Rates to allow for manufacture and installation of frames, complete with and including sealants, etc.

-----

**1.2mm Thick double rebated frames fitted with THREE 100mm steel butt hinges suitable for 110mm brick walls**

|    |  |    |    |
|----|--|----|----|
| 94 | Frame for door 762mm wide x 2032mm high  | No | 1  |
| 95 | Frame for door 813mm wide x 2032mm high  | No | 17 |
| 96 | Frame and fanlight, overall 877mm wide x 2401mm high; frame for single door 813mm wide x 2032mm high and fixed glazed single pane fanlight 813mm wide x 305mm high | No | 7  |
| 97 | Frame and fanlight, overall 928mm wide x 2401mm high; frame for single door 864mm wide x 2032mm high and fixed glazed single pane fanlight 864mm wide x 305mm high | No | 1  |

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**1,2mm Thick double rebated frames fitted with THREE 100mm steel butt hinges and suitable for 230mm brick walls**

|     |   |    |    |
|-----|---|----|----|
| 98  | Frame for door 813mm wide x 2032mm high   | No | 14 |
| 99  | Frame for door 1511mm wide x 2032mm high  | No | 4  |
| 100 | Frame and fanlight, overall 877mm wide x 2401mm high; frame for single door 813mm wide x 2032mm high and fixed glazed single pane fanlight 813mm wide x 305mm high    | No | 54 |
| 101 | Frame and fanlight, overall 928mm wide x 2401mm high; frame for single door 864mm wide x 2032mm high and fixed glazed single pane fanlight 864mm wide x 305mm high    | No | 5  |
| 102 | Frame and fanlight, overall 1575mm wide x 2401mm high; frame for double door 1511mm wide x 2032mm high and fixed glazed single pane fanlight 1511mm wide x 305mm high | No | 8  |

**HOT-DIPPED GALVANISED STEEL COMBINATION DOORS, GRILLE GATES AND FRAMES (WG 136)**

**Note :**

Doors, grille gates, frames and lock boxes of doors to be manufactured as per Architect's drawings and PWD drawing POL2012/D1 to D5.

Locks can be ordered from VRC Prospects CC, contact details :

- Tel : 082 347 3719
- E-mail : [query@vrcpro.co.za](mailto:query@vrcpro.co.za)
- Web : <https://vrcpro.co.za>

All steel work to be hot-dipped galvanised.

Rates to allow for manufacture and installation, including all ironmongery, bolts, fixing lugs, etc. and on-site touch up of on-site welded components with cold galvanising.

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**Doors and gates to suit one brick walls**

|     |   |    |    |
|-----|---|----|----|
| 103 | Cell door with viewing panel and frame, unit overall 1018mm wide x 2020mm high, complete with and including lockset; door as type T1 (but 1018mm wide) on PWD drawing POL2012/D1a   | No | 6  |
| 104 | Cell door, grille gate and frame, unit overall 1018mm wide x 2020mm high, complete with and including lockset; door as type T2 and grille gate as type T3 on PWD drawing POL2012/D1   | No | 13 |
| 105 | Cell door with viewing panel, grille gate and frame, unit overall 1018mm wide x 2020mm high, complete with and including lockset; door as type T1 (but 1018mm wide) and grille gate as type T3 on PWD drawing POL2012/D1 and /D1a | No | 2  |

**"Clyden" cell locks**

|     |   |    |    |
|-----|---|----|----|
| 106 | Type D single throw cell lock to solid cell door              | No | 21 |
| 107 | Type D single throw cell lock to cell grille gate             | No | 15 |
| 108 | Key-alike combination for female cells (Provisional)          | No | 6  |
| 109 | Key-alike combination for male cells (Provisional)            | No | 6  |
| 110 | Key-alike combination for juvenile cells (Provisional)        | No | 4  |
| 111 | Key-alike combination for security access areas (Provisional) | No | 5  |

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**HOT-DIPPED GALVANISED STEEL CELL  
WINDOWS AND SCREENS (WG 136)**

**Note :**

Windows and screens to be manufactured as per PWD drawings POL2012/W1-W3.

Dimensions for internal fixed screens and hinged external screens on PWD drawings POL2012/W1-W3 to be adapted to suit standard residential steel windows NE1 and NE3

Glass elsewhere measured.

All steel work to be hot-dipped galvanised.

Rates to allow for manufacture and installation of units, including all ironmongery, bolts, fixing lugs, etc. and on-site touch up of on-site welded components with cold galvanising.

-----

**Cell window**

|     |  |    |    |  |
|-----|--|----|----|--|
| 112 | Cell window, 850mm wide x 950mm high, comprising of two single fixed panes and two side hung projecting out opening sections | No | 33 |  |
|-----|--|----|----|--|

**Cell window security screens**

|     |  |    |   |  |
|-----|--|----|---|--|
| 113 | Mesh covered security screen, 533mm wide x 654mm high, welded solid to internal face of window NE1 | No | 1 |  |
|-----|--|----|---|--|

|     |   |    |   |  |
|-----|---|----|---|--|
| 114 | Mesh covered security screen, 1511mm wide x 654mm high, welded solid to internal face of window NE3 | No | 2 |  |
|-----|---|----|---|--|

|     |   |    |    |  |
|-----|---|----|----|--|
| 115 | Mesh covered security screen, 793mm wide x 893mm high, welded solid to internal face of cell window | No | 33 |  |
|-----|---|----|----|--|

|     |  |    |   |  |
|-----|--|----|---|--|
| 116 | Hinged mesh covered security screen, 603mm wide x 704mm high, including frames, fixing brackets, hinges and bolts; unit bolted to brickwork (padlocks elsewhere measured) (Screen to be fitted to external face of window NE1) | No | 1 |  |
|-----|--|----|---|--|

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|  |  |    |    |   |
|--|--|----|----|---|
| 117  | Hinged mesh covered security screen, 1581mm wide x 704mm high, including frames, fixing brackets, hinges and bolts; unit bolted to brickwork (padlocks elsewhere measured) (Screen to be fitted to external face of window NE3)  | No | 2  |   |
| 118  | Hinged mesh covered security screen, 920mm wide x 1000mm high, including frames, fixing brackets, hinges and bolts; unit bolted to brickwork (padlocks elsewhere measured)   | No | 33 |   |
| <b><u>ANTI-BANDIT DOORS, STEEL STRONGROOM DOORS, VENTILATORS, ETC (WG 136)</u></b>               |  |    |    |   |
| <b><u>Anti-bandit doors and frames suitable for 230mm walls</u></b>                              |  |    |    |   |
| 119  | Anti-bandit door <b>and</b> frame with glazed view panel; door and frame overall 925mm wide x 2100mm high; door constructed of 100 x 50 x 2mm thick mild steel frame, laminated high density chipboard, bullet resistant steel and timber veneer both sides; door fitted with and including a five (5) pin dead lock, continuous roton type hinge, aluminium slam bar, aluminium D-type pull handles and <b>heavy duty</b> overhead door closer; frame constructed of 100 x 50 x 3mm thick mild steel hollow section and rebates of 32 x 20mm mild steel hollow section; view panel, 280mm wide x 380mm high, glazed with and including 53mm thick glass; performance level of door to be G3, resistant to AK47 assault rifle up to and including 12 gauge shotgun firing Brenneke slugs | No | 6  |   |
| <b><u>Strongroom doors and ventilators</u></b>   |  |    |    |   |
| 120  | 230mm Wide x 230mm high double ended strongroom ventilator with telescopic sleeve  | No | 10 |   |
| 121  | Category 2 strongroom door and frame, overall size 1190mm wide x 2020mm high x 190mm thick x 480kg, to suit wall opening 1010mm wide x 1970mm high; door 950mm wide x 1895mm high with 50mm thick outer plate; door opens to 180 degrees; unit fitted with eight heavy duty 40mm diameter bolts and two 7-lever high security key locks (D16)  | No | 5  |   |
| <b>Carried to Collection</b>   |  |    |    | R |
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**PRESSED STEEL TRANSFORMER ROOM  
DOORS AND FRAMES (WG 136)**

**Note:**

Doors and frames

All doors and frames to be manufactured of 1.6mm thick steel to SABS specifications. Frames to be **FULLY WELDED UP**.

Finishes

Unit to be factory-dipped in red oxide paint.

Paint to doors and frames elsewhere measured.

Installation

All units to be delivered to site and installed in accordance with the manufacturer's recommendation.

All frames to be installed plumb, level and straight, with no bending, twisting or springing and must be securely anchored with pre-welded fixing lugs to sides.

Rates

Rates to allow for manufacture and installation of units, complete with and including sealants, etc.

-----

**Transformer room doors suitable for 230mm walls**

|     |  |    |   |
|-----|--|----|---|
| 122 | Type AV single door and frame, overall size 815mm wide x 2032mm high, fitted with and including one vent   | No | 1 |
| 123 | Type BV single door and frame, overall size 915mm wide x 2135mm high, fitted with and including one vent   | No | 1 |
| 124 | Type CV single door and frame, overall size 1220mm wide x 2135mm high, fitted with and including one vent  | No | 1 |
| 125 | Type DV double door and frame, overall size 1830mm wide x 2440mm high, fitted with and including two vents | No | 2 |

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**STEEL WINDOWS (WG136)**

**Note:**

Frames

All window frames to be manufactured of **"FX7"** sections to SABS specifications.

Finishes

Window frames, burglar bars, mullions, transomes, support posts, fixing lugs, etc. to be factory-dipped in red oxide paint.

Paint to window frames and burglar bars elsewhere measured.

Burglar bars

Where specified, **opening sections** to window frames to be **factory-fitted with and including "Type B2" burglar bars.**

Installation

All windows to be delivered to site and installed in accordance with the manufacturer's recommendation.

All windows to be installed plumb, level and straight, with no bending, twisting or springing and must be securely anchored with pre-welded fixing lugs to sides, top and bottom.

Rates

Rates to allow for manufacture and installation of windows, complete with and including all ironmongery, burglar bars, sealants, etc.

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**Standard residential windows with type B2 burglar bars to all opening sections**

|     |  |    |    |
|-----|--|----|----|
| 126 | Window type NE1, 533mm wide x 654mm high     | No | 3  |
| 127 | Window type NE3, 1511mm wide x 654mm high    | No | 4  |
| 128 | Window type NE1NC5, 533mm wide x 1559mm high | No | 10 |

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|     |   |    |    |
|-----|---|----|----|
| 129 | Window type NE7NC7, 1022mm wide x 1559mm high   | No | 16 |
| 130 | Window type NE3NC3, 1511mm wide x 1559mm high   | No | 34 |
| 131 | Window type NE22NC22, 2000mm wide x 1559mm high | No | 2  |

**ALUMINIUM WINDOWS (WG 149)**

**Note :**

All aluminium windows to be manufactured of an approved aluminium system and fitted with specified ironmongery.

All window frames to be natural anodised and supplied with a protective tape.

All window frames to be sealed all round with an approved silicone sealant of approved colour on both sides of frame.

The sizes given are approximate and are not to be used for ordering purposes, but careful references must be made to the building for exact sizes. Any costs incurred for errors in this respect shall be at the contractor's expense.

Rates to allow for manufacture and installation of windows, complete with and including all glazing, glazing beads, timber spacer rails, wool pile, weather seals, handles, etc.

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**Purpose made windows of 30 x 76mm natural anodised aluminium framework glazed with and including 6.38mm thick CLEAR laminated safety glass**

|     |  |    |   |
|-----|--|----|---|
| 132 | Fixed glazed single pane window, 1400mm wide x 365mm high  | No | 2 |
| 133 | Fixed glazed single pane window, overall 817mm wide x 1068mm high; pane with opening 817mm wide x 168mm high at bottom and no bottom frame; opening at bottom of pane covered with and including a fixed single pane on each side; each pane, 757mm wide x 218mm high, of 6.38mm thick clear laminated safety glass with aluminium frame to bottom and sides | No | 1 |

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|  |  |    |   |   |
|--|--|----|---|---|
| 134  | Fixed glazed three-pane window, overall 1800mm wide x 1068mm high, comprising of : <ul style="list-style-type: none"> <li>two side panes; each 435mm wide x 1068mm high</li> <li>middle pane, 930mm wide x 1068mm high</li> <li>middle pane with opening 930mm wide x 168mm high at bottom and no bottom frame</li> <li>opening at bottom of middle pane covered with and including a fixed single pane on each side; each pane, 930mm wide x 218mm high, of 6.38mm thick clear laminated safety glass with aluminium frame to bottom and sides</li> </ul> | No | 2 |   |
| 135  | Fixed glazed single pane window, 900mm wide x 1499mm high  | No | 1 |   |
| 136  | Fixed glazed single pane window, 1022mm wide x 1499mm high   | No | 2 |   |
| 137  | Fixed glazed single pane window, 1378mm wide x 1499mm high   | No | 2 |   |
| 138  | Fixed glazed single pane window, 1412mm wide x 1499mm high   | No | 1 |   |
| 139  | Fixed glazed single pane window, 1806mm wide x 1499mm high   | No | 1 |   |
| 140  | Fixed glazed single pane window, 1992mm wide x 1499mm high   | No | 2 |   |
| 141  | Fixed glazed two-pane window, 2656mm wide x 1499mm high; each pane 1328mm wide x 1499mm high   | No | 1 |   |
| 142  | Fixed glazed single pane window, 2676mm wide x 1499mm high   | No | 4 |   |
| 143  | Fixed glazed two-pane window, 2649mm wide x 1615mm high, each pane 1325mm wide x 1615mm high   | No | 1 |   |
| 144  | Fixed glazed single pane window, 862mm wide x 1743mm high  | No | 1 |   |
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|  |   |    |   |   |
|--|---|----|---|---|
| 145  | Fixed glazed three-pane window, 3037mm wide x 1866mm high, comprising of :<br><br><ul style="list-style-type: none"> <li>• side pane, 615mm wide x 833mm high</li> <li>• middle pane, 1807mm wide overall; one section 1507mm wide x 1608mm high and other section 300mm wide x 1866mm high</li> <li>• side pane, 615mm wide x 1091mm high</li> </ul> | No | 1 |   |
| 146  | Fixed glazed two-pane window, 2649mm wide x 1870mm high, each pane 1325mm wide x 1870mm high  | No | 1 |   |
| 147  | Fixed glazed single pane window, 862mm wide x 1998mm high   | No | 1 |   |
| 148  | Fixed glazed two-pane window, 2649mm wide x 2125mm high, each pane 1325mm wide x 2125mm high  | No | 1 |   |
| 149  | Fixed glazed single pane window, 1296mm wide x 2295mm high  | No | 3 |   |
| 150  | Fixed glazed single pane window, 862mm wide x 2359mm high   | No | 1 |   |
| 151  | Fixed glazed single pane window, 862mm wide x 2614mm high   | No | 1 |   |
| 152  | Fixed glazed two-pane window, 1224mm wide x 2635mm high, bottom pane 1224mm wide x 1190mm high and top pane 1224mm wide x 1445mm high   | No | 1 |   |
| 153  | Fixed glazed single pane window, 1243mm wide x 2635mm high  | No | 1 |   |
| 154  | Fixed glazed two-pane window, 1332mm wide x 2635mm high, bottom pane 1332mm wide x 1190mm high and top pane 1332mm wide x 1445mm high   | No | 1 |   |
| 155  | Fixed glazed two-pane window, 1949mm wide x 2635mm high, bottom pane 1949mm wide x 1190mm high and top pane 1949mm wide x 1445mm high   | No | 1 |   |
| 156  | Fixed glazed two-pane window, 2147mm wide x 2635mm high, bottom pane 2147mm wide x 1190mm high and top pane 2147mm wide x 1445mm high   | No | 1 |   |
| <b>Carried to Collection</b>   |   |    |   |   |
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|  |  |    |    |   |
|--|--|----|----|---|
| 157  | Fixed glazed four-pane window, 2593mm wide x 2635mm high, comprising of two equal sized bottom panes, each 1297mm wide x 1190mm high and two equal sized top panes, each 1297mm wide x 1445mm high   | No | 1  |   |
| 158  | Fixed glazed three-pane window, 3110mm wide x 2635mm high, comprising of two equal sized side panes, each 770mm wide x 2635mm high and one middle pane, 1570mm wide x 2635mm high  | No | 1  |   |
| 159  | L-shaped fixed glazed two-pane window, 1045mm wide x 1244mm wide x 2635mm high; panes respectively, 1045mm wide x 2635mm high and 1244mm wide x 2635mm high  | No | 2  |   |
| 160  | Window, 900mm wide x 2720mm high, comprising of :<br><ul style="list-style-type: none"> <li>• <b>One</b> fixed glazed single bottom pane, 900mm wide x 900mm high</li> <li>• <b>One</b> fixed glazed single top pane, 900mm wide x 500mm high</li> <li>• <b>Two</b> equal sized top hung opening out sections, each 900mm wide x 660mm high</li> </ul> | No | 2  |   |
| 161  | Fixed glazed two-pane window, 1345mm wide x 3315mm high, bottom pane 1345mm wide x 1190mm high and top pane 1345mm wide x 2125mm high<br><br><u><b>Purpose made windows of 30 x 76mm natural anodised aluminium framework glazed with and including 6.38mm thick WHITE SOLAR E laminated safety glass</b></u>  | No | 1  |   |
| 162  | Fixed glazed single pane window, 1511mm wide x 319mm high  | No | 12 |   |
| 163  | Fixed glazed single pane window, 1511mm wide x 744mm high  | No | 14 |   |
| 164  | Fixed glazed single pane window, 1511mm wide x 1169mm high   | No | 3  |   |
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**Purpose made windows of natural anodised aluminium framework glazed with and including bullet resistant glass**

|     |  |    |   |
|-----|--|----|---|
| 165 | Fixed glazed single pane window, 487mm wide x 775mm high, with 38mm thick bullet resistant glass   | No | 1 |
| 166 | Fixed glazed single pane window, 1220mm wide x 1190mm high, with 78mm thick bullet resistant glass | No | 2 |

**ALUMINIUM WINDOWS WITH DOORS FORMING AN INTEGRAL PART OF UNIT (WG 149)**

**Note :**

All aluminium window and door units to be manufactured of an approved aluminium system, glazed with and including 6.38mm thick clear safety glass and fitted with specified ironmongery.

All frames to be natural anodised and supplied with a protective tape.

All units to be sealed all round with an approved silicone sealant of approved colour on both sides of frame.

Rates to allow for manufacture and installation of units, complete with and including all glazing, glazing beads, timber spacer rails, wool pile, weather seals, handles, etc.

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**Purpose made doors of natural anodised aluminium framework glazed with and including 6.38mm thick CLEAR laminated safety glass**

Unit, U-shaped on plan, size 1049mm long x 2954mm long x 1049mm long; top of windows 2635mm high above floor level and top of door frame 2100mm high above floor level; unit comprising of :

- **One** single door and frame, 900mm wide x 2100mm high; door fitted with and including manufacturer's hinges, lock and handles
- **Windows, sidelight and fanlight** as follow :
  - **one** fixed glazed single pane, 1049mm wide x 1499mm high
  - **one** fixed glazed double pane, 2954mm wide x 1499mm high; each pane 1477mm wide
  - on 1049mm length next to door : **one** fixed glazed sidelight 149mm wide x 1499mm high
  - on 1049mm length above door : **one** fixed glazed fanlight 900mm wide x 535mm high

No

1

**ALUMINIUM DOORS (WG 149)**

**Note :**

All aluminium doors to be manufactured of approved aluminium system, glazed with and including 6,38mm thick clear safety glass and fitted with specified ironmongery.

All door frames to be sealed all round with an approved silicone sealant on both sides of frame.

Rates to allow for manufacture and installation of doors, complete with and including all frames, glazing, glazing beads, timber spacer rails, metal rails, pull handles, locks, flush bolts, door stops, floor springs, roller catches, silicone sealant, etc.

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**Purpose made doors of natural anodised aluminium framework glazed with and including 6.38mm thick CLEAR laminated safety glass**

|     |   |    |   |
|-----|---|----|---|
| 168 | <p>Glazed single door and frame; unit 877mm wide x 2100mm high; door head height 2100mm high (including frame size); door divided into two fixed glazed panes by one mullion; door fitted with and including :</p> <ul style="list-style-type: none"> <li>• One approved overhead door closer with adjustable closing force EN2-4 and speed and delayed action</li> <li>• One electromagnetic lock</li> </ul>   | No | 3 |
| 169 | <p>Glazed single door and frame with sidelight to one side; unit 1124mm wide x 2100mm high; door head height 2100mm high (including frame size); unit comprising of :</p> <ul style="list-style-type: none"> <li>• <b>One</b> single glazed door, 860mm wide x 2100mm high (including frame size), fitted with and including manufacturer's hinges, lock and handles</li> <li>• <b>One</b> fixed glazed side light, 264mm wide x 2100mm high (including frame sizes)</li> </ul> | No | 1 |
| 170 | <p>Glazed single door and frame with top light; unit 960mm wide x 2635mm high; door head height 2100mm high (including frame size); unit comprising of :</p> <ul style="list-style-type: none"> <li>• <b>One</b> single glazed door, 960mm wide x 2100mm high (including frame size), fitted with and including manufacturer's hinges, lock and handles</li> <li>• <b>One</b> fixed glazed top light, 960mm wide x 535mm high (including frame sizes)</li> </ul>                | No | 1 |

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|   |   |           |          |          |
|---|---|-----------|----------|----------|
| <p>171</p>  | <p>Glazed single door and frame with sidelight to one side and top light above; unit 1378mm wide x 2635mm high; door head height 2100mm high (including frame size); unit comprising of :</p> <ul style="list-style-type: none"> <li>• <b>One</b> single glazed door, 900mm wide x 2100mm high (including frame size), fitted with and including manufacturer's hinges, lock and handles</li> <li>• <b>One</b> fixed glazed side light, 478mm wide x 1499mm high (including frame sizes); head height of sidelight is 2635mm</li> <li>• <b>One</b> fixed glazed top light, 1378mm wide x 535mm high (including frame sizes)</li> </ul>                        | <p>No</p> | <p>1</p> |          |
| <p>172</p>  | <p>Glazed single sliding door and frame with top light; unit 1800mm wide x 2635m high; door head height 2100mm high (including frame size); unit comprising of :</p> <ul style="list-style-type: none"> <li>• <b>One</b> sliding door and frame, 1800mm wide x 2100mm high (including frame size), fitted with and including manufacturer's hinges, lock and handles</li> <li>• <b>One</b> fixed glazed top light, 1800mm wide x 535mm high (including frame sizes) divided into two equal sections with one mullion</li> </ul>   | <p>No</p> | <p>1</p> |          |
| <p>173</p>  | <p>Glazed single door and frame with sidelight to one side and top light above; unit 2004mm wide x 2635mm high; door head height 2100mm high (including frame size); unit comprising of :</p> <ul style="list-style-type: none"> <li>• <b>One</b> single glazed door, 1000mm wide x 2100mm high (including frame size), fitted with and including manufacturer's hinges, lock and handles</li> <li>• <b>One</b> fixed glazed two-pane side light, 1004mm wide x 2635mm high (including frame sizes); panes respectively 1190mm high and 1445mm high</li> <li>• <b>One</b> fixed glazed top light, 1000mm wide x 535mm high (including frame sizes)</li> </ul> | <p>No</p> | <p>1</p> |          |
| <p><b>Carried to Collection</b></p>   |   |           |          | <p>R</p> |
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|   |   |    |   |  |
|---|---|----|---|--|
| 174   | <p>Glazed single door and frame with sidelight to one side and top light above; unit 2493mm wide x 2635mm high; door head height 2100mm high (including frame size); unit comprising of :</p> <ul style="list-style-type: none"> <li>• <b>One</b> single glazed door, 1000mm wide x 2100mm high (including frame size), fitted with and including manufacturer's hinges, lock and handles</li> <li>• <b>One</b> fixed glazed two-pane side light, 1493mm wide x 2635mm high (including frame sizes); panes respectively 1190mm high and 1445mm high</li> <li>• <b>One</b> fixed glazed top light, 1000mm wide x 535mm high (including frame sizes)</li> </ul> | No | 1 |  |
| 175   | <p>Glazed full breakout telescoping automatic double sliding door with sidelights both sides, overall size of unit 3110mm wide x 2635mm high; unit comprising of two equal sized sliding leaves, overall 1330mm wide x 2635mm high and two side lights, each 890mm wide x 2635mm high; unit fitted with and including ironmongery as per manufacturer's specifications</p> <p><b><u>Purpose made doors of natural anodised aluminium framework glazed with and including 6.38mm thick OBSCURE (Artic snow) laminated safety glass</u></b></p>   | No | 1 |  |
| 176   | <p>Glazed single access door and frame to suit opening, 800mm wide x 680mm high</p> <p><b><u>STEEL ROLLER SHUTTERS ETC (WG 136)</u></b></p> <p><b><u>Galvanised mild steel roller shutter door formed of 75mm wide x 1mm thick interlocking curtain slatting, roller shutter door provided complete with and including section guides, roller mechanism, canopy cover, drive-shaft, end plates, etc. fixed to brickwork or concrete</u></b></p>   | No | 3 |  |
| 177   | <p>Electrical operated solid slatted roller shutter suitable for opening 1214mm wide x 900mm high</p>   | No | 1 |  |
| 178   | <p>Remote controlled electrical operated solid slatted roller shutter suitable for opening 2564mm wide x 2125mm high</p>  | No | 2 |  |
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|   |   |    |   |   |
|---|---|----|---|---|
| 179   | Remote controlled electrical operated solid slatted roller shutter suitable for opening 3000mm wide x 3400mm high; roller shutter provided with and including lockable access door, 685mm wide x 1830mm high  | No | 1 |   |
| 180   | Remote controlled electrical operated punched slatted roller shutter suitable for opening 4000mm wide x 3400mm high; slats punched for ventilation openings, 150mm long x 35mm high   | No | 1 |   |
| <b><u>REVOLVING DOORS (WG149)</u></b>   |   |    |   |   |
| <b><u>Heavy-duty, movement-sensor-activated, free-access, AUTOMATIC GLASS REVOLVING DOOR of 10mm thick toughened glass and brushed stainless steel finishes; wings to stop automatic when touched</u></b> |   |    |   |   |
| 181   | Three-wing free-access automatic glass revolving door, 1430mm diameter x 2200mm high (the term "free-access" refers to non-limited access to persons; <b><u>no allowance</u></b> for the use of card readers, face readers, biometric readers, etc.)  | No | 2 |   |
| <b><u>STEEL FITTINGS (WG 136)</u></b>   |   |    |   |   |
| <b><u>SABS approved high quality, sturdy, wall mounted, epoxy coated steel key cabinet</u></b>  |   |    |   |   |
| 182   | Lockable single door key cabinet, 380mm wide x 550mm high x 80mm deep, designed to hold one hundred (100) keys and fitted with 100 zinc-plated hooks, ten continuous numbered hook strips, adjustable bands for hook strips, a swivelling key index, one chrome plated cylinder lock with one set of duplicate keys | No | 3 |   |
| <b><u>SAFES, ETC. (WG 136)</u></b>  |   |    |   |   |
| <b><u>SABS approved heavy duty, wall mounted, epoxy powder coated steel safe; body formed of 3mm thick steel and door of 6mm thick steel</u></b>  |   |    |   |   |
| 183   | Safe, 305mm wide x 200mm high x 180mm deep x 9kg, fitted with one shelf and heavy duty lock with three keys; safe bolted to wall (bolts elsewhere measured)   | No | 4 |   |
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|-----|--|----|---|---|--|
|     | <p><b><u>SABS approved heavy duty, epoxy powder coated steel bulk cash transfer unit; chute formed of 2.5mm thick steel, door on safe side of 6mm thick steel with two 20mm diameter lock bolts and two N8 key locks and door on attack side 55mm thick, category 2, with two 40mm diameter lock bolts and two N94 key locks; unit fitted with eight roller feeding system and mechanical interlocking</u></b></p>                     |    |   |   |  |
| 184 | Bulk cash transfer unit, 487mm wide x 604mm high x 604mm deep internal when doors are closed   | No | 1 |   |  |
|     | <p><b><u>BULLET RESISTANT PAY WINDOW AND TRANSACTION TRAY (WG 149)</u></b></p> <p><b><u>SABS approved bullet resistant pay window with transaction drawer; fixed single pane pay window comprising of natural anodised aluminium frame filled in with and including 38mm thick bullet resistant glass; transaction drawer of grade 304 stainless steel, lockable in three positions, secured in and including hardwood box</u></b></p> |    |   |   |  |
| 185 | Bullet resistant pay window and transaction drawer, unit 600mm wide x 950mm high; window 600mm wide x 775mm high; hardwood box 600mm wide x 600mm long x 175mm deep; transaction drawer 405mm wide x 465mm long x 145mm deep   | No | 2 |   |  |
|     | <p><b><u>FITTINGS, FURNITURE, ETC.</u></b></p> <p><b><u>NOTICE BOARDS</u></b></p> <p><b><u>The following in aluminium framed notice board with glass sliding doors</u></b></p> <p><u>Carpentry (WG 126)</u></p>  |    |   |   |  |
| 186 | 16mm Thick supawood back, plugged  | m2 | 2 |   |  |
|     | <u>Ironmongery (WG 136)</u>  |    |   |   |  |
| 187 | Chrome plate glass sliding door lock   | No | 1 |   |  |
| 188 | Nylon wheel rollers and end caps   | No | 4 |   |  |
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|  |  |    |   |
|--|--|----|---|
| <u>Natural anodised aluminium (WG149)</u>  |  |    |   |
| 189  | 50 x 50 x 2mm Thick angle section frame, plugged   | m  | 7 |
| 190  | Extra over 50 x 50 x 2mm thick angle section frame for mitred L-intersection   | No | 4 |
| 191  | 30 x 76mm x 2mm Thick hollow section outer frame   | m  | 7 |
| 192  | Extra over 38 x 76 x 2mm thick hollow section frame for mitred L-intersection  | No | 4 |
| 193  | Double channel (m-section) sliding glass top guide;<br><ul style="list-style-type: none"> <li>• outer dimensions : 25.50mm wide x 13mm high x 1.50mm thick</li> <li>• inner dimensions : Each channel 10.5mm wide x 10.8mm deep</li> </ul>   | m  | 4 |
| 194  | Extra over double channel (m-section) sliding glass top guide for mitred L-intersection  | No | 2 |
| 195  | Single channel (u-section) bottom track :<br><ul style="list-style-type: none"> <li>• outer dimensions : 17mm wide x 7.3mm high x 1.70mm thick bottom and 3.4mm thick sides</li> <li>• inner dimensions : 10.2mm wide x 5.6mm deep</li> </ul>  | m  | 2 |
| 196  | H-section bottom rails; H-section bottom rail dimensions :<br><ul style="list-style-type: none"> <li>• outer dimensions : 11.30mm wide x 29mm high x 1.4mm thick</li> <li>• inner dimensions of upper part of H-section housing bottom edge of glass : 8.50mm wide x 11mm deep</li> <li>• inner dimensions of lower part of H-section fitted over upstand edge of single channel (u-section) : 8.5mm wide x 16.5mm deep</li> </ul> | m  | 2 |
| <u>6.38mm Thick clear laminated safety glass (WG 150)</u>  |  |    |   |
| 197  | Glass door, 1010mm wide x 1200mm high, with edges polished smooth all round  | No | 2 |
| <u>4.5mm thick heavy commercial, stainproof pinning board carpet (WG 130)</u>                    |  |    |   |
| 198  | On supawood back, glued (supawood back elsewhere measured)   | m2 | 2 |
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**BENCHES**

**Heavy duty stainless steel public bench comprising of 40 x 80 x 2mm thick aluminium powder coated steel cross beam, 1.5mm thick stainless steel tubing (grade 201) in arms, legs and edges, 1.2mm thick brushed stainless steel (grade 201) seats with backs and sides**

Stainless steel (WG 141)

|     |   |    |    |
|-----|---|----|----|
| 199 | Three seater bench, 1800mm wide x 670mm deep x 790mm high | No | 2  |
| 200 | Four seater bench, 2380mm wide x 670mm deep x 790mm high  | No | 3  |
| 201 | Five seater bench, 2960mm wide x 670mm deep x 790mm high  | No | 13 |

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Section No. 2

BUILDING WORK

Bill No. 13

METALWORK

**Keimoes Magistrate's office**



| Item No | <b><u>SECTION NO. 2</u></b>  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <b><u>BILL NO. 14</u></b>  |          |       |        |
|         | <b><u>PLASTERING</u></b>   |          |       |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 142 for JBCC CPAP purposes |          |       |        |
|         | <b><u>SCREEDS</u></b>  |          |       |        |
|         | <b><u>3:1 Cement plaster screeds steel trowelled on concrete</u></b>   |          |       |        |
| 1       | 25mm Thick on floors and landings  | m2       | 1,501 |        |
| 2       | 25mm Thick on ramp   | m2       | 22    |        |
| 3       | 25mm Thick on treads and risers of stairs  | m2       | 77    |        |
| 4       | Average 60mm thick to falls and currents on concrete roof slab   | m2       | 241   |        |
| 5       | 75 x 75mm Triangular fillet against walls etc  | m        | 229   |        |
|         | <b><u>GRANOLITHIC</u></b>  |          |       |        |
|         | <b><u>Untinted granolithic on concrete (small areas on brickwork)</u></b>  |          |       |        |
| 6       | 25mm Thick on floors and landings  | m2       | 193   |        |
| 7       | 25mm Thick on treads and risers of stairs  | m2       | 55    |        |
| 8       | Skirting 76mm high   | m        | 3     |        |
| 9       | Skirting 76mm high over treads and risers of stairs  | m        | 5     |        |
| 10      | Concave skirting 250mm high  | m        | 17    |        |
|         | <b><u>INTERNAL PLASTER</u></b>   |          |       |        |
|         | <b>Carried to Collection</b>   |          |       | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 14<br>PLASTERING<br>Keimoes Magistrate's office   |          |       |        |

|   |  |    |       |
|---|--|----|-------|
| <b><u>One layer 4:1 steel floated cement plaster on brickwork (small areas on concrete)</u></b> |  |    |       |
| 11  | On walls                                       | m2 | 3,936 |
| 12  | On narrow widths                               | m2 | 132   |
| <b><u>One layer 4:1 steel floated cement plaster on concrete</u></b>                            |  |    |       |
| 13  | On top of bench slabs, vanity slabs, etc.      | m2 | 39    |
| 14  | On walls                                       | m2 | 206   |
| 15  | On columns                                     | m2 | 111   |
| 16  | On beams                                       | m2 | 124   |
| 17  | On ceilings and beams                          | m2 | 348   |
| 18  | On raking soffits                              | m2 | 40    |
| 19  | On raking and stepped outer edges of staircase | m2 | 1     |
| 20  | On narrow widths                               | m2 | 4     |

**EXTERNAL PLASTER**

|   |                                    |    |     |
|---|------------------------------------|----|-----|
| <b><u>One layer 5:1 steel floated cement plaster on brickwork (small areas on concrete)</u></b> |                                    |    |     |
| 21  | On walls                           | m2 | 177 |
| 22  | On narrow widths                   | m2 | 136 |
| <b><u>One layer 3:1 wood floated cement plaster on concrete</u></b>                             |                                    |    |     |
| 23  | On walls                           | m2 | 192 |
| 24  | On columns                         | m2 | 29  |
| 25  | On projecting and isolated columns | m2 | 77  |
| 26  | On beams                           | m2 | 189 |
| 27  | On ceilings                        | m2 | 7   |

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|   |   |    |     |
|---|---|----|-----|
| 28  | On narrow widths  | m2 | 125 |
| 29  | On sloping top, edges and projecting soffit of copings<br>460mm girth   | m  | 7   |
| <b><u>CORNER PROTECTORS, DIVIDING STRIPS,<br/>ETC</u></b> |   |    |     |
| <b><u>Brass (WG 136)</u></b>                              |   |    |     |
| 30  | 3 x 25mm Flat section brass dividing strips between<br>different floor finishes (Provisional)   | m  | 16  |
| 31  | 3 x 40mm Flat section brass water bar let into top of<br>concrete surface bed (Provisional)   | m  | 8   |
| <b><u>Natural anodised aluminium (WG 140)</u></b>         |   |    |     |
| 32  | 45 x 30mm Angle section retro-fit stair nosing, in single<br>lengths, fitted with and including black self-adhesive<br>carborundum strip; nosing screwed to concrete/cement<br>screed (Number of lengths : 136) (Provisional) | m  | 182 |

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Section No. 2

BUILDING WORK

Bill No. 14

PLASTERING

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**200 x 200 x 6,5mm Grade 1 / Grade A white glazed ceramic tiles bedded solid in and including tile adhesive to cement plaster (cement plaster elsewhere measured) and joints between tiles flush pointed with and including tile grout in colour matching the colour of the tiles (PC amount for supply only of wall tiles is R140-00 per square metre excluding VAT)**

|   |    |   |    |     |
|---|----|---|----|-----|
| 1 | LI | On walls  | m2 | 403 |
| 2 | LI | On top of vanity slabs  | m2 | 6   |
| 3 | LI | On isolated panels, splash backs, etc. (Provisional)                              | m2 | 8   |
| 4 | LI | On isolated panels, splash backs, etc. not exceeding 1 square metre (Provisional) | m2 | 1   |
| 5 | LI | On narrow widths  | m2 | 10  |
| 6 | LI | Circular cutting to tiles   | m2 | 30  |

**FLOOR TILING**

**350 x 350 x 6,5mm Grade 1 / Grade A ceramic tiles bedded solid in and including tile adhesive to cement screed (cement screed elsewhere measured) and joints between tiles recessed pointed with and including tile grout in colour matching the colour of the tiles (PC amount for supply only of floor tiles is R220-00 per square metre excluding VAT)**

|    |    |                        |    |     |
|----|----|------------------------|----|-----|
| 7  | LI | On floors and landings | m2 | 957 |
| 8  | LI | On ramp                | m2 | 22  |
| 9  | LI | On risers 170mm high   | m  | 182 |
| 10 | LI | On treads 290mm wide   | m  | 159 |

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|    |    |  |    |       |
|----|----|--|----|-------|
|    |    | <b><u>350 x 350 x 6,5mm Grade 1 / Grade A ceramic tiles bedded solid in and including tile adhesive to cement plaster (cement plaster elsewhere measured) or face brick; joints between tiles recessed pointed with and including tile grout in colour matching the colour of the tiles (PC amount for supply only of floor tiles is R220-00 per square metre excluding VAT)</u></b> |    |       |
| 11 | LI | 75mm High skirting   | m  | 1,058 |
| 12 | LI | Skirting, 75mm high, stepped over treads and risers of stairs  | m  | 147   |
|    |    | <b><u>600 x 600mm glazed porcelain floor tiles fixed with adhesive to bedding (bedding elsewhere) and flush pointed with tinted waterproof jointing compound. The tenderer to allow an amount of R 250.00 per square meter (exclusive of VAT) for the supply of tiles only and include for all waste, transport, labour and profit in the applicable "rate" (Provisional)</u></b>    |    |       |
| 13 | LI | On floors  | m2 | 9     |
| 14 | LI | On risers 170mm high   | m  | 19    |
| 15 | LI | On treads 290mm wide   | m  | 19    |
|    |    | <b><u>TOILET PAPER HOLDERS, ETC</u></b>  |    |       |
|    |    | <b><u>White glazed ceramic soap dishes etc</u></b>   |    |       |
| 16 | LI | 150 x 150mm Recessed toilet paper holder   | No | 6     |

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BUILDING WORK

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| Item No   | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><b><u>SECTION NO. 2</u></b></p>  |          |      |        |
| <p><b><u>BILL NO. 16</u></b></p>  |          |      |        |
| <p><b><u>PLUMBING AND DRAINAGE (PROVISIONAL)</u></b></p>  |          |      |        |
| <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 148 for JBCC CPAP purposes</p>   |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>  |          |      |        |
| <p><u>General</u></p>   |          |      |        |
| <p>All work shall be carried out strictly according to the relevant SABS Specifications, Codes of Practice and Institutional requirements. The requirements of Institutional bodies such as the Local Authorities, etc shall be adhered to.</p> |          |      |        |
| <p><u>Wire gratings</u></p>   |          |      |        |
| <p>Descriptions of gutter outlets etc shall be deemed to include wire balloon gratings</p>  |          |      |        |
| <p><u>Exposed concrete surfaces</u></p>   |          |      |        |
| <p>Exposed surfaces of concrete stormwater channels, cover slabs, inspection eye marker slabs, gulley tops, cleaning eye tops, catchpits, inspection chambers, etc shall be finished smooth with plaster</p>                                    |          |      |        |
| <p><u>Stainless steel basins, sinks, wash troughs, urinals, etc</u></p>   |          |      |        |
| <p>Stainless steel for urinals, basins, quality sinks, wash troughs, institutional equipment, etc shall be Type 304 (18/8)</p>  |          |      |        |
| <p>Units shall have standard aprons on all exposed edges and tiling keys against walls where applicable</p>   |          |      |        |
| <p><b>Carried to Collection</b></p>   |          |      |        |
| <p>Section No. 2<br/>           BUILDING WORK<br/>           Bill No. 16<br/>           PLUMBING AND DRAINAGE (PROVISIONAL)<br/> <b>Keimoes Magistrate's office</b></p>   |          | R    |        |

Sealing of edges

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone

uPVC pipes and fittings

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

Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings

uPVC pressure pipes and fittings

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings

Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints

Copper pipes

Pipes shall be hard drawn and half-hard pipes of the class described. Class 0 (thin walled hard drawn) pipes shall not be bent. Class 1 (thin walled half-hard), Class 2 (half-hard) and Class 3 (heavy walled half-hard) pipes shall only be bent with benders with inner and outer formers. Fittings to copper waste, vent and anti-syphon pipes, capillary solder fittings and compression fittings shall comply to SANS 460. Capillary solder fittings shall comply with ISO 2016

Copper pipes are to be installed in accordance with the latest revision of the Code of Practice for Copper Plumbing soldering techniques. Flux, solder, etc to be strictly in accordance with the manufacturer's requirements with special attention to copper flux composition

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Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

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

Paper wrapping to pipes

Pipes chased into brickwork must be wrapped with two layers of stout brown paper tied with wire. Rates are to include for wrapping around joints and fittings

Disinfection of water pipework

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)

General

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

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

Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 90% Mod AASHTO density and disposal of surplus material on site

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

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured)

**RAINWATER DISPOSAL**

**0,6mm Galvanised sheet steel gutters and rainwater pipes**

|   |   |    |     |
|---|---|----|-----|
| 1 | 100 x 125mm Eaves gutters fixed to fascia with 100 x 125 x 3mm swivel gutter brackets | m  | 165 |
| 2 | Extra over eaves gutter for stopped end   | No | 24  |
| 3 | Extra for angle   | No | 9   |
| 4 | Extra over eaves gutter for outlet for 100 x 100mm pipe                               | No | 29  |
| 5 | 100 x 100mm rainwater pipes, fixed to walls   | m  | 230 |
| 6 | Extra for bend  | No | 3   |
| 7 | Extra over rainwater pipe for shoe  | No | 28  |
| 8 | Extra for eaves or plinth offset  | No | 17  |
| 9 | Extra for 500mm long spreader piece   | No | 16  |

**uPVC pipes**

|    |   |    |    |
|----|---|----|----|
| 10 | 110mm Diameter rainwater pipes cast in concrete or built into brickwork | m  | 39 |
| 11 | Extra over 110mm rainwater pipe for bend                                | No | 4  |
| 12 | 100mm Cast iron to PVC adaptor  | No | 6  |

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**Fullbore cast iron outlets**

|    |                              |    |    |
|----|------------------------------|----|----|
| 13 | 100mm vertical bottom outlet | No | 6  |
| 14 | 100mm 90 Degree side outlet  | No | 17 |

**SANITARY FITTINGS**

**Grade 304 (18/10) stainless steel**

|    |   |    |    |
|----|---|----|----|
| 15 | 900 x 500mm Stainless steel single bowl inset kitchen sink  | No | 2  |
| 16 | 1500 x 500mm Stainless steel double centre bowl inset kitchen sink  | No | 3  |
| 17 | 340 x 350mm Stainless steel vandal proof hand wash basin (drinking fountain) with push button tap, including 38mm outlet build into existing brick wall including all cutting and making good     | No | 10 |
| 18 | Vandal proof stainless steel wash down pan complete with weather proof external SABS Duranite vandal proof cistern and connection pipe and with 1.75" Hi Flo flush valve and push button assembly | No | 11 |

**White vitreous china**

|    |  |    |    |
|----|--|----|----|
| 19 | 595 x 455mm White vitreous china oval drop in vanity wash hand basin with semi punched tap holes   | No | 18 |
| 20 | 520 x 435 x 250mm White vitreous china wash hand basin with semi-punched tap holes bolted to wall  | No | 3  |
| 21 | 525 x 420mm White vitreous china wash hand basin with tap holes bolted to wall   | No | 6  |
| 22 | White vitreous china semi-close coupled wash down pan and matching 7 litre porcelain cistern complete with lid, fitments and sealing rings, with heavy duty plastic double flap seat and lid, installation to be according to manufacturers specifications | No | 17 |

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|  |   |    |    |   |
|--|---|----|----|---|
| 23   | White vitreous china paraplegic paraplegic 90° outlet P-trap wash down pan with matching 9 litre cistern complete with heavy duty white double flap seat and lid, fitments and purpose made chromium plated side flush lever mounted on wall adjacent to cistern, installation according to manufacturers specifications complete with chromium plated fixing bolts                               | No | 6  |   |
| 24   | White vitreous china urinal mounted to wall with two hanger brackets and with top inlet, supplied with 38mm chromium plated domical grating, chromium spreader, complete with flush pipe connector and outlet flange with rubber seal and chromium plated bolts with flush pipe, installation according to manufacturers specifications. (flush valve elsewhere measured)                         | No | 8  |   |
| 25   | Model CHC slop hopper with cowling size 540 x 540 x 415mm deep, 100mm integral splashback, outlet to suit standard 110mm PVC trap, integral flushing rim fitted with a 38 x 250mm long vertical flush pipe inlet, grating 540 x 540mm x 10mm thick hinged bucket grid fitted over funnel, fixed to wall with two 40mm square tube gallows brackets bolted with M6 stainless steel expanding bolts | No | 1  |   |
| <b><u>WASTE UNIONS ETC</u></b>   |   |    |    |   |
| <b><u>Waste unions, etc. with plug and chromium plated chain</u></b>   |   |    |    |   |
| 26   | 32mm Chromium plated basin waste union  | No | 37 |   |
| 27   | 40mm Chromium plated sink waste union   | No | 8  |   |
| <b><u>TRAPS ETC</u></b>  |   |    |    |   |
| 28   | 32mm Rubber basin deep seal "P" trap  | No | 10 |   |
| 29   | 40mm Rubber sink deep seal "P" trap   | No | 2  |   |
| 30   | 40 x 300mm Rubber sink combination for double bowl with deep seal "P" trap  | No | 3  |   |
| 31   | 32 x 40mm Chromium plated brass deep seal bottle trap with cleaning eye and screwed coupling  | No | 27 |   |
| 32   | 40 x 50mm Urinal chromium plated brass deep seal bottle trap with cleaning eye and screwed coupling   | No | 8  |   |
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**TAPS, VALVES, ETC**

|    |   |    |    |
|----|---|----|----|
| 33 | 15mm Brass stopcock   | No | 2  |
| 34 | 22mm Brass stopcock   | No | 2  |
| 35 | 50mm Brass fullway gate valve                                 | No | 9  |
| 36 | 15mm Brass hose bib tap                                       | No | 8  |
| 37 | 22mm Brass non-return valve                                   | No | 5  |
| 38 | 22mm Brass in-line strainer                                   | No | 2  |
| 39 | 22mm Brass vacuum breaker                                     | No | 2  |
| 40 | 22mm 400 KPa Pressure control valve                           | No | 2  |
| 41 | 50mm Brass high pressure float valve including ball           | No | 1  |
| 42 | 15mm Chromium plated extension piece with sliding wall flange | No | 10 |
| 43 | 22mm Chromium plated extension piece with sliding wall flange | No | 2  |
| 44 | 15mm Chromium plated angle regulating valve                   | No | 98 |
| 45 | 15mm Chromium plated compression type fullway ball valve      | No | 50 |
| 46 | 22mm Chromium plated compression type fullway ball valve      | No | 2  |
| 47 | 15mm Chromium plated bib tap                                  | No | 2  |
| 48 | 22mm Chromium plated bib tap                                  | No | 2  |
| 49 | 15mm Chromium plated single lever mixer pillar tap            | No | 42 |
| 50 | 15mm Chromium plated elbow action pillar tap                  | No | 12 |
| 51 | 15mm Chromium plated sink mixer                               | No | 5  |

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|--|---|----|-----|
| 52   | 20mm chromium plated urinal flush valve, exposed back entry type with integral vacuum breaker, butterfly valve and wallplate including flush pipe | No | 8   |
| <b><u>SANITARY PLUMBING</u></b>                                |   |    |     |
| <b><u>uPVC soil and vent pipes</u></b>                         |   |    |     |
| 53   | 50mm Pipes  | m  | 100 |
| 54   | 110mm Pipes   | m  | 958 |
| <b><u>Extra over uPVC soil and vent pipes for fittings</u></b> |   |    |     |
| 55   | 110mm Stop end  | No | 3   |
| 56   | 110mm Pan connector   | No | 34  |
| 57   | 110mm Bend pan connector  | No | 1   |
| 58   | 50mm Bend   | No | 90  |
| 59   | 50mm Access bend  | No | 97  |
| 60   | 110mm Access bend   | No | 14  |
| 61   | 110mm Access bend with anti-syphon horn   | No | 2   |
| 62   | 50mm Access junction  | No | 32  |
| 63   | 110mm Access junction   | No | 48  |
| 64   | 110mm Access reducing junction  | No | 40  |
| 65   | 110mm access reducing junction with anti-syphon horn  | No | 1   |
| 66   | 110mm Access cross junction   | No | 2   |
| 67   | 50mm Air vent cowl  | No | 2   |
| 68   | 110mm Air vent cowl   | No | 27  |

**WATER SUPPLY**

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|  |   |    |     |
|--|---|----|-----|
| <b><u>Class 2 copper pipes</u></b>   |   |    |     |
| 69   | 15mm Pipes  | m  | 151 |
| 70   | 15mm Pipes chased into brickwork including brown paper lagging and making good plastering | m  | 11  |
| 71   | 22mm Pipes  | m  | 140 |
| 72   | 22mm Pipes chased into brickwork including brown paper lagging and making good plastering | m  | 134 |
| 73   | 28mm Pipes  | m  | 25  |
| 74   | 28mm Pipes chased into brickwork including brown paper lagging and making good plastering | m  | 30  |
| <b><u>Extra over Class 2 copper pipes for capillary fittings</u></b>         |   |    |     |
| 75   | 15mm Fittings   | No | 361 |
| 76   | 22mm Fittings   | No | 144 |
| 77   | 28mm Fittings   | No | 15  |
| <b><u>Extra over Class 2 copper pipes for brass compression fittings</u></b> |   |    |     |
| 78   | 15mm Fittings   | No | 348 |
| 79   | 22mm Fittings   | No | 26  |
| 80   | 28mm Fittings   | No | 12  |
| <b><u>Galvanized mild steel pipes</u></b>                                    |   |    |     |
| 81   | 50mm Pipes  | m  | 56  |
| <b><u>Extra over galvanized mild steel pipes for fittings</u></b>            |   |    |     |
| 82   | 50mm Reducer  | No | 14  |
| 83   | 50mm Elbow  | No | 7   |
| 84   | 50mm Tee  | No | 11  |

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|  |  |        |
|--|--|--------|
| <b><u>Flexible service pipes</u></b>                             |  |        |
| 85   | 15mm Service pipe 350mm girth  | No 108 |
| <b><u>TESTING</u></b>  |  |        |
| 86   | Provide all necessary apparatus water, etc for and test the whole of the Sanitary Plumbing and Water Supply installation to the satisfaction of the Representative/Agent and Municipality, replace any defective work free of charge and leave perfect | Item   |
| <b><u>ELECTRIC WATER HEATERS</u></b>                             |  |        |
| 87   | 10 Litre under basin wall mounted electric water heater  | No 25  |
| <b><u>TANKS, ETC</u></b>   |  |        |
| <b><u>Hot-dip galvanised steel sectional water tanks etc</u></b> |  |        |
| 88   | 2440 x 2440 x 2440mm Tank with external flanges, flat top, valve box and hinged lockable manhole lid and ladders including installation raised approximately 8,3m above ground level and internal sterilization of tank                                | No 1   |
| <b><u>PIPE INSULATION</u></b>                                    |  |        |
| <b><u>Synthetic foam rubber material pipe insulation</u></b>     |  |        |
| 89   | Insulation 15mm thick to 15mm pipes  | m 27   |
| 90   | Insulation 15mm thick to 22mm pipes  | m 139  |
| 91   | Insulation 15mm thick to 28mm pipes  | m 25   |
| 92   | Insulation 15mm thick to 50mm pipes  | m 56   |
| <b><u>Extra over pipe insulation for insulation around</u></b>   |  |        |
| 93   | 15mm Fittings, valves, etc   | No 30  |
| 94   | 22mm Fittings, valves, etc   | No 108 |
| 95   | 28mm Fittings, valves, etc   | No 27  |

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|                                 |   |    |     |
|---------------------------------|---|----|-----|
| 96                              | 50mm Fittings, valves, etc  | No | 32  |
| <b><u>PAINT TO PIPEWORK</u></b> |   |    |     |
| 97                              | Prepare and paint high gloss enamel paint to PVC pipes not exceeding not exceeding 300mm girth        | m  | 100 |
| 98                              | Prepare and paint high gloss enamel paint to PVC pipes exceeding 100 and not exceeding 200mm diameter | m  | 35  |
| 99                              | Prepare and paint high gloss enamel paint to small copper pipe not exceeding 100mm diameter           | m  | 258 |

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 PLUMBING AND DRAINAGE (PROVISIONAL)  
**Keimoes Magistrate's office**

Section No. 2

BUILDING WORK

Bill No. 16

PLUMBING AND DRAINAGE (PROVISIONAL)

**COLLECTION**

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BUILDING WORK

Bill No. 16

PLUMBING AND DRAINAGE (PROVISIONAL)

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| Item No | <b><u>SECTION NO. 2</u></b>  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 17</u></b>  |          |      |        |
|         | <b><u>GLAZING</u></b>  |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 150 for JBCC CPAP purposes   |          |      |        |
|         | <b><u>GLAZING TO STEEL WITH PUTTY</u></b>  |          |      |        |
|         | <b><u>4mm Obscure glass</u></b>  |          |      |        |
| 1       | Panels exceeding 0,1 square metre and not exceeding 0,5 square metre   | m2       | 125  |        |
|         | <b><u>6mm Clear laminated safety glass</u></b>   |          |      |        |
| 2       | Panels exceeding 0,1 square metre and not exceeding 0,5 square metre   | m2       | 47   |        |
|         | <b><u>TOPS, SHELVES, DOORS, MIRRORS, ETC</u></b>   |          |      |        |
|         | <b><u>6 mm Silvered float glass copper backed mirrors with polished edges holed for and fixed with chromium plated dome capped mirror screws with rubber buffers to plugs in brickwork or concrete</u></b> |          |      |        |
| 3       | Mirror 450 x 600mm high  | No       | 21   |        |
| 4       | Mirror 500 x 900mm high  | No       | 6    |        |
|         | <b>Carried Forward to Summary of Section No. 2</b>   |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 17<br>GLAZING<br><b>Keimoes Magistrate's office</b>   |          |      |        |

| Item No | LI  | Quantity | Rate | Amount |
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|         | <b><u>SECTION NO. 2</u></b>   |          |      |        |
|         | <b><u>BILL NO. 18</u></b>   |          |      |        |
|         | <b><u>PAINTWORK</u></b>   |          |      |        |
|         | NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 152 for JBCC CPAP purposes  |          |      |        |
|         | <b><u>SUPPLEMENTARY PREAMBLES</u></b>   |          |      |        |
|         | All products for items in this bill to be SABS approved and it shall be deemed that the Tenderer allows in his pricing accordingly.<br>-----                                  |          |      |        |
|         | <b><u>PAINTWORK ETC TO NEW WORK</u></b>   |          |      |        |
|         | <b><u>ON CONCRETE</u></b>   |          |      |        |
|         | <b><u>Two coats clear, non-yellowing, UV-resistant, thermoplastic acrylic lacquer-based resin</u></b>   |          |      |        |
| 1       | On windows surrounds  | m2       | 17   |        |
| 2       | On grid infill panels to window surrounds (grid infill panels both sides measured over full flat area)  | m2       | 4    |        |
|         | <b><u>Three coats two component solvent based epoxy paint, including all necessary thinning, etc. in strict accordance to manufacturer's specifications (Provisional)</u></b> |          |      |        |
| 3       | On plinths  | m2       | 45   |        |
|         | <b><u>ON WOOD FLOATED PLASTER</u></b>   |          |      |        |
|         | <b>Carried to Collection</b>  |          |      | R      |
|         | Section No. 2<br>BUILDING WORK<br>Bill No. 18<br>PAINTWORK<br><b>Keimoes Magistrate's office</b>  |          |      |        |

|   |  |    |     |
|---|--|----|-----|
|   | <b><u>One coat alkali resistant primer, one universal undercoat and two coats extremely durable UV-resistant water based coating with a fine texture</u></b> |    |     |
| 4 | On external walls  | m2 | 404 |
| 5 | On external columns  | m2 | 29  |
| 6 | On plastered columns in face brick walls   | m2 | 200 |
| 7 | On external beams  | m2 | 189 |
| 8 | On external ceilings   | m2 | 7   |

**ON STEEL FLOATED PLASTER**

|    |   |    |       |
|----|---|----|-------|
|    | <b><u>One coat alkali resistant primer, one universal undercoat and two coats superior quality acrylic emulsion paint with smooth matt appearance</u></b>                     |    |       |
| 9  | On internal ceilings/soffits and beams  | m2 | 16    |
|    | <b><u>One coat alkali resistant primer, one universal undercoat and two coats highly washable and stain resistant acrylic emulsion paint with velvet sheen appearance</u></b> |    |       |
| 10 | On internal walls   | m2 | 3,128 |
| 11 | On internal columns   | m2 | 111   |
| 12 | On internal isolated and projecting beams   | m2 | 124   |
| 13 | On raking and stepped outer faces of stairs   | m2 | 1     |
| 14 | On sides of landings to stairs  | m2 | 0.3   |
| 15 | On internal ceilings/soffits and beams  | m2 | 256   |

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|    |   |    |     |
|----|---|----|-----|
|    | <b><u>One coat alkali resistant primer,, one universal undercoat and two coats highly washable and stain resistant non-drip polyurethane alkyd enamel paint with semi-gloss velvet appearance</u></b> |    |     |
| 16 | On internal walls   | m2 | 536 |
| 17 | On internal benches   | m2 | 30  |
| 18 | On internal ceilings and beams  | m2 | 116 |
|    | <b><u>ON GYPSUM PLASTER BOARD</u></b>   |    |     |
|    | <b><u>Two coats durable, easy cleanable, UV-resistant and smooth matt finished acrylic emulsion-based interior and exterior paint</u></b>   |    |     |
| 19 | On internal ceilings  | m2 | 12  |
|    | <b><u>ON FIBRE CEMENT</u></b>   |    |     |
|    | <b><u>Prepare and prime with plaster primer and two coats exterior quality premium polyurethane alkyd paint</u></b>   |    |     |
| 20 | On fascias and barge boards   | m2 | 96  |
| 21 | On eaves soffit coverings   | m2 | 88  |
|    | <b><u>ON FERROUS METAL</u></b>  |    |     |
|    | <b><u>One coat zinc phosphate alkyd resin primer, one coat universal alkyd based undercoat and two coats high quality alkyd based gloss enamel paint</u></b>  |    |     |
| 22 | On gates, grilles, burglar screens, balustrades, etc. (both sides measured over the full flat area)   | m2 | 29  |
| 23 | On balustrades (both sides measured over full flat area)  | m2 | 31  |
| 24 | On rails, bars, pipes, etc.   | m2 | 17  |
| 25 | On rails, bars, pipes, etc not exceeding 300 mm girth   | m  | 251 |

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|    |   |    |     |
|----|---|----|-----|
|    | <b><u>One full coat primer for galvanised iron, one universal undercoat and two coats eggshell enamel paint on galvanised steel</u></b> |    |     |
| 26 | On gutters  | m2 | 59  |
| 27 | On rainwater downpipes  | m2 | 92  |
|    | <b><u>ON FACTORY PRIMED METAL</u></b>   |    |     |
|    | <b><u>One coat universal alkyd based undercoat and two coats high quality alkyd based gloss enamel paint</u></b>                        |    |     |
| 28 | On door frames  | m2 | 228 |
| 29 | On transformer room doors, strongroom doors and frames  | m2 | 74  |
| 30 | On windows with burglar bars (both sides measured over full flat area)  | m2 | 250 |
|    | <b><u>ON WOOD</u></b>   |    |     |
|    | <b><u>Three coats water repellent timber preservative</u></b>   |    |     |
| 31 | On doors  | m2 | 438 |
|    | <b><u>One sealer coat before fixing, two sealer coats and two coats polyurethane clear varnish</u></b>                                  |    |     |
| 32 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth   | m  | 639 |
|    | <b><u>Stain and three coats matt polyurethane varnish on wood</u></b>   |    |     |
| 33 | On skirtings, rails, surrounds, cappings, etc not exceeding 300mm girth   | m  | 338 |

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Prepare surfaces, spot prime defects in pre-primed surfaces with one coat wood primer and apply one coat universal undercoat and two coats 'Plascon Velvagio' enamel paint

On general surfaces of timber at eaves  
(Provisional)

m2

30

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| 4       | MASONRY  | 62      |        |
| 5       | WATERPROOFING                                      | 66      |        |
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| 7       | CARPENTRY AND JOINERY                              | 83      |        |
| 8       | JOINERY FITTINGS                                   | 118     |        |
| 9       | CEILINGS, PARTITIONS AND ACCESS FLOORING           | 127     |        |
| 10      | FLOOR COVERINGS, PLASTIC LININGS, ETC              | 130     |        |
| 11      | IRONMONGERY  | 139     |        |
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| 13      | METALWORK  | 178     |        |
| 14      | PLASTERING   | 182     |        |
| 15      | TILING   | 186     |        |
| 16      | PLUMBING AND DRAINAGE (PROVISIONAL)                | 198     |        |
| 17      | GLAZING  | 199     |        |
| 18      | PAINTWORK  | 205     |        |

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# **SECTION 3**

# **EXTERNAL WORK**

| Item No | LI  | Quantity   | Rate | Amount |
|---------|---|--|------|--------|
|         | <p><b><u>SECTION NO. 3</u></b></p> <p><b><u>EXTERNAL WORKS</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>GENERAL SITE WORKS, PAVINGS, FENCING AND SCREEN WALLS</u></b></p> <p><b><u>EARTHWORKS (WG 104)</u></b></p> <p><b><u>SITE CLEARANCE</u></b></p>                            |  |      |        |
| 1       | LI  | Digging up and removing rubbish, debris, vegetation, hedges, shrubs, bush, etc and trees not exceeding 200mm girth   | m2   | 1,590  |
|         | <p><b><u>REMOVAL OF TREES ETC</u></b></p> <p><b><u>Cutting down and removing, grubbing up roots, filling in holes and compacting to 98% Mod AASHTO density</u></b></p>  |  |      |        |
| 2       | LI  | Tree consisting of three trunks, two trunks each exceeding 2000mm and not exceeding 2500mm girth and the third trunk exceeding 3000mm and not exceeding 3500mm girth | No   | 1      |
|         | <p><b><u>REMOVAL OF EXISTING WORK</u></b></p> <p><b><u>Breaking up and removing</u></b></p>   |  |      |        |
| 3       | LI  | One brick boundary walls 2,4m high   | m    | 18     |
|         | <p><b><u>Breaking out for and forming plain openings through brick walls, including prestressed concrete lintels, making good cement plaster on both sides and into reveals and with 20 MPa concrete thresholds with steel trowelled finish (making good paintwork elsewhere)</u></b></p> |  |      |        |
| 4       |   | Opening 1,5 x 2.1mm high through one brick wall  | No   | 1      |
|         | <b>Carried to Collection</b>  |  |      | R      |
|         | <p>Section No. 3<br/>           EXTERNAL WORK<br/>           Bill No. 1<br/>           GENERAL SITEWORKS, FENCING AND SCREE<br/> <b>Keimoes Magistrate's office</b></p>   |  |      |        |

**EXCAVATION, FILLING, ETC**

**Excavation in earth not exceeding 2m deep**

|   |    |          |    |    |
|---|----|----------|----|----|
| 5 | LI | Trenches | m3 | 21 |
|---|----|----------|----|----|

|   |    |       |    |    |
|---|----|-------|----|----|
| 6 | LI | Holes | m3 | 13 |
|---|----|-------|----|----|

**Open face excavation not exceeding 2m deep**

|   |  |  |    |    |
|---|--|--|----|----|
| 7 |  | Reduced levels under pavings over site between buildings, retaining walls, etc | m3 | 88 |
|---|--|--|----|----|

**Extra over hole and trench excavation in earth for excavation in**

|   |  |           |    |    |
|---|--|-----------|----|----|
| 8 |  | Soft rock | m3 | 17 |
|---|--|-----------|----|----|

|   |  |           |    |   |
|---|--|-----------|----|---|
| 9 |  | Hard rock | m3 | 8 |
|---|--|-----------|----|---|

**Extra over bulk excavation in earth for excavation in**

|    |  |           |    |   |
|----|--|-----------|----|---|
| 10 |  | Soft rock | m3 | 9 |
|----|--|-----------|----|---|

|    |  |           |    |    |
|----|--|-----------|----|----|
| 11 |  | Hard rock | m3 | 26 |
|----|--|-----------|----|----|

**Extra over all excavations for carting away**

|    |  |  |    |    |
|----|--|--|----|----|
| 12 |  | Surplus material from excavations and/or stock piles on site to a dumping site to be located by the contractor | m3 | 51 |
|----|--|--|----|----|

**Risk of collapse of excavations**

|    |  |  |    |     |
|----|--|--|----|-----|
| 13 |  | Sides of trench and hole excavations not exceeding 1,5m deep | m2 | 101 |
|----|--|--|----|-----|

**Keeping excavations free of water**

|    |  |   |  |      |
|----|--|---|--|------|
| 14 |  | Keeping excavations free of all water other than subterranean water |  | Item |
|----|--|---|--|------|

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|    |  |    |     |
|----|--|----|-----|
|    | <b><u>Earth filling obtained from the excavations and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>  |    |     |
| 15 | Backfilling to trenches, holes, etc  | m3 | 18  |
|    | <b><u>Earth filling supplied by the contractor under pavings etc</u></b>   |    |     |
| 16 | Sub-base of G5 material in accordance with SABS 1200 DM compacted to 98% Mod AASHTO density in 150mm thick layers  | m3 | 88  |
|    | <b><u>Sand filling</u></b>   |    |     |
| 17 | 50mm thick dry, clean, washed riversand layer evenly spread  | m2 | 303 |
|    | <b><u>Compaction of surfaces</u></b>   |    |     |
| 18 | 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 95% Mod AASHTO density                | m2 | 293 |
|    | <b><u>Weedkiller (active ingredients metalaclor 102,8 g/l, terbitilasien 248,6 g/l and atrasien 248,6 g/l) mixed in the proportion of 100 ml weedkiller to 100 l water and applied at a rate of 10 l/m<sup>2</sup></u></b> |    |     |
| 19 | Under pavings, etc and sprayed over previously wetted ground   | m2 | 254 |
|    | <b><u>Soil insecticide</u></b>   |    |     |
| 20 | To bottoms and sides of trenches etc   | m2 | 69  |
|    | <b><u>Prescribed density tests on filling</u></b>  |    |     |
| 21 | "Modified AASHTO Density" test   | No | 5   |

**CONCRETE (WG 110)**

**UNREINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

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|----|----|--|----|-----|
|    |    | <b><u>25MPa/19mm concrete</u></b>  |    |     |
| 22 | LI | Aprons   | m3 | 5   |
| 23 | LI | Strip footings   | m3 | 7   |
| 24 | LI | Column bases   | m3 | 4   |
|    |    | <b><u>REINFORCED CONCRETE</u></b>  |    |     |
|    |    | <b><u>25MPa/19mm concrete</u></b>  |    |     |
| 25 |    | Columns  | m3 | 0.1 |
|    |    | <b><u>TEST BLOCKS</u></b>  |    |     |
| 26 |    | Making and testing set of three 150 x 150 x 150mm concrete strength test cubes             | No | 4   |
|    |    | <b><u>CONCRETE SUNDRIES</u></b>  |    |     |
|    |    | <b><u>Finishing top surfaces of concrete smooth with a wood float</u></b>                  |    |     |
| 27 |    | Aprons to falls  | m2 | 39  |
|    |    | <b><u>FORMWORK (WG 111)</u></b>  |    |     |
|    |    | <b><u>ROUGH FORMWORK (DEGREE OF ACCURACY II)</u></b>                                       |    |     |
|    |    | <b><u>Rough formwork to sides</u></b>  |    |     |
| 28 |    | Square columns   | m2 | 2   |
| 29 |    | Edges, risers, ends and reveals not exceeding 300mm high or wide                           | m  | 125 |
|    |    | <b><u>MOVEMENT JOINTS ETC</u></b>  |    |     |
|    |    | <b><u>Expansion joints with softboard between vertical concrete and brick surfaces</u></b> |    |     |
| 30 |    | 20mm Joint not exceeding 300mm high  | m  | 123 |

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|----|----|--|----|-----|
|    |    | <b><u>Two-part grey polysulphide sealing compound including backing cord, bond breaker, primer, etc</u></b>  |    |     |
| 31 |    | 10 x 10mm In expansion joints in floors  | m  | 123 |
|    |    | <b><u>PRECAST CONCRETE (WG 112)</u></b>  |    |     |
|    |    | <b><u>PAVING</u></b>   |    |     |
|    |    | <b><u>80mm Standard grey and red double zig-zag interlocking precast concrete paving blocks laid to pattern, on 25mm riversand bed with sand sept into joints</u></b>  |    |     |
| 32 | LI | Paving to roads to falls   | m2 | 141 |
| 33 | LI | Extra for edge blocks  | m  | 69  |
| 34 | LI | 250 x 100mm 30MPa unreinforced concrete edging cast in-situ including excavations, formwork, etc   | m  | 69  |
|    |    | <b><u>Combined mountable kerb and channel consisting 250 x 125mm thick 25MPa cast in-situ channel with joints at maximum 2m centres and precast concrete kerb (SABS 927 fig 8) 300 x 150mm high, with 150 x 150 x 300mm unreinforced concrete haunching at back of each joint including finishing smooth on all exposed surfaces, excavation, backfilling, jointing, pointing, bedding in cement mortar, etc</u></b> |    |     |
| 35 | LI | Straight kerbing and channelling   | m  | 25  |
| 36 | LI | Curved kerbing and channelling of radius exceeding 4m  | m  | 5   |
|    |    | <b><u>BRICKWORK (WG 116)</u></b>   |    |     |
|    |    | <b><u>Brickwork of NFP bricks in class II mortar</u></b>   |    |     |
| 37 | LI | Half brick linings to concrete columns and beams   | m2 | 6   |
| 38 | LI | One brick walls  | m2 | 90  |

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|--|----|--|----|-----|
| 39   | LI | One brick walls in foundations                                 | m2 | 26  |
| 40   | LI | One brick wide x one brick projecting pilasters                | m  | 41  |
| 41   | LI | One brick wide x one brick projecting pilasters in foundations | m  | 15  |
| <b><u>BRICKWORK SUNDRIES</u></b>   |    |  |    |     |
| <b><u>Brickwork reinforcement</u></b>  |    |  |    |     |
| 42   |    | 150mm Wide reinforcement built in horizontally                 | m  | 499 |
| <b><u>MOVEMENT JOINTS ETC</u></b>  |    |  |    |     |
| <b><u>Expansion joints with 15mm Jointex or bitumen impregnated softboard between vertical brickwork surfaces</u></b>  |    |  |    |     |
| 43   |    | Joints exceeding 300mm high or wide                            | m2 | 12  |
| <b><u>FACE BRICKWORK</u></b>   |    |  |    |     |
| <b><u>External facings in approved face bricks (FBX) with a PC Amount of R 9,100.00 per thousand bricks delivered to site (excluding VAT) pointed with recessed horizontal and vertical joints</u></b>           |    |  |    |     |
| 44   |    | Extra over brickwork for face brickwork                        | m2 | 206 |
| 45   |    | Extra over brickwork for face brickwork to piers               | m2 | 21  |
| 46   |    | Coping on top of 444 x 459mm columns                           | No | 9   |
| <b><u>Brick-on-edge header course copings, sills, etc of face bricks with a PC amount of R 9 100.00 per thousand delivered on site (excluding VAT) and pointed with recessed joints on all exposed faces</u></b> |    |  |    |     |
| 47   |    | Coping on top of one brick wall                                | m  | 34  |

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|----|---|----|-----|
|    | <b><u>Paving of 220 x 108.5 x 50mm thick brick paving blocks with a PC amount of R 6,800.00 per 1000 bricks delivered on site (excluding VAT), butt joints on 30mm thick river sand bed with sand-and-cement mixture swept into joints and hosed down, including preparation of ground or filling</u></b> |    |     |
| 48 | Paving to side walks and walkways to falls  | m2 | 123 |
| 49 | Extra for edge blocks   | m  | 140 |
| 50 | 200mm Wide brick-on-flat header course edging on 50mm thick mortar bed  | m  | 140 |

**WATERPROOFING (WG 112)**

**One layer of 375 micron black embossed polyethylene damp-proof course (SANS 952-1985 Type B)**

|    |          |    |   |
|----|----------|----|---|
| 51 | In walls | m2 | 9 |
|----|----------|----|---|

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

|    |                                    |    |     |
|----|------------------------------------|----|-----|
| 52 | Under pavings, aprons and walkways | m2 | 303 |
|----|------------------------------------|----|-----|

**METALWORK (WG 136)**

**Carried to Collection**

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**FENCING**

Security fence 2400mm high formed of:

- Panels shall be 3305mm wide with standard option pressed high density galvanised mesh formed of 3mm thick high tension steel with aperture size 76,2mm x 12,7mm and panel reinforced with 4 x 50mm deep "V" formation horizontal recessed bands and 2 x 75mm 70 degree flanges along sides and 1 x 90degree flanges along top and 1 x 30degree flange along toe and panel post shall have a flush panel post finish. Panel shall be affixed to post over 48 wires using 8 double clamps, 8 single clamps and 24 anti vandal bolts
- Post shall be 85mm tapering to 45mm with a depth of 85mm and included "Locking Recess Mechanism" to secure panel edge and sealed with UV stabilised polymer end cap
- post to be embedded into and including 15MPa concrete footing size 400 x 400 x 600mm deep
- 100mm high galvanised "shark tooth" type spikes rails bolted to 50mm wide mesh flange bent along fence top
- anti burrow at bottom formed of 600mm mesh extension
- Fixed strictly according to the manufacturers specification.

m

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**GATES, FRAMES, ETC**

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|    |  |    |   |                                      |
|----|--|----|---|--------------------------------------|
| 54 | <p><b><u>Welded mild steel gates and frames</u></b></p> <p>Frame size 4027 x 2400mm overall for double gate formed of two posts formed of 75 x 75 x 4,5mm x 2400mm long hollow section mild steel and close ends with 75 x 75 x 2mm plate and each post with twelve 50 x 50 x 3mm angle section lugs 50mm long welded to post and fixed with 10mm full threaded bolt chemically anchored to wall, complete with four heavy duty hinges welded to 40 x 8mm flat sheet to each post (G3 elsewhere measured)</p>  | No | 1 |                                      |
| 55 | <p>Double swing gate size 3877 x 2400mm overall in two equal leaves, each leaf formed of 75 x 50 x 2mm hollow section welded mild steel frame and two horizontal rails, filled in with 19,05 x 19,05 x 1,6mm mild steel hollow section tubing at 95mm centres welded to frame and rails and with 16mm diameter mild steel rod 180mm girth bended to form pull handle and welded onto 50 x 4mm flat base 200mm long welded to each leave and with 40 x 40 x 40mm long mild steel angle iron bracket to receive padlock (G3)</p>                                   | No | 1 |                                      |
| 56 | <p>Sliding vehicle gate size 5200 x 2400mm high (G4) formed of 76,2 x 50,8 x 2mm mild steel rectangular tubing frame and two horizontal rails and filled in with 19,05 x 19,05 x 1,6mm mild steel square tubing vertical rails on 95mm centres complete with 76 x 76mm posts and U-shape top guide with roller wheel and brackets including 2 x V-profile double bearing heavy duty wheels and bottom guide formed of 16mm round bar welded onto 50 x 50 x 5mm angle iron cast into concrete and prepare for motorized security control (elsewhere measured)</p> | No | 1 |                                      |
|    | <p><b><u>Hot-dipped galvanised steel grill gates and frames</u></b></p> <p>NOTE:<br/>Gate G1 to be constructed similar to cell block gates. Lugs to frame as specified in detail on standard drawing POL 2012/D1 and door hinges as specified on drawing POL 2012/D4</p> <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 3<br/>EXTERNAL WORK<br/>Bill No. 1<br/>GENERAL SITEWORKS, FENCING AND SCREE<br/><b>Keimoes Magistrate's office</b></p>   |    |   | <p style="text-align: center;">R</p> |

|  |   |    |   |
|--|---|----|---|
| 57   | Fully galvanised double swing gate size 1700 x 2580mm overall in two equal leaves, each leaf formed of 50 x 50 x 1,5mm square tubing welded frame and horizontal middle rail, filled in with 5 x 16mm diameter solid mild steel vertical rails welded on and complete with 4 x cell gate type hinges to each leaf and with 3 x 12mm diameter x 250mm girth heavy duty barrel bolts welded on and locking plate (G1) | No | 1 |
| 58   | Fully galvanised frame size 1800 x 2630mm overall for double gate with frame formed of 50 x 50 x 1,5mm welded hollow section steel, fixed to concrete or brickwork with 200 x 25 x 2mm mild steel lugs and 10mm diameter expansion bolts (G1 elsewhere measured)  | No | 1 |
| <b><u>Sundries</u></b>   |   |    |   |
| 59   | 200mm Galvanised heavy duty barrel bolt welded onto gate style  | No | 2 |
| 60   | 51mm brass five pin tumbler close shackle type padlock with hardened steel shackle and two keys as type PWD 31  | No | 4 |
| 61   | Complete heavy duty industrial gate opening motor for 5,2m wide x 2,4m high sliding gate complete with tooth rack and anti-theft bracket and with automatic remote controls opening system, intercom cable from motor to security/info room, infrared safety beams, access control devices, etc (G4)  | No | 1 |
| <b><u>FLAG POLES</u></b>   |   |    |   |
| 62   | Standard ground outdoor flagpole 9000mm long formed of powder coated mild steel, complete with and including pulleys, finials, rope, cleats and hinge base plate and galvanised steel foundation cage; base plate cage cast into and including 20mPa unreinforced concrete footing, size 500 x 750 x 500mm thick, including all excavations, ramming, backfilling, formwork, etc.                                   | No | 2 |
| <b><u>PAINTWORK (WG 152)</u></b>   |   |    |   |
| <b>Carried to Collection</b>   |   |    |   |
| Section No. 3<br>EXTERNAL WORK<br>Bill No. 1<br>GENERAL SITEWORKS, FENCING AND SCREE<br><b>Keimoes Magistrate's office</b> |   |    |   |
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|    |    |  |    |    |
|----|----|--|----|----|
|    |    | <b><u>Prepare surfaces and remove all loose material, rust, scale, dust, grease, salts, etc and apply one coat metal primer, one coat universal undercoat and one coat alkyd gloss enamel paint on steel</u></b> |    |    |
| 63 | LI | On steel gates and framing (both sides measured)   | m2 | 44 |
| 64 | LI | On steel frames not exceeding 300mm girth  | m  | 7  |

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Section No. 3

EXTERNAL WORK

Bill No. 1

GENERAL SITEWORKS, FENCING AND SCREEN WALLS

**COLLECTION**

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**Amount**

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Section No. 3

EXTERNAL WORK

Bill No. 1

GENERAL SITEWORKS, FENCING AND SCREE

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| Item No | LI  | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <p><b><u>SECTION NO. 3</u></b></p> <p><b><u>BILL NO. 2</u></b></p> <p><b><u>STORMWATER DRAINAGE, SOIL DRAINAGE AND WATER SUPPLY (PROVISIONAL)</u></b></p> <p>NOTE: Unless otherwise stated herein, all items in this bill shall be deemed to fall into Work Group No 146 for JBCC CPAP purposes</p> <hr/> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><u>uPVC pipes and fittings</u></p> <p>Sewer and drainage pipes and fittings shall be jointed and sealed with butyl rubber rings</p> <p>Soil, waste and vent pipes and fittings shall be solvent weld jointed or sealed with butyl rubber rings</p> <p><u>uPVC pressure pipes and fittings</u></p> <p>Pipes of 50mm diameter and smaller shall be plain ended with solvent welded uPVC loose sockets and fittings</p> <p>Pipes of 63mm diameter and greater shall have sockets and spigots with push-in type integral rubber ring joints. Bends shall be uPVC and all other fittings shall be cast iron, all with similar push-in type joints</p> <p><u>High density polyethylene (HDPE) pipes and fittings</u></p> <p>Pipes shall be type IV and of the class specified with compression fittings</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 3<br/>EXTERNAL WORK<br/>Bill No. 2<br/>STORMWATER AND SOIL DRAINAGE, WATER<br/><b>Keimoes Magistrate's office</b></p> |          |      |        |
|         |   |          | R    |        |

Reducing fittings

Where fittings have reducing ends or branches they are described as "reducing" and only the largest end or branch size is given. Should the contractor wish to use other fittings and bushes or reducers he may do so on the understanding that no claim in this regard will be entertained

Fixing of pipes

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

Disinfection of water pipework

Water pipework is to be disinfected at completion in accordance with SABS 1200L (provision for disinfection elsewhere)

Laying, backfilling, bedding, etc of pipes

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

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

SABS 1200L : Medium-pressure pipelines

SABS 1200LD : Sewers

SABS 1200LE : Stormwater drainage

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

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

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

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General

Descriptions of pipes laid in and including trenches and of inspection chambers, catch pits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 93% Mod AASHTO density and disposal of surplus material on site

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

**STORMWATER DRAINAGE**

NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density

**Heavy duty (Class 34) PVC-U sewer and drain pipes**

|  |    |   |    |    |
|--|----|---|----|----|
| 1  | LI | 200mm Pipes laid in and including trenches not exceeding 1m deep          | m  | 86 |
| 2  | LI | 250mm Pipes laid in and including trenches not exceeding 1m deep          | m  | 28 |
| 3  | LI | 300mm Pipes laid in and including trenches not exceeding 1m deep          | m  | 12 |
| <b><u>Sump. catchpits, etc including excavations, 100mm thick 20MPa concrete bottom, one brick walls with plaster to inside and 100mm thick concrete coping slab rebated all round</u></b> |    |   |    |    |
| 4  | LI | Rainwater sump 600 x 600mm and exceeding 500 and not exceeding 750mm deep | No | 2  |
| 5  | LI | Catchpit 600 x 600mm and exceeding 500 and not exceeding 750mm deep       | No | 9  |
| 6  | LI | Catchpit 600 x 600mm and exceeding 750 and not exceeding 1000mm deep      | No | 4  |

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|    |  |    |      |           |
|----|--|----|------|-----------|
|    | <b><u>Cast iron gratings, covers, etc</u></b>  |    |      |           |
| 7  | 600 x 600mm x 50kg Cast iron dished grating and frame  | No | 15   |           |
| 8  | 325mm Wide type hot dipped galvanised steel gratings with 40 x 4,5mm cross bars and 25 x 4,5mm longitudinal bars, of banded panels in suitable lengths                           | m  | 3    |           |
| 9  | 45 x 45 x 5mm Hot dipped galvanised angle section steel bearers with 25 x 5mm flat section bent lugs each 75mm girth welded on at 500mm centres, including embedding in concrete | kg | 21   |           |
|    | <b><u>Municipal connection</u></b>   |    |      |           |
| 10 | Provide the sum of R17,285.40 (Seventeen Thousand Two Hundred and Eighty Five and Forty Rand) net for the Municipal Stormwater Connection  |    | Item | 17,285.40 |
| 11 | Allow for profit   |    |      | %         |
| 12 | Allow for attendance   |    |      | %         |
|    | <b><u>SUNDRIES</u></b>   |    |      |           |
| 13 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock  | m3 | 8    |           |
| 14 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock  | m3 | 23   |           |
| 15 | Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor                                       | m3 | 31   |           |
| 16 | Extra over backfilling to drain trenches, chambers, etc for suitable earth backfilling supplied by the contractor  | m3 | 31   |           |
| 17 | Concrete encasing to 250mm horizontal pipes  | m  | 28   |           |
|    | <b>Carried to Collection</b>   |    |      | R         |
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| <b><u>Concrete stormwater channels</u></b>  |    |   |       |
|---|----|---|-------|
| 18  | LI | 500 x 325mm Channel with segmental channel formed therein and finished smooth on exposed surfaces including two Y12 steel reinforcing bars, including necessary excavation and formwork | m 78  |
| 19  |    | Extra over for angles, intersections, ends, etc   | No 12 |
| 20  | LI | 525 x 400mm Channel with square channel formed therein and finished smooth on exposed surfaces including three Y10 steel reinforcing bars, including necessary excavation and formwork  | m 3   |
| 21  |    | Extra over for angles, intersections, ends, etc   | No 2  |
| <b><u>SUBSOIL DRAINAGE</u></b>  |    |   |       |
| <b><u>Subsoil drainage</u></b>  |    |   |       |
| 22  |    | 150mm slotted uPVC agricultural pipes laid in stone encasing prior to backfilling (encasing and backfill elsewhere)   | m 77  |
| 23  |    | 19mm crushed stone encasing to pipes  | m3 7  |
| 24  |    | Geofabric filter blanket wrapped around 300 x 300mm stone encasing  | m2 92 |
| <b><u>SOIL DRAINAGE</u></b>   |    |   |       |
| NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density |    |   |       |
| <b><u>Heavy duty (Class 34) PVC-U sewer and drain pipes</u></b>   |    |   |       |
| 25  |    | 110mm Pipes vertically or ramped to cleaning eyes etc (no excavation)   | m 10  |
| 26  | LI | 110mm Pipes laid in and including trenches not exceeding 1m deep  | m 116 |
| 27  | LI | 110mm Pipes laid in and including trenches exceeding 1m and not exceeding 2m deep   | m 26  |

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|----|---|---|----|----|
|    | <b><u>Extra over heavy duty (Class 34) PVC-U sewer and drain pipes for fittings</u></b> |   |    |    |
| 28 |   | 110mm Bend  | No | 6  |
| 29 |   | 110mm Access bend   | No | 9  |
| 30 |   | 110mm Access junction   | No | 12 |
| 31 |   | 110mm Reducing access junction  | No | 4  |
| 32 |   | 110mm Rodding eye cover and frame with 300 x 300 x 300 mm concrete surround   | No | 9  |
|    |   | <b><u>uPVC gulleys</u></b>  |    |    |
| 33 |   | 110mm 'P' trap gulley, including gulley head and grating, including excavating for, bedding on and encasing in 15MPa/19mm mass concrete and fitted with precast concrete gulley top, not exceeding 500mm deep.  | No | 8  |
|    |   | <b><u>Inspection chambers</u></b>   |    |    |
|    |   | Inspection chamber formed of 85mm cement concrete bottom and 230mm brick sides in cement mortar, the bottom steeply benched up in cement concrete to sides of manhole from edges to uPVC channels and finished internally in 3:1 cement plaster with angles rounded and with 125mm concrete class C top, finished on exposed surfaces in untinted granolithic with angles rounded and rebated for cover and frame (elsewhere measured) with cover bedded in tallow and frame in cement mortar |    |    |
| 34 | LI  | Inspection chamber 380 x 540mm internally and not exceeding 750mm deep internally (cover elsewhere)   | No | 4  |
| 35 | LI  | Inspection chamber 380 x 540mm and exceeding 750mm and not exceeding 1 000mm deep (cover elsewhere)   | No | 1  |
| 36 | LI  | Inspection chamber 380 x 540mm and exceeding 1000mm and not exceeding 1 250mm deep (cover elsewhere)  | No | 1  |
|    |   | <b>Carried to Collection</b>  |    |    |
|    |   | Section No. 3<br>EXTERNAL WORK<br>Bill No. 2<br>STORMWATER AND SOIL DRAINAGE, WATER<br><b>Keimoes Magistrate's office</b>   |    |    |
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|    |   |    |    |   |
|----|---|----|----|---|
|    | <b><u>Cast iron covers etc</u></b>  |    |    |   |
| 37 | 450 x 600mm x 72kg cast iron type 8A double seal manhole cover and frame  | No | 4  |   |
| 38 | 550mm Diameter x 75kg cast iron type 4A road manhole cover and frame  | No | 2  |   |
| 39 | Lifting-key for manhole cover (handed to employer)  | No | 1  |   |
|    | <b><u>SUNDRIES</u></b>  |    |    |   |
| 40 | Temporary orange and yellow barrier mesh netting 1m high fixed to poles at 1,5m centres, etc. to sides of trenches in public roads  | m  | 16 |   |
| 41 | Hacking up/off and removing 50mm thick bituminous premix road surfacing in patches  | m2 | 12 |   |
| 42 | 50mm Thick paving to parking areas, including bitumin spray to base course in patches   | m2 | 12 |   |
| 43 | Filling of imported selected G5 gravel material and compacted in 150mm layers to 93% modified AASHTO density, including stabilisation with lime (cement) PI<6 stabilized 3% = C4, in public roads | m3 | 6  |   |
| 44 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock   | m3 | 8  |   |
| 45 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock   | m3 | 25 |   |
| 46 | Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor  | m3 | 34 |   |
| 47 | Extra over backfilling to drain trenches, chambers, etc for suitable earth backfilling supplied by the contractor   | m3 | 34 |   |
| 48 | Concrete encasing to 160mm horizontal pipes   | m  | 29 |   |
|    | <b>Carried to Collection</b>  |    |    | R |
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|    |   |    |      |   |           |
|----|---|----|------|---|-----------|
|    | <b><u>Testing</u></b>   |    |      |   |           |
| 49 | Testing soil drainage system  |    | Item |   |           |
|    | <b><u>Municipal Connection</u></b>  |    |      |   |           |
| 50 | Provide the sum of R28,809.00 (Twenty Eight Thousand Eight Hundred and Nine Rand) net for the Municipal Sewer Connection  |    | Item |   | 28,809.00 |
| 51 | Allow for profit  |    |      | % |           |
| 52 | Allow for attendance  |    |      | % |           |
|    | <b><u>WATER SUPPLIES</u></b>  |    |      |   |           |
|    | NOTE : All excavations are measured as being in "earth" and/or filling compacted to 98% modified AASHTO density           |    |      |   |           |
|    | <b><u>Class 16 PVC-U pressure pipes with solvent welded joints</u></b>  |    |      |   |           |
| 53 | LI 75mm Pipes laid in and including trenches not exceeding 1m deep  | m  | 68   |   |           |
|    | <b><u>Extra over Class 16 PVC-U pressure pipes for fittings with solvent welded joints</u></b>                            |    |      |   |           |
| 54 | 75mm Bend   | No | 3    |   |           |
|    | <b><u>Extra over Class 16 PVC-U pressure pipes for cast iron pressure fittings</u></b>                                    |    |      |   |           |
| 55 | 75mm Reducer and connection between PVC-U and HDPE pipe   | No | 1    |   |           |
| 56 | 75mm Tee  | No | 1    |   |           |
| 57 | 75mm Reducing tee and connection between PVC-U and HDPE pipe  | No | 2    |   |           |
| 58 | 75mm Connection between uPVC and galvanised pipe  | No | 1    |   |           |
|    | <b>Carried to Collection</b>  |    |      |   |           |
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|----|----|---|----|----|---|
|    |    | <b><u>Class 10 HDPE type IV pipes</u></b>   |    |    |   |
| 59 | LI | 32mm Pipes laid in and including trenches not exceeding 1m deep   | m  | 19 |   |
| 60 | LI | 50mm Pipes laid in and including trenches not exceeding 1m deep   | m  | 94 |   |
|    |    | <b><u>Extra over Class 10 HDPE type IV pipes for compression fittings</u></b>   |    |    |   |
| 61 |    | 32mm Stop end   | No | 1  |   |
| 62 |    | 50mm Stop end   | No | 1  |   |
| 63 |    | 32mm Bend   | No | 2  |   |
| 64 |    | 50mm Bend   | No | 5  |   |
| 65 |    | 32mm Tee  | No | 1  |   |
| 66 |    | 50mm Tee  | No | 1  |   |
| 67 |    | 32mm connection between HDPE and galvanised pipe  | No | 1  |   |
|    |    | <b><u>Galvanized mild steel pipes</u></b>   |    |    |   |
| 68 |    | 75mm Pipes  | m  | 9  |   |
|    |    | <b><u>Extra over galvanized mild steel pipes for fittings</u></b>   |    |    |   |
| 69 |    | 75mm Bend   | No | 4  |   |
|    |    | <b><u>VALVES, ETC</u></b>   |    |    |   |
|    |    | <u>Valves, etc. including joints to pipes and/or fittings</u>   |    |    |   |
| 70 |    | 32mm Gate valve including connections to pipe   | No | 1  |   |
| 71 |    | 50mm Gate valve including connections to pipe   | No | 1  |   |
| 72 |    | 75mm Gate valve including connections to pipe   | No | 3  |   |
|    |    | <b>Carried to Collection</b>  |    |    | R |
|    |    | Section No. 3<br>EXTERNAL WORK<br>Bill No. 2<br>STORMWATER AND SOIL DRAINAGE, WATER<br><b>Keimoes Magistrate's office</b> |    |    |   |

|    |  |      |      |   |
|----|--|------|------|---|
|    | <b><u>Water meter</u></b>  |      |      |   |
| 73 | 50mm Water meter including connections to pipe   | No   | 1    |   |
| 74 | 75mm Water meter including connections to pipe   | No   | 3    |   |
|    | <b><u>STOPCOCK BOXES, ETC</u></b>  |      |      |   |
|    | <u>Precast concrete circular valve chambers including precast concrete bottom and cover slabs and precast concrete lockable cover</u>      |      |      |   |
| 75 | 675mm Diameter inspection chamber 1000mm deep internally   | No   | 8    |   |
|    | <b><u>TESTING</u></b>  |      |      |   |
| 76 | Testing the water supply installation  |      | Item |   |
|    | <b><u>SUNDRIES</u></b>   |      |      |   |
| 77 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in soft rock  | m3   | 9    |   |
| 78 | Extra over excavation in earth for pipe trenches, chambers, etc for excavation in hard rock  | m3   | 27   |   |
| 79 | Extra over excavation for pipe trenches, chambers, etc for carting away surplus material to a dumping site to be located by the contractor | m3   | 36   |   |
| 80 | Extra over backfilling to drain trenches, chambers, etc for suitable earth backfilling supplied by the contractor                          | m3   | 36   |   |
| 81 | Unreinforced concrete in thrust blocks in trenches at bends, tees, etc including extra excavation, formwork, etc                           | m3   | 2    |   |
| 82 | As-build drawings for the building and site.   | Item | 1    |   |
| 83 | Allow for testing, inspections and issuing Certificates of Compliance for the complete plumbing installation                               | Item | 1    |   |
|    | <b>Carried to Collection</b>   |      |      |   |
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|    |  |    |      |           |
|----|--|----|------|-----------|
|    | <b><u>Municipal Connection</u></b>   |    |      |           |
| 84 | Provide the sum of R28,809.00 (Twenty Eight Thousand Eight Hundred and Nine Rand) net for the Municipal Water Connection |    | Item | 28,809.00 |
| 85 | Allow for profit   |    |      | %         |
| 86 | Allow for attendance   |    |      | %         |
|    | <b><u>BUILDER'S WORK IN CONNECTION WITH SPECIAL SERVICES</u></b>   |    |      |           |
|    | <b><u>HOLES ETC</u></b>  |    |      |           |
| 87 | Fair cutting and fitting around pipe not exceeding 100mm diameter  | No | 154  |           |
| 88 | Fair cutting and fitting around pipe exceeding 200mm and not exceeding 300mm diameter                                    | No | 38   |           |
|    | <b><u>Core drilling of hole for pipe not exceeding 50mm diameter</u></b>   |    |      |           |
| 89 | 170mm Thick reinforced concrete slab, beam, wall, etc  | No | 25   |           |
| 90 | 230mm Reinforced concrete slab, beam, wall, etc  | No | 12   |           |
|    | <b><u>Core drilling of hole for pipe exceeding 50mm and not exceeding 100mm diameter</u></b>                             |    |      |           |
| 91 | 170mm Reinforced concrete slab, beam, wall, etc  | No | 15   |           |
| 92 | 230mm Reinforced concrete slab, beam, wall, etc  | No | 8    |           |
|    | <b><u>Core drilling hole exceeding 100mm and not exceeding 150mm diameter</u></b>  |    |      |           |
| 93 | 170mm Thick reinforced concrete slab, beam, wall, etc  | No | 10   |           |
| 94 | 230mm Thick reinforced concrete slab, beam, wall, etc  | No | 8    |           |
|    | <b>Carried to Collection</b>   |    |      | R         |
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**SLEEVES**

**Plastic sleeves for pipes not exceeding 100mm diameter**

|    |                                 |    |    |
|----|---------------------------------|----|----|
| 95 | Sleeve not exceeding 250mm long | No | 10 |
|----|---------------------------------|----|----|

**uPVC sleeve pipes**

|    |  |   |    |
|----|--|---|----|
| 96 | 50mm PVC sleeve pipe and excavations not exceeding 1m deep | m | 30 |
|----|--|---|----|

|    |   |   |    |
|----|---|---|----|
| 97 | 110mm PVC sleeve pipe and excavations not exceeding 1m deep | m | 45 |
|----|---|---|----|

|    |                                 |    |   |
|----|---------------------------------|----|---|
| 98 | Extra for 50mm long radius bend | No | 6 |
|----|---------------------------------|----|---|

|    |                                  |    |    |
|----|----------------------------------|----|----|
| 99 | Extra for 110mm long radius bend | No | 10 |
|----|----------------------------------|----|----|

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| Section No. 3<br>EXTERNAL WORK<br>Bill No. 2<br>STORMWATER AND SOIL DRAINAGE, WATER SUPPLY, ETC<br><b><u>COLLECTION</u></b>   | Page No | Amount |
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Section No. 3

EXTERNAL WORK

**SECTION SUMMARY - EXTERNAL WORK**

| Bill No  |   | Page No | Amount |
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| 1  | GENERAL SITEWORKS, FENCING AND SCREEN WALLS     | 218     |        |
| 2  | STORMWATER AND SOIL DRAINAGE, WATER SUPPLY, ETC | 231     |        |
| <b>Carried to Final Summary</b>                                      |   |         | R      |
| Section No. 3<br>EXTERNAL WORK<br><b>Keimoes Magistrate's office</b> |   |         |        |

# **SECTION 4**

# **ROADWORKS**





|    |                      |   |     |
|----|----------------------|---|-----|
| 8  |                      | Tools and equipment   | SUM |
| 9  |                      | Water supplies, electric power and communications   | SUM |
| 10 |                      | Dealing with water  | SUM |
| 11 |                      | Access  | SUM |
| 12 |                      | Plant   | SUM |
| 13 | 8.3.3                | Other fixed-charge obligations (Specify)  | SUM |
| 14 | 8.3.4                | Remove Engineer's and Contractor's Site establishment on completion   | SUM |
|    |                      | .....   |     |
|    |                      | ...   |     |
|    |                      | .....   |     |
|    |                      | ...   |     |
|    |                      | .....   |     |
|    |                      | ...   |     |
|    | 8.4                  | <b><u>TIME-RELATED ITEMS</u></b>  |     |
| 15 | 8.4.1                | Contractual Requirements  | SUM |
|    | 8.4.2                | <b><u>Operate and maintain facilities on the Site:</u></b>  |     |
|    | 8.4.2.1 & PS AB8.2.2 | <u>Facilities for Engineer for duration of construction (SABS 1200 AB)</u>  |     |
| 16 | 8.4.2.1 & PS AB8.2.2 | a) <u>Furnished offices (1No)</u>   | SUM |
| 17 |                      | Name board (one in total)   | SUM |
|    | 8.4.2.2              | <u>Facilities for Contractor for duration of construction, except where otherwise stated</u>                            |     |
| 18 |                      | Offices and storage sheds   | SUM |
|    |                      | <b>Carried to Collection</b>  | R   |
|    |                      | Section No. 4<br>ROADWORKS (PROVISIONAL)<br>Bill No. 1<br>PRELIMINARY AND GENERAL<br><b>Keimoes Magistrate's office</b> |     |



|           |           |   |   |     |
|-----------|-----------|---|---|-----|
| 31        |           | b) Overheads, charges and profit on item A.3.1  | % |     |
| 32        |           | c) Professional Engineering Services provided by registered Consultant for the prescribed scope of works                              |   | SUM |
| 33        |           | d) Overheads, charges and profit on item A.3.3  | % |     |
| 8.8       |           | <b><u>TEMPORARY WORKS</u></b>   |   |     |
| 34        | PS A8.8.2 | Accommodation of traffic  |   | SUM |
| 35        | PS A8.8.5 | Cost of survey in terms of the Land Survey Act  |   | SUM |
| 36        |           | Cost of Geotechnical Investigations, Testing & Reporting  |   | SUM |
| 37        |           | Cost associated with asbestos environment, consultations and close out of project   |   | SUM |
| PS A 8.9  |           | <b><u>OCCUPATIONAL HEALTH AND SAFETY MEASURES (PROVISIONAL)</u></b>   |   |     |
| 38        | PS A8.9.1 | Cost of health and safety measures required in terms of the Construction Regulations (2003) of the Occupational Health and Safety Act |   | SUM |
| 39        | PS A8.9.2 | Compilation and maintenance of a Health and Safety Plan, including risk assessments, safe work procedures and method statements       |   | SUM |
| 40        | PS A8.9.3 | Compilation of the Health and Safety File   |   | SUM |
| PS A 8.11 |           | <b><u>ENVIRONMENTAL MANAGEMENT</u></b>  |   |     |
| 41        |           | Recruitments in terms of the environmental management specification (refer to Part C.3.7)   |   | SUM |
|           |           | <b>Carried to Collection</b>  |   | R   |
|           |           | Section No. 4<br>ROADWORKS (PROVISIONAL)<br>Bill No. 1<br>PRELIMINARY AND GENERAL<br><b>Keimoes Magistrate's office</b>               |   |     |

Section No. 4  
ROADWORKS (PROVISIONAL)  
Bill No. 1  
PRELIMINARY AND GENERAL  
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ROADWORKS (PROVISIONAL)  
Bill No. 1  
PRELIMINARY AND GENERAL  
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|    |                | <b><u>EXISTING SERVICES</u></b> |  |    |     |
|----|----------------|---------------------------------|--|----|-----|
|    | PS<br>DM8.3.21 |                                 | <b><u>Services that adjoin excavation for streets</u></b>  |    |     |
| 10 |                |                                 | Sewer main pipes   | m  | 168 |
| 11 |                |                                 | Sewer manhole  | No | 3   |
| 12 |                |                                 | Stormwater catchpit  | No | 3   |
| 13 |                |                                 | Water main pipelines   | m  | 168 |
| 14 |                |                                 | Water valve  | No | 2   |
| 15 |                |                                 | Water hydrant  | No | 1   |
| 16 |                |                                 | Electrical cables  | m  | 168 |
| 17 |                |                                 | Lamp post  | m  | 168 |
|    | PS<br>DM8.3.22 |                                 | <b><u>Services that intersect excavation for streets</u></b>   |    |     |
| 18 |                |                                 | Sewer main pipes   | No | 2   |
| 19 |                |                                 | Water main pipes   | No | 2   |
| 20 |                |                                 | Electrical ducts   | No | 7   |
| 21 |                |                                 | Telkom ducts (underground)   | No | 7   |
| 22 | PS<br>DM8.3.26 | LI                              | Adjustment of sewer manhole (with new cover)   | No | 3   |
| 23 | PS<br>DM8.3.26 | LI                              | Adjustment of stormwater manhole (with new cover)  | No | 3   |
|    |                |                                 | <b>Carried to Collection</b>   |    |     |
|    |                |                                 | Section No. 4<br>ROADWORKS (PROVISIONAL)<br>Bill No. 3<br>EARTHWORKS (ROADS, SUBGRAD<br><b>Keimoes Magistrate's office</b> |    |     |
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ROADWORKS (PROVISIONAL)  
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|                |  |   |    |       |   |  |
|----------------|--|---|----|-------|---|--|
| PS ME<br>8.3.8 |  | <b><u>Stabilizing agent</u></b>   |    |       |   |  |
| 7              |  | b) Cement (CEM IIB Sureroad 32.5N or simmlar approved)  | t  | 36.00 |   |  |
| 8.3.3          |  | <u>Construct gravel wearing course with material from stockpile compacted to 95% of MAASHTO density</u>                                     |    |       |   |  |
| 8              |  | 150mm layer from stockpile (0.5m wide, inside kerbs, sidewalk) - edging measured elsewhere  | m3 | 25    |   |  |
|                |  | <b>Carried to Collection</b><br>Section No. 4<br>ROADWORKS (PROVISIONAL)<br>Bill No. 5<br>LAYER WORKS<br><b>Keimoes Magistrate's office</b> |    |       | R |  |

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ROADWORKS (PROVISIONAL)

Bill No. 5

LAYER WORKS

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LAYER WORKS  
**Keimoes Magistrate's office**

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|   |  |   |    |   |  |   |
|---|--|---|----|---|--|---|
| 9 |  | <p><b><u>SPEEDHUMPS</u></b></p> <p>LI Construct speedhump including road markings and signs complete according to typical detail drw. no. STE/P-31A</p> <p style="text-align: right;"><b>Carried to Collection</b></p> <p>Section No. 4<br/>ROADWORKS (PROVISIONAL)<br/>Bill No. 7<br/>ANCILLARY ROADWORKS<br/><b>Keimoes Magistrate's office</b></p> | No | 2 |  | R |
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ANCILLARY ROADWORKS

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Section No. 4

ROADWORKS (PROVISIONAL)

**SECTION SUMMARY - ROADWORKS (PROVISIONAL)**

| Bill No |                              | Page No | Amount |
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| 2       | SITE CLEARANCE               | 238     |        |
| 3       | EARTHWORKS (ROADS, SUBGRADE) | 241     |        |
| 4       | KERBING AND CHANNELING       | 242     |        |
| 5       | LAYER WORKS                  | 245     |        |
| 6       | SEGMENTED PAVING             | 246     |        |
| 7       | ANCILLARY ROADWORKS          | 249     |        |

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 ROADWORKS (PROVISIONAL)  
**Keimoes Magistrate's office**

# **SECTION 5**

# **ELECTRICAL INSTALLATION**

| Item No  | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><b><u>SECTION NO. 5</u></b></p>   |          |      |        |
| <p><b><u>ELECTRICAL INSTALLATION</u></b></p>   |          |      |        |
| <p><b><u>BILL NO. 1</u></b></p>  |          |      |        |
| <p><b><u>ENGINEERING CONDITIONS</u></b></p>  |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>   |          |      |        |
| <p><b>NOTE:</b></p>  |          |      |        |
| <p>All installations shall be complete in all respects and the contractor shall allow for the installation and successful operation of the complete installation, irrespective of whether every separate item is listed in the Bills of Quantities or not and when it would be logical and reasonable that such items automatically form part of a larger part of the works and is necessary to satisfy the acceptance criteria and to facilitate a complete working system.</p> |          |      |        |
| <p>All items as listed in the Bills of Quantities shall include all other associated features/accessories/requirements as described in the specification, whether specified in detail or not..</p>   |          |      |        |
| <p>The tenderer must familiarise himself with the specification and drawing/s and ensure that tender prices allow for full compliance. It will be assumed that the Tenderer complies with all tender documentation.</p>  |          |      |        |
| <p><u>Specifications, drawings, etc</u></p>  |          |      |        |
| <p>Tenderers are referred to the specification and drawings accompanying these bills of quantities for the electrical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings</p>   |          |      |        |
| <p><b><u>INDUSTRY CERTIFICATION</u></b></p>  |          |      |        |
| <p>Bidder's sub-contractor shall have a CIDB contractor grading designation of <b>5EB or higher</b></p>  |          |      |        |
| <p><b>Carried to Collection</b></p>  |          |      |        |
| <p>Section No. 5<br/>ELECTRICAL INSTALLATION<br/>Bill No. 1<br/>ENGINEERING CONDITIONS<br/><b>Keimoes Magistrate's office</b></p>  |          | R    |        |

**TECHNICAL EXPERTISE**

The electrical sub-contractor must be registered with Department of Labour, as electrical contractor in terms of OHS Act 1993, Regulation 6(4)

Bidders to submit certified copies of registration certificates, as well as CV's and qualifications of project team / key

**ENGINEERING CONDITIONS**

|   |   |     |
|---|---|-----|
| 1 | Bidder to allow for a full time ,Three-Phase Accredited Electrician, as Supervisor for the duration of the Contract, who shall have the delegated authority to receive instructions and make decisions regarding this Contract, shall take responsibility of all the works done under this contact. | SUM |
| 2 | Meetings during the contract  | SUM |
| 3 | Operation manuals as per specification.   | SUM |
| 4 | 12 Month guarantee on the installations.  | SUM |
| 5 | AS build drawings for the building as per specification.  | SUM |

**Carried to Collection**

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Section No. 5  
 ELECTRICAL INSTALLATION  
 Bill No. 1  
 ENGINEERING CONDITIONS  
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ELECTRICAL INSTALLATION

Bill No. 1

ENGINEERING CONDITIONS

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ELECTRICAL INSTALLATION

Bill No. 1

ENGINEERING CONDITIONS

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| Item No | LI  | Quantity | Rate   | Amount |
|---------|---|----------|--------|--------|
|         | <b><u>SECTION NO. 5</u></b>   |          |        |        |
|         | <b><u>BILL NO. 2</u></b>  |          |        |        |
|         | <b><u>LOW VOLTAGE SUPPLY FOR ALL PHASES</u></b>   |          |        |        |
|         | <b><u>TRF - DB M</u></b>  |          |        |        |
|         | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |          |        |        |
|         | <u>120mm<sup>2</sup> x 4 Core</u>   |          |        |        |
| 1       | Supply  | m        | 225.00 |        |
| 2       | Install   | m        | 225.00 |        |
|         | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |          |        |        |
|         | <u>120mm<sup>2</sup> x 4</u>  |          |        |        |
| 3       | Supply  | No       | 6.00   |        |
| 4       | Install   | No       | 6.00   |        |
|         | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |          |        |        |
|         | <u>95mm<sup>2</sup></u>   |          |        |        |
| 5       | Supply  | m        | 225.00 |        |
| 6       | Install   | m        | 225.00 |        |
|         | <b><u>DB M - DB2</u></b>  |          |        |        |
|         | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |          |        |        |
|         | <b>Carried to Collection</b>  |          |        | R      |
|         | Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 2<br>LOW VOLTAGE SUPPLY<br><b>Keimoes Magistrate's office</b>  |          |        |        |

|    |   |    |       |
|----|---|----|-------|
|    | <u>35mm<sup>2</sup> x 4 Core</u>  |    |       |
| 7  | Supply  | m  | 55.00 |
| 8  | Install   | m  | 55.00 |
|    | <u>10mm<sup>2</sup> x 4 Core</u>  |    |       |
| 9  | Supply  | m  | 55.00 |
| 10 | Install   | m  | 55.00 |
|    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |    |       |
|    | <u>35mm<sup>2</sup> x 4</u>   |    |       |
| 11 | Supply  | No | 2.00  |
| 12 | Install   | No | 2.00  |
|    | <u>10mm<sup>2</sup> x 4</u>   |    |       |
| 13 | Supply  | No | 2.00  |
| 14 | Install   | No | 2.00  |
|    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |    |       |
|    | <u>25mm<sup>2</sup></u>   |    |       |
| 15 | Supply  | m  | 55.00 |
| 16 | Install   | m  | 55.00 |
|    | <u>6mm<sup>2</sup> -Insulated</u>   |    |       |
| 17 | Supply  | m  | 50.00 |
| 18 | Install   | m  | 50.00 |

**DB M - DB3**

**Carried to Collection**

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 ELECTRICAL INSTALLATION  
 Bill No. 2  
 LOW VOLTAGE SUPPLY  
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|    |   |    |       |
|----|---|----|-------|
|    | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |    |       |
|    | <u>25mm<sup>2</sup> x 3 Core</u>  |    |       |
| 19 | Supply  | m  | 60.00 |
| 20 | Install   | m  | 60.00 |
|    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |    |       |
|    | <u>25mm<sup>2</sup> x 3</u>   |    |       |
| 21 | Supply  | No | 2.00  |
| 22 | Install   | No | 2.00  |
|    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |    |       |
|    | <u>16mm<sup>2</sup></u>   |    |       |
| 23 | Supply  | m  | 60.00 |
| 24 | Install   | m  | 60.00 |
|    | <b><u>UPS IN &amp; OUT</u></b>  |    |       |
|    | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |    |       |
|    | <u>35mm<sup>2</sup> x 4 Core</u>  |    |       |
| 25 | Supply  | m  | 90.00 |
| 26 | Install   | m  | 90.00 |
|    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |    |       |

Carried to Collection

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Section No. 5  
 ELECTRICAL INSTALLATION  
 Bill No. 2  
 LOW VOLTAGE SUPPLY  
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|    |   |    |       |
|----|---|----|-------|
|    | <u>35mm<sup>2</sup> x 4</u>   |    |       |
| 27 | Supply  | No | 4.00  |
| 28 | Install   | No | 4.00  |
|    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |    |       |
|    | <u>25mm<sup>2</sup> - Insulated</u>   |    |       |
| 29 | Supply  | m  | 90.00 |
| 30 | Install   | m  | 90.00 |
|    | <b><u>DB M - DB 4</u></b>   |    |       |
|    | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |    |       |
|    | <u>35mm<sup>2</sup> x 4 Core</u>  |    |       |
| 31 | Supply  | m  | 70.00 |
| 32 | Install   | m  | 70.00 |
|    | <u>25mm<sup>2</sup> x 3 Core</u>  |    |       |
| 33 | Supply  | m  | 70.00 |
| 34 | Install   | m  | 70.00 |
|    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |    |       |
|    | <u>35mm<sup>2</sup> x 4</u>   |    |       |
| 35 | Supply  | No | 2.00  |
| 36 | Install   | No | 2.00  |

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|    |   |    |       |
|----|---|----|-------|
|    | <u>25mm<sup>2</sup> x 3</u>   |    |       |
| 37 | Supply  | No | 2.00  |
| 38 | Install   | No | 2.00  |
|    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |    |       |
|    | <u>25mm<sup>2</sup></u>   |    |       |
| 39 | Supply  | m  | 70.00 |
| 40 | Install   | m  | 70.00 |
|    | <u>16mm<sup>2</sup> Insulated</u>   |    |       |
| 41 | Supply  | m  | 70.00 |
| 42 | Install   | m  | 70.00 |
|    | <b><u>DB M - DB B</u></b>   |    |       |
|    | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |    |       |
|    | <u>16mm<sup>2</sup> x 4 Core</u>  |    |       |
| 43 | Supply  | m  | 70.00 |
| 44 | Install   | m  | 70.00 |
|    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |    |       |
|    | <u>16mm<sup>2</sup> x 4</u>   |    |       |
| 45 | Supply  | No | 2.00  |
| 46 | Install   | No | 2.00  |
|    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |    |       |

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 LOW VOLTAGE SUPPLY  
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|    |   |    |       |
|----|---|----|-------|
|    | <u>10mm<sup>2</sup></u>   |    |       |
| 47 | Supply  | m  | 70.00 |
| 48 | Install   | m  | 70.00 |
|    | <b><u>DB M - DB G</u></b>   |    |       |
|    | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |    |       |
|    | <u>6mm<sup>2</sup> x 4 Core</u>   |    |       |
| 49 | Supply  | m  | 50.00 |
| 50 | Install   | m  | 50.00 |
|    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars,including all necessary cable end material, glands and cable clamps complete.</u></b> |    |       |
|    | <u>6mm<sup>2</sup> x 4</u>  |    |       |
| 51 | Supply  | No | 2.00  |
| 52 | Install   | No | 2.00  |
|    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>   |    |       |
|    | <u>4mm<sup>2</sup></u>  |    |       |
| 53 | Supply  | m  | 50.00 |
| 54 | Install   | m  | 50.00 |
|    | <b><u>DB M - DB Plant</u></b>   |    |       |
|    | <b><u>Supply and Installation of 600/1000V PVC SWA cables on cable racks.</u></b>   |    |       |
|    | <u>70mm<sup>2</sup> x 4 Core</u>  |    |       |
| 55 | Supply  | m  | 80.00 |

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|    |    |  |    |        |
|----|----|--|----|--------|
| 56 |    | Install  | m  | 80.00  |
|    |    | <b><u>Making off ends of 600/1000V PVC SWA cables onto switchgear and busbars, including all necessary cable end material, glands and cable clamps complete.</u></b> |    |        |
|    |    | <u>70mm<sup>2</sup> x 4</u>  |    |        |
| 57 |    | Supply   | No | 2.00   |
| 58 |    | Install  | No | 2.00   |
|    |    | <b><u>The supply and installation of bare copper, stranded earth conductor on cable racks complete.</u></b>  |    |        |
|    |    | <u>35mm<sup>2</sup></u>  |    |        |
| 59 |    | Supply   | m  | 80.00  |
| 60 |    | Install  | m  | 80.00  |
|    |    | <b><u>Cable Trenches</u></b>   |    |        |
|    |    | <u>Excavation of trenches, backfilling and compacting as specified, complete.</u>  |    |        |
| 61 | LI | In soft soil   | m3 | 84.00  |
| 62 |    | Hard Rock  | m3 | 25.20  |
| 63 |    | Supply & installation of sand bedding  | m3 | 21.00  |
|    |    | <b><u>Cable racks, channels complete with all bends, t-pieces, hangers, brackets necessary fittings.</u></b>   |    |        |
|    |    | <u>300 mm heavy duty cable tray</u>  |    |        |
| 64 |    | Supply   | m  | 170.00 |
| 65 |    | Install in ceiling void  | m  | 85.00  |
| 66 |    | Install suspended under concrete slabs   | m  | 85.00  |

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Section No. 5  
 ELECTRICAL INSTALLATION  
 Bill No. 2  
 LOW VOLTAGE SUPPLY  
**Keimoes Magistrate's office**

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|    |  |    |        |
|----|--|----|--------|
|    | <u>450 mm mesh cable tray</u>  |    |        |
| 67 | Supply   | m  | 75.00  |
| 68 | Install suspended under concrete slabs   | m  | 75.00  |
|    | <u>P9000 cable channels</u>  |    |        |
| 69 | Supply   | m  | 942.00 |
| 70 | Install in ceiling voids   | m  | 409.00 |
| 71 | Install suspended under concrete slabs   | m  | 503.00 |
| 72 | Install wall mounted   | m  | 30.00  |
|    | <b><u>Electrical Manholes 4 way Stackable, modular, polyethylene, cable access boxes (600x600x1200 deep) with galvanised manhole cover .</u></b> |    |        |
| 73 | Supply & Install   | No | 6.00   |
|    | <b><u>Telecom Manholes 4-way Stackable, modular, polyethylene, cable access boxes (600x600x1200 deep) with galvanised manhole cover</u></b>      |    |        |
| 74 | Supply & Install   | No | 4.00   |
|    | <b><u>Under Ground Cable Sleeves</u></b>   |    |        |
|    | <u>160mm PVC</u>   |    |        |
| 75 | Supply   | m  | 250.00 |
| 76 | Install  | m  | 250.00 |
|    | <u>50mm PVC</u>  |    |        |
| 77 | Supply   | m  | 50.00  |
| 78 | Install  | m  | 50.00  |
|    | <b><u>Danger Tape 300 wide</u></b>   |    |        |
| 79 | Supply & Install   | m  | 300.00 |

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|----|---|--|--|--|
| 80 | <p><b><u>Cable Markers as per engineers drawing</u></b></p> <p>Supply &amp; Install</p> <p>No</p> <p>8.00</p> <p><b>Carried to Collection</b></p> <p>Section No. 5<br/>ELECTRICAL INSTALLATION<br/>Bill No. 2<br/>LOW VOLTAGE SUPPLY<br/><b>Keimoes Magistrate's office</b></p> |  |  |  |
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| Item No | <b><u>SECTION NO. 5</u></b>  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 3</u></b>   |          |      |        |
|         | <b><u>DISTRIBUTION BOARDS</u></b>  |          |      |        |
|         | <b>Note :</b><br><u>Bidder must submit shop drawings from manufacture to Engineer of each individual distribution board before orders are placed</u>   |          |      |        |
|         | <u>Distribution boards etc</u>   |          |      |        |
|         | Rates for distribution boards etc are to include for busbars, jumpers, neutral bars, internal wiring and connections, circuit identification markers, control gear labels, circuit legend cards and working drawings |          |      |        |
|         | <b><u>The Supply and installation of LV Distribution Boards complete with equipment, busbars and switchgear as specified and shown on Drawings:</u></b>  |          |      |        |
|         | <b><u>DB M</u></b>   |          |      |        |
| 1       | Supply   | Item     |      |        |
| 2       | Install  | Item     |      |        |
|         | <b><u>DB 1</u></b>   |          |      |        |
| 3       | Supply   | Item     |      |        |
| 4       | Install  | Item     |      |        |
|         | <b><u>DB 2</u></b>   |          |      |        |
| 5       | Supply   | Item     |      |        |
| 6       | Install  | Item     |      |        |
|         | <b><u>DB 3</u></b>   |          |      |        |
| 7       | Supply   | Item     |      |        |
|         | <b>Carried to Collection</b>   |          | R    |        |
|         | Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 3<br>DISTRIBUTION BOARD INSTALLATION<br><b>Keimoes Magistrate's office</b>  |          |      |        |

|   |   |    |      |            |
|---|---|----|------|------------|
| 8   | Install   |    | Item |            |
|   | <b><u>DB 4</u></b>  |    |      |            |
| 9   | Supply  |    | Item |            |
| 10  | Install   |    | Item |            |
|   | <b><u>DB B</u></b>  |    |      |            |
| 11  | Supply  |    | Item |            |
| 12  | Install   |    | Item |            |
|   | <b><u>DB G</u></b>  |    |      |            |
| 13  | Supply  |    | Item |            |
| 14  | Install   |    | Item |            |
|   | <b><u>DB Plant</u></b>  |    |      |            |
|   | <u>HVAC DB</u>  |    |      |            |
| 15  | Allow budgetary amount of Ninety Eight Thousand One Hundred and Sixty Four Rand for the supply and install  |    | Item | 98,164.00  |
|   | <b><u>Sundries</u></b>  |    |      |            |
| 16  | Allow budgetary amount of Two Hundred and Seventy Seven Thousand Four Hundred and Twenty Rand for modifications at Existing Mini-Sub for main connection by Municipality. |    | Item | 277,420.00 |
| 17  | Marking/labelling of individual switch socket outlets and switches complete as per drawings.  |    | Item |            |
| 18  | Marking/labelling of individual main supply cables complete as per drawings.  |    | Item |            |
| 19  | Testing, commissioning and issuing COC's for all Distribution boards complete.  | No | 7.00 |            |
| <b>Carried to Collection</b>  |   |    |      |            |
| Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 3<br>DISTRIBUTION BOARD INSTALLATION<br><b>Keimoes Magistrate's office</b> |   |    |      | R          |

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| Item No | <b><u>SECTION NO. 5</u></b>   | Quantity | Rate   | Amount |
|---------|---|----------|--------|--------|
|         | <b><u>BILL NO. 4</u></b>  |          |        |        |
|         | <b><u>ELECTRICAL INSTALLATION : GROUND FLOOR</u></b>  |          |        |        |
|         | <b><u>LUMINAIRES</u></b>  |          |        |        |
|         | <u>Light fittings</u>   |          |        |        |
|         | Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described |          |        |        |
|         | <b><u>The supply and installation of luminaires complete with lamps and control gear as specified, and approved by the Engineer before ordering.</u></b>          |          |        |        |
|         | <b><u>PL3 -Surface mount LED panel 595mmx595mm 40W 4500K.</u></b>   |          |        |        |
| 1       | Supply  | No       | 10.00  |        |
| 2       | Install   | No       | 10.00  |        |
|         | <b><u>D1- Recessed LED panel 595mmx595mm 40W 4500K.</u></b>   |          |        |        |
| 3       | Supply  | No       | 25.00  |        |
| 4       | Install   | No       | 25.00  |        |
|         | <b><u>D2 - Surface mount LED panel 1200mmx600mm 70W 4500K.</u></b>  |          |        |        |
| 5       | Supply  | No       | 120.00 |        |
| 6       | Install   | No       | 120.00 |        |
|         | <b><u>D2 - Recessed LED panel 1200mmx600mm 70W 4500K.</u></b>   |          |        |        |
| 7       | Supply  | No       | 39.00  |        |
|         | <b>Carried to Collection</b>  |          |        | R      |
|         | Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 4<br>ELECTRICAL INSTALLATION : GROUND FLOOR<br><b>Keimoes Magistrate's office</b>                            |          |        |        |

|    |   |    |       |
|----|---|----|-------|
| 8  | Install   | No | 39.00 |
|    | <b><u>B - IP65 Bulkhead 8W Rectangular b/head , steel body 4500K</u></b>                                |    |       |
| 9  | Supply  | No | 50.00 |
| 10 | Install   | No | 50.00 |
|    | <b><u>P - Vandal resistant 56W ,4000K , LED light for prison cell with tamper proof screws</u></b>      |    |       |
| 11 | Supply  | No | 55.00 |
| 12 | Install   | No | 55.00 |
|    | <b><u>P1- IP65 ,36W LED linear light for plant rooms ,4500K</u></b>                                     |    |       |
| 13 | Supply  | No | 15.00 |
| 14 | Install   | No | 15.00 |
|    | <b><u>B1 - Vandal Resistant IP65 Bulkhead 18W Rectangular b/head , steel body 4500K + Wiregaurd</u></b> |    |       |
| 15 | Supply  | No | 10.00 |
| 16 | Install   | No | 10.00 |
|    | <b><u>Y - Decorative 10W LED downlight ,4500K</u></b>   |    |       |
| 17 | Supply  | No | 45.00 |
| 18 | Install   | No | 45.00 |
|    | <b><u>LD - Decorative LEDDISK-MIDI 16W,4500K</u></b>  |    |       |
| 19 | Supply  | No | 10.00 |
| 20 | Install   | No | 10.00 |
|    | <b><u>2 -IP65 UP &amp; Down light LEDDUO 7W/7W,4500K</u></b>  |    |       |
| 21 | Supply  | No | 14.00 |
| 22 | Install   | No | 14.00 |

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|--|--|------|-----------|
| <b><u>D1 - Recessed LED panel 595mmx595mm 40W 4500K with Emergency backup battery supply.</u></b>  |  |      |           |
| 23   | Supply   | No   | 10.00     |
| 24   | Install  | No   | 10.00     |
| <b><u>D2 - Recessed LED panel 1200mmx600mm 70W 4500K with emergency backup battery supply</u></b>  |  |      |           |
| 25   | Supply   | No   | 8.00      |
| 26   | Install  | No   | 8.00      |
| <b><u>P - Vandal resistant 56W ,4000K , LED light for prison cell with tamper proof screws with emergency backup battery supply</u></b>  |  |      |           |
| 27   | Supply   | No   | 4.00      |
| 28   | Install  | No   | 4.00      |
| <b><u>DOJ light boxes</u></b>  |  |      |           |
| 29   | Allow budgetary amount of Ninety Thousand Six Hundred and Ninety Five Rand for DOJ light boxes | Item | 90,695.00 |
| <b><u>Power skirting</u></b>   |  |      |           |
| <u>2-channel steel, coated Grey Power Skirting complete with cover plates, bends, endcaps, conduit from wall box to wiring channel, supports etc., as per details. No cutting of the skirting to provide bends will be permitted</u> |  |      |           |
| 30   | Supply   | m    | 104.00    |
| 31   | Install as per drawings  | m    | 104.00    |
| <b><u>CONDUIT AND CONDUIT ACCESSORIES</u></b>  |  |      |           |
| NOTE: ALL CONDUIT AND CONDUIT ACCESSORIES WILL BE OF THE METAL TYPE, AND BOXES CAST INTO CONCRETE SLABS, WILL BE OF THE MALLEABLE CAST METAL TYPE, AS PER SPECIFICATION.   |  |      |           |
| <b>Carried to Collection</b>   |  |      | R         |
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**Light Point:**

Supply and install conduit, outlet boxes, draw boxes, expansion joint boxes, new wiring, etc. as shown on the drawings and on the schematic layout of the distribution boards, but excluding the light switch.

**Light point for recessed fitting, complete with 5Amp unswitched socket outlet, connected to duct.**

Wired with 2,5mm<sup>2</sup> conductor and 2,5mm<sup>2</sup> earth conductor.

|    |                          |    |        |
|----|--------------------------|----|--------|
| 32 | New internal light point | No | 341.00 |
|----|--------------------------|----|--------|

Wired with 4mm<sup>2</sup> 600/1000V PVC SWA cable and 2,5mm<sup>2</sup> earth conductor.

|    |                           |    |       |
|----|---------------------------|----|-------|
| 33 | New External light points | No | 74.00 |
|----|---------------------------|----|-------|

**Light Switches:**

**Supply light switches with PVC covers (white) and screws complete, but excluding the conduit, wall box and wiring.**

|    |                 |    |       |
|----|-----------------|----|-------|
| 34 | 1 Lever - 1 Way | No | 75.00 |
|----|-----------------|----|-------|

|    |                 |    |       |
|----|-----------------|----|-------|
| 35 | 1 Lever - 2 Way | No | 14.00 |
|----|-----------------|----|-------|

|    |                    |    |      |
|----|--------------------|----|------|
| 36 | Day / Night switch | No | 6.00 |
|----|--------------------|----|------|

|    |                       |    |       |
|----|-----------------------|----|-------|
| 37 | Room Occupancy sensor | No | 35.00 |
|----|-----------------------|----|-------|

|    |                 |    |      |
|----|-----------------|----|------|
| 38 | 1 Lever - 3 Way | No | 6.00 |
|----|-----------------|----|------|

**Install complete with connections, but excluding conduit and wires-**

|    |                 |    |       |
|----|-----------------|----|-------|
| 39 | 1 Lever - 1 Way | No | 75.00 |
|----|-----------------|----|-------|

|    |                 |    |       |
|----|-----------------|----|-------|
| 40 | 1 Lever - 2 Way | No | 14.00 |
|----|-----------------|----|-------|

|    |                    |    |      |
|----|--------------------|----|------|
| 41 | Day / Night switch | No | 6.00 |
|----|--------------------|----|------|

|    |                       |    |       |
|----|-----------------------|----|-------|
| 42 | Room Occupancy sensor | No | 35.00 |
|----|-----------------------|----|-------|

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|    |  |    |       |
|----|--|----|-------|
| 43 | 1 Lever - 3 Way  | No | 6.00  |
|    | <b><u>Switch Socket Outlets:</u></b>   |    |       |
|    | Supply & Install new wiring,conduit ,wall boxes,ceiling boxes, draw boxes,expansion boxes,draw wire etc. as shown on the drawings and on the schematic layout of the distribution boards, but excluding the socket |    |       |
|    | <b><u>Wall/Ceiling Mounted</u></b>   |    |       |
|    | <u>Wall mounted recessed socket outlet ,excluding socket - (Standby)</u>   |    |       |
| 44 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.  | No | 87.00 |
|    | <b><u>Power skirting mounted</u></b>   |    |       |
|    | <u>Recessed socket outlet in power skirting but excluding the skirting and socket switch - (standby)</u>   |    |       |
| 45 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.  | No | 98.00 |
|    | <u>Recessed socket outlet in power skirting but excluding the skirting and socket switch - (UPS)</u>   |    |       |
| 46 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.  | No | 15.00 |
|    | <b><u>Ceiling Mounted</u></b>  |    |       |
|    | <u>UPS type mounted in ceiling void, excluding socket - (UPS)</u>  |    |       |
| 47 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> insulated earth conductor.  | No | 22.00 |
|    | <b><u>Floor box Mounted</u></b>  |    |       |
|    | <u>Floor box mounted recessed socket outlet ,excluding socket -(Standby)</u>   |    |       |
| 48 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.  | No | 15.00 |

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|----|---|----|-------|---|
|    | <u>Floor box mounted recessed socket outlet ,excluding socket -(UPS)</u>  |    |       |   |
| 49 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.   | No | 4.00  |   |
|    | <b><u>Switch Socket:</u></b>  |    |       |   |
|    | <b><u>Supply &amp; Install switch socket, complete with covers, screws, clips and PLUG TOP for each type of S.S.O., but excluding wall box, conduit and wiring.</u></b> |    |       |   |
| 50 | Standby type wall mounted - 3pin single outlet (White cover & red switch)   | No | 37.00 |   |
| 51 | Standby type wall mounted - 3pin double outlet (White cover & red switch)   | No | 8.00  |   |
| 52 | Standby type in power skirting - 3pin single outlet (white cover & red switch & red outlet)   | No | 66.00 |   |
| 53 | Standby type in power skirting - 2 pin single outlet (white cover & red switch)   | No | 33.00 |   |
| 54 | UPS type in power skirting - 2pin single outlet (white cover & blue switch )  | No | 15.00 |   |
| 55 | UPS type in power skirting - 3pin outlet (white cover & blue switch)  | No | 14.00 |   |
| 56 | UPS type wall mounted - 3pin outlet (white cover & blue switch & surface 4x4 box)   | No | 9.00  |   |
|    | <b><u>Floor box</u></b>   |    |       |   |
| 57 | Supply & installation of floor reticulation box complete as per Electrical layout engineers drawings.   | No | 2.00  |   |
| 58 | Standby type in floor box - 3pin single outlet (White cover & red switch)   | No | 6.00  |   |
| 59 | Standby type in floor box - 2pin single outlet (White cover & red switch)   | No | 6.00  |   |
| 60 | UPS type in floor box - 3pin outlet (white cover & blue switch)   | No | 6.00  |   |
|    | <b>Carried to Collection</b>  |    |       | R |
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|    |  |    |      |
|----|--|----|------|
| 61 | UPS type in floor box - 2pin outlet (white cover & blue switch)  | No | 6.00 |
|    | <b><u>Isolator Points:</u></b>   |    |      |
|    | Supply and install isolators, conduit, outlet boxes, draw boxes, expansion joint boxes, wiring, etc. as shown on the drawings and on the schematic layout of the distribution boards ,HVAC power point drawing and power point drawings. |    |      |
|    | <b><u>Power Points supplied from Distribution Boards</u></b>   |    |      |
|    | <u>DB 1</u>  |    |      |
| 62 | EF4  |    | Item |
| 63 | EF5  |    | Item |
| 64 | AC17   |    | Item |
| 65 | AC 15  |    | Item |
| 66 | AC 16  |    | Item |
| 67 | AC 14  |    | Item |
| 68 | AC 11  |    | Item |
| 69 | EF 7   |    | Item |
| 70 | AC 12  |    | Item |
| 71 | AC 13  |    | Item |
| 72 | AC 9   |    | Item |
| 73 | AC 10 A  |    | Item |
| 74 | AC 10 B  |    | Item |
| 75 | UPI 1 (20A,1ø)   |    | Item |
| 76 | UPI 2 (20A,1ø)   |    | Item |
| 77 | UPI 3 (20A,1ø)   |    | Item |

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|-----|--|----|-------|---|
|     | <b><u>DB 3</u></b>   |    |       |   |
| 98  | AC 2   |    | Item  |   |
| 99  | FA 1   |    | Item  |   |
| 100 | EF 6   |    | Item  |   |
|     | <b><u>OUTLET POINTS</u></b>  |    |       |   |
|     | <b><u>HVAC</u></b>   |    |       |   |
|     | <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; for HVAC equipment in ceiling void to position of wired remote &amp; stop/start switch as indicated on the drawings complete.</u>      |    |       |   |
| 101 | Outlet point in wall for wired control of air conditioner, complete with round outlet box flush mounted in wall and 20mmø PVC conduit from ac indoor unit as per Mechanical engineers drawings   | No | 35.00 |   |
|     | <b><u>DATA</u></b>   |    |       |   |
|     | <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from DATA Cabinet position void to position of data outlet box as indicated on the Tel&amp;Data layout drawings complete.</u>          |    |       |   |
| 102 | Outlet point in wall for data point, complete with 2x4 outlet box flush mounted in wall and 25mmø PVC conduit from data wiring channel as per Tel&Data layout engineers drawings   | No | 56.00 |   |
|     | <b><u>TELEPHONE</u></b>  |    |       |   |
|     | <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from TELEPHONE Patch panel position to position of telephone outlet box as indicated on the Tel&amp;Data layout drawings complete.</u> |    |       |   |
| 103 | Outlet point in wall for telephone point, complete with 2x4 outlet box flush mounted in wall and 25mmø PVC conduit from telephone Patch Panel as perTel&Data engineers drawings  | No | 56.00 |   |
|     | <b>Carried to Collection</b>   |    |       |   |
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|---|---|----|-------|
| <b><u>TV</u></b>  |   |    |       |
| 104   | Supply and install 30m 25mm <sup>2</sup> conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from ceiling void to position of TV outlet box . | No | 2.00  |
| <b><u>ACCESS CONTROL</u></b>  |   |    |       |
| <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from security wire way P9000 position to position of biometric reader outlet box as indicated on the Access control layout drawings complete.</u> |   |    |       |
| 105   | Outlet point in wall for biometric reader, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings                     | No | 30.00 |
| <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from biometric reader to position of magnetic door lock as indicated on the drawings complete.</u>  |   |    |       |
| 106   | Outlet point in door frame for magnetic door lock, 25mmø PVC conduit from biometric reader as per engineers drawings  | No | 30.00 |
| <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from door magnet position void to position of Break glass unit outlet box as indicated on the drawings complete.</u>                              |   |    |       |
| 107   | Outlet point in wall for break glass unit, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings                     | No | 30.00 |
| <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from electrical turn stile control gear to position of emergecy stop start switch unit outlet box as indicated on the drawings complete.</u>      |   |    |       |
| 108   | Outlet point in wall for stop start switch, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings                    | No | 4.00  |

**CCTV**

**Carried to Collection**

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|     |  |    |       |   |
|-----|--|----|-------|---|
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronic wiring tray in ceiling void to position of CCTV camera unit outlet box as indicated on the drawings</u>               |    |       |   |
| 109 | Outlet point for CCTV camera , complete with round outlet boxl and 25mmø PVC conduit as per engineers drawings   | No | 49.00 |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; to position of CCTV camera unit outlet box as indicated on the drawings</u>   |    |       |   |
| 110 | Outlet point for external CCTV camera , complete with round outlet boxl and 25mmø PVC conduit as per engineers drawings  | No | 49.00 |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; to position of CCTV monitor unit outlet box as indicated on the drawings</u>  |    |       |   |
| 111 | Outlet point for CCTV monitor , complete with round outlet boxl and 32mmø PVC conduit as per engineers drawings  | No | 2.00  |   |
|     | <b><u>INTERCOM</u></b>   |    |       |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; for intercom as indicated on the drawings complete.</u>   |    |       |   |
| 112 | Outlet point in ceiling space for magnetic lock, complete with round outlet box and 25mmø bosal conduit from SAPS counter as per engineers drawings  | No | 2.00  |   |
|     | <b><u>FIRE DETECTION</u></b>   |    |       |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of smoke dector or heat sensor as indicated on the drawings complete.</u> |    |       |   |
| 113 | Outlet point in ceiling space for smoke detector , fire strobe , fire alarm & heat sensor, complete with round outlet box and 25mmø bosal conduit as per engineers drawings  | No | 95.00 |   |
|     | <b>Carried to Collection</b>   |    |       | R |
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|     |   |    |       |   |
|-----|---|----|-------|---|
|     | <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; to position of Break glass unit outlet box as indicated on the drawings complete.</u>   |    |       |   |
| 114 | Outlet point in wall for break glass unit, complete with round outlet box flush mounted in wall and 25mmø bozal conduit from fire wiring channel as per engineers drawings  | No | 6.00  |   |
|     | <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of Fire Panel outlet box as indicated on the drawings complete.</u> |    |       |   |
| 115 | Outlet point in wall for Fire Panel, complete with round outlet box flush mounted in wall and 30mx3x32mmø PVC conduit from fire wiring channel as per engineers drawings  | No | 2.00  |   |
|     | <u>Supply and install conduit, outlet boxes,draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of PA mic outlet box as indicated on the drawings complete.</u>     |    |       |   |
| 116 | Outlet point in wall for PA mic, complete with round outlet box flush mounted in wall and 1x32mmø bozal conduit from fire wiring channel as per engineers drawings  | No | 1.00  |   |
| 117 | Connect electrical equipment supplied by others, complete to their specifications,power point drawings and distrubution schematic to assist with testing and commissioning to Engineers requirements.                           | No | 10.00 |   |
| 118 | TESTING AND COMMISSIONING OF THE COMPLETE ELECTRICAL INSTALLATION, TO SANS 10142, AS REVISED  |    | Item  |   |
|     | <b><u>UPS</u></b>   |    |       |   |
| 119 | Supply complete   | No | 1.00  |   |
|     | <b>Carried to Collection</b>  |    |       | R |
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|     |   |    |       |
|-----|---|----|-------|
|     | <u>40kVA UPS , double conversion ,true online with 30 min battery backup at full load.</u><br><u>Batteries shall be maintenance free and shall have a 5 year warranty.</u><br><u>All as per specification</u> |    |       |
| 120 | Install complete  | No | 1.00  |
| 121 | Commissioning of the units complete   |    | Item  |
|     | <b><u>Isolators</u></b>   |    |       |
|     | <b><u>Supply and installation of lockable rotary 80Amp isolators</u></b>  |    |       |
| 122 | Supply  | No | 2.00  |
| 123 | Install   | No | 2.00  |
|     | <b><u>Supply and Installation of 16x4 trailing cable.</u></b>   |    |       |
| 124 | Supply  | m  | 10.00 |
| 125 | Install   | m  | 10.00 |

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Section No. 5

ELECTRICAL INSTALLATION

Bill No. 4

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**COLLECTION**

Total Brought Forward from Page No.

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Section No. 5

ELECTRICAL INSTALLATION

Bill No. 4

ELECTRICAL INSTALLATION : GROUND FLOOR

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| Item No | <u>SECTION NO. 5</u>   | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <u>BILL NO. 5</u>  |          |       |        |
|         | <u>ELECTRICAL INSTALLATION : FIRST FLOOR</u>   |          |       |        |
|         | <u>LUMINAIRES</u>  |          |       |        |
|         | <u>The supply and installation of luminaires complete with lamps and control gear as specified, and approved by the Engineer, before ordering.</u> |          |       |        |
|         | <u>PL3 -Surface mount LED panel 595mmx595mm 40W 4500K.</u>   |          |       |        |
| 1       | Supply   | No       | 25.00 |        |
| 2       | Install  | No       | 25.00 |        |
|         | <u>D1- Recessed LED panel 595mmx595mm 40W 4500K.</u>   |          |       |        |
| 3       | Supply   | No       | 35.00 |        |
| 4       | Install  | No       | 35.00 |        |
|         | <u>D2 - Surface mount LED panel 1200mmx600mm 70W 4500K.</u>  |          |       |        |
| 5       | Supply   | No       | 55.00 |        |
| 6       | Install  | No       | 55.00 |        |
|         | <u>D2 - Recessed LED panel 1200mmx600mm 70W 4500K.</u>   |          |       |        |
| 7       | Supply   | No       | 89.00 |        |
| 8       | Install  | No       | 89.00 |        |
|         | <b>Carried to Collection</b>   |          |       | R      |
|         | Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 5<br>ELECTRICAL INSTALLATION : FIRST FLOOR<br>Keimoes Magistrate's office                     |          |       |        |

|   |         |    |       |
|---|---------|----|-------|
| <b><u>B - IP65 Bulkhead 8W Rectangular b/head, steel body 4500K</u></b>                                 |         |    |       |
| 9   | Supply  | No | 4.00  |
| 10  | Install | No | 4.00  |
| <b><u>P - Vandal resistant 56W ,4000K, LED light for prison cell with tamper proof screws</u></b>       |         |    |       |
| 11  | Supply  | No | 22.00 |
| 12  | Install | No | 22.00 |
| <b><u>P1- IP65 ,36W LED linear light for plant rooms ,4500K</u></b>                                     |         |    |       |
| 13  | Supply  | No | 2.00  |
| 14  | Install | No | 2.00  |
| <b><u>B1 - Vandal Resistant IP65 Bulkhead 18W Rectangular b/head, steel body 4500K + Wire guard</u></b> |         |    |       |
| 15  | Supply  | No | 2.00  |
| 16  | Install | No | 2.00  |
| <b><u>Y - Decorative 10W LED downlight ,4500K</u></b>   |         |    |       |
| 17  | Supply  | No | 26.00 |
| 18  | Install | No | 26.00 |
| <b><u>LD - Decorative LEDDISK-MIDI 16W,4500K</u></b>  |         |    |       |
| 19  | Supply  | No | 13.00 |
| 20  | Install | No | 13.00 |
| <b><u>2 -IP65 UP &amp; Down light LEDDUO 7W/7W,4500K</u></b>  |         |    |       |
| 21  | Supply  | No | 9.00  |
| 22  | Install | No | 9.00  |

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**D1 - Recessed LED panel 595mmx595mm 40W 4500K with Emergency backup battery supply.**

|    |         |    |      |
|----|---------|----|------|
| 23 | Supply  | No | 3.00 |
| 24 | Install | No | 3.00 |

**D2 - Recessed LED panel 1200mmx600mm 70W 4500K with emergency backup battery supply**

|    |         |    |      |
|----|---------|----|------|
| 25 | Supply  | No | 9.00 |
| 26 | Install | No | 9.00 |

**P - Vandal resistant 56W ,4000K, LED light for prison cell with tamper proof screws with emergency backup battery supply**

|    |         |    |      |
|----|---------|----|------|
| 27 | Supply  | No | 3.00 |
| 28 | Install | No | 3.00 |

**Power skirting**

2-channel steel, coated Grey Power Skirting complete with cover plates, bends, endcaps, conduit from wall box to wiring channel, supports etc., as per details. No cutting of the skirting to provide bends will be permitted.

|    |                         |   |        |
|----|-------------------------|---|--------|
| 29 | Supply                  | m | 189.00 |
| 30 | Install as per drawings | m | 189.00 |

**CONDUIT AND CONDUIT ACCESSORIES**

NOTE: ALL CONDUIT AND CONDUIT ACCESSORIES WILL BE OF THE METAL TYPE, AND BOXES CAST INTO CONCRETE SLABS, WILL BE OF THE MALLEABLE CAST METAL TYPE, AS PER SPECIFICATION.

**Light Point:**

Supply and install conduit, outlet boxes, draw boxes, expansion joint boxes, new wiring, etc. as shown on the drawings and on the schematic layout of the distribution boards, but excluding the light switch.

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|    |  |    |        |
|----|--|----|--------|
|    | <b><u>Light point for recessed fitting, complete with 5Amp unswitched socket outlet, connected to duct.</u></b>                  |    |        |
|    | <u>Wired with 2,5mm<sup>2</sup> conductor and 2,5mm<sup>2</sup> earth conductor.</u>   |    |        |
| 31 | New internal light point   | No | 298.00 |
|    | <u>Wired with 4mm<sup>2</sup> 600/1000V PVC SWA cable and 2,5mm<sup>2</sup> earth conductor.</u>                                 |    |        |
| 32 | New External light points  | No | 4.00   |
|    | <b><u>Light Switches:</u></b>  |    |        |
|    | <b><u>Supply light switches with PVC covers (white) and screws complete, but excluding the conduit, wall box and wiring.</u></b> |    |        |
| 33 | 1 Lever - 1 Way  | No | 45.00  |
| 34 | 1 Lever - 2 Way  | No | 18.00  |
| 35 | Day / Night switch   | No | 2.00   |
| 36 | Room Occupancy sensor  | No | 25.00  |
| 37 | 1 Lever - 3 Way  | No | 2.00   |
|    | <b><u>Install complete with connections, but excluding conduit and wires-</u></b>  |    |        |
| 38 | 1 Lever - 1 Way  | No | 45.00  |
| 39 | 1 Lever - 2 Way  | No | 18.00  |
| 40 | Day / Night switch   | No | 2.00   |
| 41 | Room Occupancy sensor  | No | 25.00  |
| 42 | 1 Lever - 3 Way  | No | 2.00   |

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**Switch Socket Outlets:**

Supply & Install new wiring, conduit ,wall boxes, ceiling boxes, draw boxes, expansion boxes, draw wire etc. as shown on the drawings and on the schematic layout of the distribution boards, but excluding the socket

**Wall/Ceiling Mounted**

Wall mounted recessed socket outlet ,excluding socket - (Standby)

|    |   |    |       |
|----|---|----|-------|
| 43 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor. | No | 35.00 |
|----|---|----|-------|

**Power skirting mounted**

Recessed socket outlet in power skirting but excluding the skirting and socket switch - (standby)

|    |   |    |       |
|----|---|----|-------|
| 44 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor. | No | 87.00 |
|----|---|----|-------|

Recessed socket outlet in power skirting but excluding the skirting and socket switch - (UPS)

|    |   |    |      |
|----|---|----|------|
| 45 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor. | No | 5.00 |
|----|---|----|------|

**Ceiling Mounted**

UPS type mounted in ceiling void, excluding socket - (UPS)

|    |   |    |       |
|----|---|----|-------|
| 46 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> insulated earth conductor. | No | 14.00 |
|----|---|----|-------|

**Floor box Mounted**

Floor box mounted recessed socket outlet ,excluding socket -(Standby)

|    |   |    |      |
|----|---|----|------|
| 47 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor. | No | 3.00 |
|----|---|----|------|

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|    |   |    |       |   |
|----|---|----|-------|---|
|    | <u>Floor box mounted recessed socket outlet ,excluding socket -(UPS)</u>  |    |       |   |
| 48 | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.   | No | 3.00  |   |
|    | <b><u>Switch Socket:</u></b>  |    |       |   |
|    | <b><u>Supply &amp; Install switch socket, complete with covers, screws, clips and PLUG TOP for each type of S.S.O., but excluding wall box, conduit and wiring.</u></b> |    |       |   |
| 49 | Standby type wall mounted - 3pin single outlet (White cover & red switch)   | No | 29.00 |   |
| 50 | Standby type wall mounted - 3pin double outlet (White cover & red switch)   | No | 4.00  |   |
| 51 | Standby type in power skirting - 3pin single outlet (white cover & red switch & red outlet)   | No | 68.00 |   |
| 52 | Standby type in power skirting - 2 pin single outlet (white cover & red switch)   | No | 34.00 |   |
| 53 | UPS type in power skirting - 2pin single outlet (white cover & blue switch )  | No | 1.00  |   |
| 54 | UPS type in power skirting - 3pin outlet (white cover & blue switch)  | No | 6.00  |   |
| 55 | UPS type wall mounted - 3pin outlet (white cover & blue switch & surface 4x4 box)   | No | 7.00  |   |
|    | <b><u>Floor box</u></b>   |    |       |   |
| 56 | Supply & installation of floor reticulation box complete as per Electrical layout engineers drawings.   |    | Item  |   |
| 57 | Standby type in floor box - 3pin single outlet (White cover & red switch)   | No | 3.00  |   |
| 58 | Standby type in floor box - 2pin single outlet (White cover & red switch)   | No | 2.00  |   |
| 59 | UPS type in floor box - 3pin outlet (white cover & blue switch)   | No | 3.00  |   |
|    | <b>Carried to Collection</b>  |    |       | R |
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|    |  |    |      |
|----|--|----|------|
| 60 | UPS type in floor box - 2pin outlet (white cover & blue switch)  | No | 2.00 |
|    | <b><u>Isolator Points:</u></b>   |    |      |
|    | Supply and install isolators, conduit, outlet boxes, draw boxes, expansion joint boxes, wiring, etc. as shown on the drawings and on the schematic layout of the distribution boards ,HVAC power point drawing and power point drawings. |    |      |
|    | <b><u>Power Points supplied from Distribution Boards</u></b>   |    |      |
|    | <u>DB 4</u>  |    |      |
| 61 | AC 24  |    | Item |
| 62 | AC 25  |    | Item |
| 63 | AC 26  |    | Item |
| 64 | EF 13  |    | Item |
| 65 | AC 27  |    | Item |
| 66 | AC 28  |    | Item |
| 67 | AC 29  |    | Item |
| 68 | HRU 1 (20 A,1ø)  |    | Item |
| 69 | AC 30  |    | Item |
| 70 | AC 31  |    | Item |
| 71 | AC 32  |    | Item |
| 72 | AC 33A   |    | Item |
| 73 | AC 33B   |    | Item |
| 74 | HRU 2 (20A,1ø)   |    | Item |
| 75 | AC 34  |    | Item |
| 76 | AC 35  |    | Item |

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|   |  |      |           |
|---|--|------|-----------|
| 77  | AC 36  | Item |           |
| 78  | AC 37  | Item |           |
| 79  | AC 38  | Item |           |
| 80  | AC 39  | Item |           |
| 81  | AC 40  | Item |           |
| 82  | EF 11  | Item |           |
| 83  | EF 10  | Item |           |
| 84  | HRU 3 (20A,1ø)   | Item |           |
| 85  | AC 43A   | Item |           |
| 86  | AC 43B   | Item |           |
| 87  | AC 42  | Item |           |
| 88  | AC 41  | Item |           |
| 89  | AC 23A   | Item |           |
| 90  | AC 23B   | Item |           |
| 91  | AC 45  | Item |           |
| 92  | AC 46  | Item |           |
| 93  | EF 12  | Item |           |
| 94  | AC 47  | Item |           |
| 95  | EF 9   | Item |           |
| 96  | AC 49  | Item |           |
| 97  | AC 44  | Item |           |
| 98  | Allow budgetary amount of Sixty One Thousand Eight Hundred and Eighty Six Rand for HVAC power installation on roof | Item | 61,886.00 |
| <b>Carried to Collection</b>  |  |      |           |
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**OUTLET POINTS**

**HVAC**

Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; for HVAC equipment in ceiling void to position of wired remote & stop/start switch as indicated on the drawings complete.

|    |  |    |       |
|----|--|----|-------|
| 99 | Outlet point in wall for wired control of air conditioner, complete with round outlet box flush mounted in wall and 20mmø PVC conduit from ac indoor unit as per Mechanical engineers drawings | No | 45.00 |
|----|--|----|-------|

**DATA**

Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from DATA Cabinet position void to position of data outlet box as indicated on the Tel&Data layout drawings complete.

|     |  |    |       |
|-----|--|----|-------|
| 100 | Outlet point in wall for data point, complete with 2x4 outlet box flush mounted in wall and 25mmø PVC conduit from data wiring channel as per Tel&Data layout engineers drawings | No | 29.00 |
|-----|--|----|-------|

**TELEPHONE**

Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from TELEPHONE Patch panel position to position of telephone outlet box as indicated on the Tel&Data layout drawings complete.

|     |   |    |       |
|-----|---|----|-------|
| 101 | Outlet point in wall for telephone point, complete with 2x4 outlet box flush mounted in wall and 25mmø PVC conduit from telephone Patch Panel as perTel&Data engineers drawings | No | 29.00 |
|-----|---|----|-------|

**TV**

|     |  |    |      |
|-----|--|----|------|
| 102 | Supply and install 30m 25mm <sup>2</sup> conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from ceiling void to position of TV outlet box . | No | 2.00 |
|-----|--|----|------|

**ACCESS CONTROL**

**Carried to Collection**

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|     |  |    |       |   |
|-----|--|----|-------|---|
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from security wire way P9000 position to position of biometric reader outlet box as indicated on the Access control layout drawings complete.</u> |    |       |   |
| 103 | Outlet point in wall for biometric reader, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings  | No | 18.00 |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from biometric reader to position of magnetic door lock as indicated on the drawings complete.</u>  |    |       |   |
| 104 | Outlet point in door frame for magnetic door lock, 25mmø PVC conduit from biometric reader as per engineers drawings   | No | 9.00  |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from door magnet position void to position of Break glass unit outlet box as indicated on the drawings complete.</u>                              |    |       |   |
| 105 | Outlet point in wall for break glass unit, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings  | No | 5.00  |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electrical turn stile control gear to position of emergency stop start switch unit outlet box as indicated on the drawings complete.</u>     |    |       |   |
| 106 | Outlet point in wall for stop start switch, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings   | No | 1.00  |   |
|     | <b><u>CCTV</u></b>   |    |       |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronic wiring tray in ceiling void to position of CCTV camera unit outlet box as indicated on the drawings</u>                           |    |       |   |
| 107 | Outlet point for CCTV camera, complete with round outlet box and 25mmø PVC conduit as per engineers drawings   | No | 9.00  |   |
|     | <b>Carried to Collection</b>   |    |       | R |
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|     |  |    |       |   |
|-----|--|----|-------|---|
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; to position of CCTV camera unit outlet box as indicated on the drawings</u>   |    |       |   |
| 108 | Outlet point for external CCTV camera, complete with round outlet box and 25mmø PVC conduit as per engineers drawings  | No | 7.00  |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; to position of CCTV monitor unit outlet box as indicated on the drawings</u>  |    |       |   |
| 109 | Outlet point for CCTV monitor, complete with round outlet box and 32mmø PVC conduit as per engineers drawings  | No | 2.00  |   |
|     | <b><u>FIRE DETECTION</u></b>   |    |       |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of smoke detector or heat sensor as indicated on the drawings complete.</u> |    |       |   |
| 110 | Outlet point in ceiling space for smoke detector, fire strobe, fire alarm & heat sensor, complete with round outlet box and 25mmø bosal conduit as per engineers drawings  | No | 79.00 |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; to position of Break glass unit outlet box as indicated on the drawings complete.</u>   |    |       |   |
| 111 | Outlet point in wall for break glass unit, complete with round outlet box flush mounted in wall and 25mmø bosal conduit from fire wiring channel as per engineers drawings   | No | 2.00  |   |
|     | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of Fire Panel outlet box as indicated on the drawings complete.</u>         |    |       |   |
| 112 | Outlet point in wall for Fire Panel, complete with round outlet box flush mounted in wall and 30m x 3 x 32mmø PVC conduit from fire wiring channel as per engineers drawings   | No | 1.00  |   |
|     | <b>Carried to Collection</b>   |    |       | R |
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|            |   |           |             |          |  |
|------------|---|-----------|-------------|----------|--|
|            | <p><u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of PA mic outlet box as indicated on the drawings complete.</u></p> |           |             |          |  |
| <p>113</p> | <p>Outlet point in wall for PA mic, complete with round outlet box flush mounted in wall and 1 x 32mmø bosal conduit from fire wiring channel as per engineers drawings</p>   | <p>No</p> | <p>1.00</p> |          |  |
| <p>114</p> | <p>Connect electrical equipment supplied by others, complete to their specifications, power point drawings and distribution schematic to assist with testing and commissioning to Engineers requirements.</p>                       | <p>No</p> | <p>5.00</p> |          |  |
| <p>115</p> | <p>TESTING AND COMMISSIONING OF THE COMPLETE ELECTRICAL INSTALLATION, TO SANS 10142, AS REVISED</p>   |           | <p>Item</p> |          |  |
|            | <p style="text-align: center;"><b>Carried to Collection</b></p> <p>Section No. 5<br/>ELECTRICAL INSTALLATION<br/>Bill No. 5<br/>ELECTRICAL INSTALLATION : FIRST FLOOR<br/><b>Keimoes Magistrate's office</b></p>                    |           |             | <p>R</p> |  |

Section No. 5

ELECTRICAL INSTALLATION

Bill No. 5

ELECTRICAL INSTALLATION : FIRST FLOOR

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Section No. 5

ELECTRICAL INSTALLATION

Bill No. 5

ELECTRICAL INSTALLATION : FIRST FLOOR

**Keimoes Magistrate's office**

| Item No | <b><u>SECTION NO. 5</u></b>  | Quantity | Rate  | Amount |
|---------|--|----------|-------|--------|
|         | <b><u>BILL NO. 6</u></b>   |          |       |        |
|         | <b><u>ELECTRICAL INSTALLATION : BASEMENT</u></b>   |          |       |        |
|         | <b><u>LUMINAIRES</u></b>   |          |       |        |
|         | The supply and installation of luminaires complete with lamps and control gear as specified, and approved by the Engineer, before ordering.  |          |       |        |
|         | <b><u>P1 -Surface mount IP65 LED linear light for basement parking, 1200mmx 95mm 46W 4500K. vapour line.</u></b>   |          |       |        |
| 1       | Supply   | No       | 44.00 |        |
| 2       | Install  | No       | 44.00 |        |
|         | <b><u>CONDUIT AND CONDUIT ACCESSORIES</u></b>  |          |       |        |
|         | NOTE: ALL CONDUIT AND CONDUIT ACCESSORIES WILL BE OF THE METAL TYPE, AND BOXES CAST INTO CONCRETE SLABS, WILL BE OF THE MALLEABLE CAST METAL TYPE, AS PER SPECIFICATION.                                       |          |       |        |
|         | <b><u>Light Point:</u></b>   |          |       |        |
|         | Supply and install conduit, outlet boxes, draw boxes, expansion joint boxes, new wiring, etc. as shown on the drawings and on the schematic layout of the distribution boards, but excluding the light switch. |          |       |        |
|         | <b><u>Light point for recessed fitting, complete with 5Amp unswitched socket outlet, connected to duct.</u></b>  |          |       |        |
|         | <u>Wired with 2,5mm<sup>2</sup> conductor and 2,5mm<sup>2</sup> earth conductor.</u>   |          |       |        |
| 3       | New internal light point   | No       | 44.00 |        |
|         | <b><u>Light Switches:</u></b>  |          |       |        |
|         | <b>Carried to Collection</b>   |          |       | R      |
|         | Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 6<br>ELECTRICAL INSTALLATION : BASEMENT<br><b>Keimoes Magistrate's office</b>   |          |       |        |

|    |  |    |      |
|----|--|----|------|
|    | <u>Supply light switches with PVC covers (white) and screws complete, but excluding the conduit, wall box and wiring.</u>  |    |      |
| 4  | 1 Lever - 1 Way  | No | 8.00 |
| 5  | Day / Night switch   | No | 2.00 |
|    | <u>Install complete with connections, but excluding conduit and wires-</u>   |    |      |
| 6  | 1 Lever - 1 Way  | No | 8.00 |
| 7  | Day / Night switch   | No | 2.00 |
|    | <b><u>Switch Socket Outlets:</u></b>   |    |      |
|    | Supply & Install new wiring, conduit ,wall boxes, ceiling boxes, draw boxes, expansion boxes, draw wire etc. as shown on the drawings and on the schematic layout of the distribution boards, but excluding the socket |    |      |
|    | <b><u>Wall/Ceiling Mounted</u></b>   |    |      |
|    | <u>Wall mounted recessed socket outlet ,excluding socket - (Standby)</u>   |    |      |
| 8  | Wired with 4mm <sup>2</sup> conductor and 2,5mm <sup>2</sup> earth conductor.  | No | 6.00 |
|    | <b><u>Switch Socket:</u></b>   |    |      |
|    | <b><u>Supply &amp; Install switch socket, complete with covers, screws, clips and PLUG TOP for each type of S.S.O., but excluding wall box, conduit and wiring.</u></b>  |    |      |
| 9  | Standby type wall mounted - 3pin single outlet (White cover & red switch)  | No | 3.00 |
| 10 | Standby type wall mounted - 3pin double outlet (White cover & red switch) with york box.   | No | 3.00 |

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Section No. 5  
 ELECTRICAL INSTALLATION  
 Bill No. 6  
 ELECTRICAL INSTALLATION : BASEMENT  
**Keimoes Magistrate's office**



**Isolator Points:**

Supply and install isolators, conduit, outlet boxes, draw boxes, expansion joint boxes, wiring, etc. as shown on the drawings and on the schematic layout of the distribution boards ,HVAC power point drawing and power point drawings.

**Power Points supplied from Distribution Boards**

DB B

11 FP (30A,3ø)

Item

12 Allow budgetary amount of Forty Thousand Five Hundred and Forty Six Rand for fire pump electrical installation

Item

40,546.00

**OUTLET POINTS**

**ACCESS CONTROL**

Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from security wire way P9000 position to position of biometric reader outlet box as indicated on the Access control layout drawings complete.

13 Outlet point in wall for biometric reader, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings

No

6.00

Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from biometric reader to position of magnetic door lock as indicated on the drawings complete.

14 Outlet point in door frame for magnetic door lock, 25mmø PVC conduit from biometric reader as per engineers drawings

No

3.00

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Section No. 5  
ELECTRICAL INSTALLATION  
Bill No. 6  
ELECTRICAL INSTALLATION : BASEMENT  
**Keimoes Magistrate's office**

|    |  |    |       |   |
|----|--|----|-------|---|
|    | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from door magnet position void to position of Break glass unit outlet box as indicated on the drawings complete.</u>                    |    |       |   |
| 15 | Outlet point in wall for break glass unit, complete with round outlet box flush mounted in wall and 25mmø PVC conduit as per engineers drawings  | No | 3.00  |   |
|    | <b><u>CCTV</u></b>   |    |       |   |
|    | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronic wiring tray in ceiling void to position of CCTV camera unit outlet box as indicated on the drawings</u>                 |    |       |   |
| 16 | Outlet point for CCTV camera, complete with round outlet box and 25mmø PVC conduit as per engineers drawings   | No | 3.00  |   |
|    | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; to position of CCTV camera unit outlet box as indicated on the drawings</u>   |    |       |   |
| 17 | Outlet point for external CCTV camera, complete with round outlet box and 25mmø PVC conduit as per engineers drawings  | No | 3.00  |   |
|    | <b><u>FIRE DETECTION</u></b>   |    |       |   |
|    | <u>Supply and install conduit, outlet boxes, draw wire, draw boxes, expansion joint boxes, etc ; from electronics wiring channel in ceiling void to position of smoke detector or heat sensor as indicated on the drawings complete.</u> |    |       |   |
| 18 | Outlet point surface mounted for smoke detector, fire strobe, fire alarm & heat sensor, complete with round outlet box and 25mmø bosal conduit as per engineers drawings   | No | 12.00 |   |
|    | <b>Carried to Collection</b>   |    |       | R |
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Section No. 5

ELECTRICAL INSTALLATION

Bill No. 6

ELECTRICAL INSTALLATION : BASEMENT

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ELECTRICAL INSTALLATION

Bill No. 6

ELECTRICAL INSTALLATION : BASEMENT

**Keimoes Magistrate's office**

| Item No | SECTION NO. 5  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>GENERATOR INSTALLATION</u></b></p> <p><b><u>NEW GENERATOR SET</u></b></p> <p>350kVA, 420V Silent Self-contained Canopy/ Container type Prime Power Generator Set, Engine close coupled to alternator, radiator and exhaust system mounted onto base/skid tank (1x650Lt) via anti-vibration mountings complete with:</p> <ul style="list-style-type: none"> <li>*Sound &amp; weather proof canopy (85dbA@1m)</li> <li>*Anti-corrosion powder coated phosphate priming.</li> <li>*Inlet dust filters with louvres.</li> <li>*Protective mesh for rotating parts.</li> <li>*Exterior emergency stop push button.</li> <li>*Residential silencer inside canopy *Thermally insulated engine exhaust system.</li> <li>*3 Doors lockable on each side of engine compartment.</li> <li>*1 Door lockable at electrical compartment.</li> <li>*Panel window.</li> <li>*Access to radiator filling cap.</li> <li>*Deep Sea Electronics Genset controller.</li> <li>*500A Fully Automatic change over switch.</li> <li>*Bosch 105A/Hour maintenance free batteries</li> <li>*Jacket heater element.</li> <li>*Automatic fuel electric filling pump with 10m hose.</li> <li>*Perkins diesel ,CAT or Volvo engine capable of producing 350 kVA at a elevation of 835m above sea level under prime power conditions</li> <li>*350 kVA @ 0.8 P.F three phase Leroy Somer single bearing, Brush less Alternator coupled via flange and flexible coupling.</li> <li>*24V 10A battery chargers</li> <li>*Industrial automatic CO2 Fire suppression system including controller, steel piping and cylinder inside canopy</li> <li>*Ammeters, voltmeters and frequency displayed on controller.</li> </ul> |          |      |        |
| 1       | Supply including delivery in Keimoes in the Northern Cape  | Item     |      |        |
|         | <b>Carried to Collection</b>   |          |      | R      |
|         | <p>Section No. 5<br/>           ELECTRICAL INSTALLATION<br/>           Bill No. 7<br/>           GENERATOR INSTALLATION<br/> <b>Keimoes Magistrate's office</b></p>  |          |      |        |

|  |   |    |      |           |
|--|---|----|------|-----------|
| 2  | Install complete including rigging in position .  |    | Item |           |
| 3  | Commissioning complete  |    | Item |           |
| 4  | Allow Prime cost amount of Forty Thousand Five Hundred and Forty Six Rand for factory acceptance test witnessing by engineer. |    | Item | 40,546.00 |
| 5  | Supply service kit complete for generator set ( diesel, oil, air and hydraulic filters)                                       | No | 2.00 |           |
| <b><u>GENERATOR INSTALLATION : MANUALS AND AS-BUILD DOCUMENTS</u></b>  |   |    |      |           |
| 6  | Compilation of Operation and Maintenance Manuals and on-site Training for Generator installation.                             |    | Item |           |
| 7  | TESTING AND COMMISSIONING OF THE COMPLETE ELECTRICAL INSTALLATION COMPLETE IN WORKING ORDER TO SANS 10142, AS REVISED         |    | Item |           |
| <b>Carried to Collection</b>   |   |    |      |           |
|  |   |    |      | R         |
| Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 7<br>GENERATOR INSTALLATION<br><b>Keimoes Magistrate's office</b> |   |    |      |           |

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ELECTRICAL INSTALLATION

Bill No. 7

GENERATOR INSTALLATION

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ELECTRICAL INSTALLATION

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GENERATOR INSTALLATION

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| Item No | <b><u>SECTION NO. 5</u></b>   | Quantity | Rate | Amount |
|---------|---|----------|------|--------|
|         | <b><u>BILL NO. 8</u></b>  |          |      |        |
|         | <b><u>WHEEL CHAIR LIFT INSTALLATION</u></b>   |          |      |        |
|         | <b>NOTE:</b><br>No material or equipment for this section must be ordered or purchased without a instruction from the Engineer.<br>All items are remeasurable.                          |          |      |        |
|         | <b><u>PLATFORM LIFT</u></b>   |          |      |        |
|         | <b><u>Supply and Install Cabin platform lift similar and approved to Vimec Easy Move E-10 and capable of traveling 3 levels(basement, ground floor ,first floor) complete with:</u></b> |          |      |        |
|         | <b><u>*Grey cabin walls</u></b>   |          |      |        |
|         | <b><u>*400KG Capacity</u></b>   |          |      |        |
|         | <b><u>*16m Travel</u></b>   |          |      |        |
|         | <b><u>*Cabin size - 1400mm x 1400mm</u></b>   |          |      |        |
|         | <b><u>*Platform floor - "Rubber series" with grey stamps</u></b>  |          |      |        |
|         | <b><u>*On-board and on the floor 50 m buttons with braille with display unit</u></b>  |          |      |        |
|         | <b><u>*"Energy saving" with LED bar ceiling</u></b>   |          |      |        |
|         | <b><u>*Hollow veneered doors with window.</u></b>   |          |      |        |
| 1       | Supply complete   | No       | 1.00 |        |
| 2       | Install complete  | No       | 1.00 |        |
| 3       | Commissioning of the unit complete  |          | Item |        |
|         | <b><u>STAIR CASE WHEEL CHAIR PLATFORM</u></b>   |          |      |        |
|         | <b><u>Supply, Install and design a stair case wheel chair platform lift capable of traveling 3 levels(basement, ground floor ,first floor) complete.</u></b>                            |          |      |        |
|         | <b><u>NB-Stair case lift is only applicable for "Stair Case 5"</u></b>  |          |      |        |
| 4       | Supply complete   |          | Item |        |
| 5       | Install complete  |          | Item |        |
|         | <b>Carried to Collection</b>  |          |      | R      |
|         | Section No. 5<br>ELECTRICAL INSTALLATION<br>Bill No. 8<br>WHEEL CHAIR LIFTS<br><b>Keimoes Magistrate's office</b>   |          |      |        |



|   |   |      |
|---|---|------|
| 6 | Commissioning of the unit complete  | Item |
|   | <b><u>STAIR CASE LIFT &amp; PLATFORM LIFT<br/>INSTALLATION : MANUALS AND AS-BUILD<br/>DOCUMENTS</u></b> |      |
| 7 | Compilation of Operation and Maintenance Manuals and on-site Training for Generator installation.       | Item |
| 8 | TESTING AND COMMISSIONING OF THE COMPLETE LIFT INSTALLATION COMPLETE IN WORKING ORDER.                  | Item |

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Bill No. 8  
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ELECTRICAL INSTALLATION

Bill No. 8

WHEEL CHAIR LIFTS

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WHEEL CHAIR LIFTS

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ELECTRICAL INSTALLATION

**SECTION SUMMARY - ELECTRICAL INSTALLATION**

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 ELECTRICAL INSTALLATION  
**Keimoes Magistrate's office**

## **SECTION 6**

# **ELECTRONIC INSTALLATION**

| Item No   | Quantity | Rate | Amount |
|---|----------|------|--------|
| <p><b><u>SECTION NO. 6</u></b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>ENGINEERING CONDITIONS</u></b></p> <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p> <p><b>NOTE:</b></p> <p>All installations shall be complete in all respects and the contractor shall allow for the installation and successful operation of the complete installation, irrespective of whether every separate item is listed in the Bills of Quantities or not and when it would be logical and reasonable that such items automatically form part of a larger part of the works and is necessary to satisfy the acceptance criteria and to facilitate a complete working system.</p> <p>All items as listed in the Bills of Quantities shall include all other associated features/accessories/requirements as described in the specification.</p> <p>The tenderer must familiarise himself with the specification and drawing/s and ensure that tender prices allow for full compliance. It will be assumed that the Tenderer complies with all tender documentation.</p> <p><b><u>LOCAL CONTENT</u></b></p> <p>Bidder's sub-contractor shall comply with the LOCAL CONTENT obligations as prescribed by PPPFA Regulation 2017 (Regulation 8) and National Treasury Instruction 5 of 2016/176 for designated sector, "Electrical cables products", which prescribes a Local Content target for the designated sector of at least 90%. The local content target is applicable to the installation or replacement of electrical, telecommunications, local area network data and voice cable products.</p> |          |      |        |
| <p><b>Carried to Collection</b></p>   |          |      | R      |
| <p>Section No. 6<br/>ELECTRONIC INSTALLATION<br/>Bill No. 1<br/>ENGINEERING CONDITIONS<br/><b>Keimoes Magistrate's office</b></p>   |          |      |        |

**INDUSTRY AUTHORITY REGISTRATION**

Bidder's sub-contractor shall be PSIRA (Private Security Industry Regulatory Authority) registered.

Bidder shall provide a copy of a valid certificate/letter indicating clearly

- (a) the regulator or professional body's name, and
- (b) the bidder's name
- (c) date of issue/registration
- (d) date until valid

**OEM CERTIFICATION**

Bidder's sub-contractor shall be certified as Original Equipment Manufacturer Partner/Reseller and Installer for the product the bidder is proposing.

**PRESENCE REQUIREMENTS**

The bidder's sub-contractor shall have service delivery outlets or offices that are located in the province(s) that the works the bidder is bidding for is located.

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Section No. 6  
ELECTRONIC INSTALLATION  
Bill No. 1  
ENGINEERING CONDITIONS  
**Keimoes Magistrate's office**

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**EXPERIENCE/CAPABILITY REQUIREMENT**

The bidder's sub-contractor shall have provided solutions to at least two (2) customers during the past five (5) years in the respective equipment fields (See note below).

They must provide 2 letters of affirmation from Business or Government customers to whom the project or service was delivered or a sworn affidavit to this effect. Each letter must be dated, signed and on a letterhead of the customer and indicates:

- The customer Company name and physical address;
- Customer contact person's name, telephone number and email address;
- Product scope; and
- Project Start and End Date

Note:

1. The equipment fields to be covered are:
  - a. Access control
  - b. Fire detection
  - c. Closed circuit television
  - d. Building management system
  - e. Telephone and data networking
  - f. Public announcement and telephone exchange (PABX)
  - g. Court recording systems(CRT)
  
2. The supporting evidence shall demonstrate bidder's certification, experience, and capability in each of the respective fields that the bidder is bidding for
  
3. Supporting evidence must be attached or provided in clearly marked Annexure as proof of compliance.

It is compulsory for the bidder to submit all supporting documents with the bid document at time of closing.

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ELECTRONIC INSTALLATION  
Bill No. 1  
ENGINEERING CONDITIONS  
**Keimoes Magistrate's office**

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**GENERAL CONDITIONS**

- |   |   |      |
|---|---|------|
| 1 | Meetings during the contract  | Item |
| 2 | Operation manuals as per specification.   | Item |
| 3 | 12 Month guarantee on the installations.  | Item |
| 4 | Allow for testing, inspections, commissioning and issuing Certificates of Compliance (COC's). | Item |

**AS BUILD DRAWINGS AND DIAGRAMS:**

- |   |  |      |
|---|--|------|
| 5 | Tenderer to allow for all costs associated with supplying as build drawings and diagrams per area for this contract. | Item |
|---|--|------|

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 ELECTRONIC INSTALLATION  
 Bill No. 1  
 ENGINEERING CONDITIONS  
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Section No. 6

ELECTRONIC INSTALLATION

Bill No. 1

ENGINEERING CONDITIONS

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Section No. 6

ELECTRONIC INSTALLATION

Bill No. 1

ENGINEERING CONDITIONS

**Keimoes Magistrate's office**

| Item No | <b><u>SECTION NO. 6</u></b>   | Quantity | Rate  | Amount |
|---------|---|----------|-------|--------|
|         | <b><u>BILL NO. 2</u></b>  |          |       |        |
|         | <b><u>ACCESS CONTROL &amp; CCTV INSTALLATIONS:</u></b>  |          |       |        |
|         | <b><u>NOTE:</u></b>   |          |       |        |
|         | No material or equipment for this section must be ordered or purchased without a instruction from the Engineer & Client.  |          |       |        |
|         | Tenderers are referred to the specification and drawings accompanying these bills of quantities for the electronic work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings                                       |          |       |        |
|         | <b><u>IP Access Control System Supply, delivery, installation, testing, commissioning and handing over of a complete Access Control System, complete with all equipment such as Biometric readers, magnetic door locks, push buttons, etc. and all wiring, distribution boards, etc. as needed.</u></b> |          |       |        |
|         | <b><u>Biometric reader/Card reader combination unit complete as per specification, installed where indicated on Drawings.</u></b>   |          |       |        |
|         | <u>Surface Mounted on Wall</u>  |          |       |        |
| 1       | Supply  | No       | 51.00 |        |
| 2       | Install   | No       | 51.00 |        |
|         | <u>Push button release for doors complete as per specification, installed where indicated on drawings</u>   |          |       |        |
| 3       | Supply  | No       | 5.00  |        |
| 4       | Install   | No       | 5.00  |        |
|         | <b>Carried to Collection</b>  |          |       | R      |
|         | Section No. 6<br>ELECTRONIC INSTALLATION<br>Bill No. 2<br>ACCESS CONTROL AND CCTV INSTALLATIONS<br><b>Keimoes Magistrate's office</b>   |          |       |        |

**Complete supply, installation and programming of access control software. (Software shall be Impro of Softcon or equal and approved)**

5 Supply Item

6 Install Item

**Personal Computers with all hardware , software , peripherals , 2 x finger enrolment devices and 19" LED monitor .**

7 Supply Item

8 Install Item

**Ethernet controllers as required complete .**

9 Supply Item

10 Install Item

**Total Cost for the supply and installation of all wiring, cabling, etc. required for the complete access control system . Type - CAT7A FUTP (blue)**

11 Supply m 3,000.00

12 Install m 3,000.00

**Door magnet -electronic lock complete, installed where indicated on drawings**

13 Supply No 26.00

14 Install No 26.00

**Break glass units (green) complete, installed where indicated on drawings**

15 Supply No 26.00

16 Install No 26.00

**IP CCTV SYSTEMS**

**All equipment shall be complete and as per specification**

Carried to Collection

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 2  
 ACCESS CONTROL AND CCTV INSTALLATIONS  
 Keimoes Magistrate's office

|  |         |            |
|--|---------|------------|
| <u>Dome CCTV camera complete, installed where indicated on drawings. Identification Range Humans (1.8x0.5m) @ 55meter 8 MP IR Varifocal Dome Network Camera</u>                    |         |            |
| 17   | Supply  | No 55.00   |
| 18   | Install | No 55.00   |
| <u>Thermal &amp; Optical ,weather-proof , vandal-proof bullet network camera complete, installed where indicated on drawings. Identification Range Humans (1.8x0.5m) @ 80meter</u> |         |            |
| 19   | Supply  | No 26.00   |
| 20   | Install | No 26.00   |
| <u>2 x 64 Channel NVR with a 4 x 6TB hard drive complete with software ,54"LED monitor in working order.</u>   |         |            |
| 21   | Supply  | No 1.00    |
| 22   | Install | No 1.00    |
| <u>Total Cost for the supply and installation of all wiring, cabling, etc. required for the complete CCTV system. Type - CAT 7A FUTP (green)</u>                                   |         |            |
| 23   | Supply  | m 4,500.00 |
| 24   | Install | m 4,500.00 |
| <b><u>INTERCOM SYSTEMS</u></b>   |         |            |
| <u>Intercom unit wall mounted at entrance door, installed where indicated on drawings</u>  |         |            |
| 25   | Supply  | No 2.00    |
| 26   | Install | No 2.00    |
| <u>Intercom unit handset at SAPS station , installed where indicated on drawings</u>   |         |            |
| 27   | Supply  | No 2.00    |
| <b>Carried to Collection</b>   |         |            |
| Section No. 6<br>ELECTRONIC INSTALLATION<br>Bill No. 2<br>ACCESS CONTROL AND CCTV INSTALLATIONS<br><b>Keimoes Magistrate's office</b>  |         |            |

R

|   |         |    |        |
|---|---------|----|--------|
| 28  | Install | No | 2.00   |
| <p><b><u>Total Cost for the supply and installation of all wiring, cabling, etc. required for the complete intercom system.</u></b></p> |         |    |        |
| 29  | Supply  | m  | 500.00 |
| 30  | Install | m  | 500.00 |

**Carried to Collection**

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 2  
 ACCESS CONTROL AND CCTV INSTALLATIONS  
**Keimoes Magistrate's office**

Section No. 6

ELECTRONIC INSTALLATION

Bill No. 2

ACCESS CONTROL AND CCTV INSTALLATIONS

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Section No. 6

ELECTRONIC INSTALLATION

Bill No. 2

ACCESS CONTROL AND CCTV INSTALLATIONS

**Keimoes Magistrate's office**

| Item No | <b><u>SECTION NO. 6</u></b>   | Quantity | Rate   | Amount |
|---------|---|----------|--------|--------|
|         | <b><u>BILL NO. 3</u></b>  |          |        |        |
|         | <b><u>FIRE ALARM SYSTEM</u></b>   |          |        |        |
|         | <b><u>Notes:</u></b>  |          |        |        |
|         | The Complete Installation must comply to all the relevant SABS Standards and to all the Specifications that forms part of this Document.                        |          |        |        |
|         | Tenderers are advised to study the Specifications in detail, as all the items needed to complete the installation, are not necessary in the Bill of Quantities. |          |        |        |
|         | <b><u>MASTER CONTROL PANEL:</u></b>   |          |        |        |
| 1       | Supply Master Control Panel (MULTI STATE ADDRESSABLE SYSTEM), complete as to the Specifications as needed for the amount of detectors indicated on drawings     | Item     |        |        |
| 2       | Install in Security Office, complete as to the Specifications.  | Item     |        |        |
| 3       | Allow for RF link to municipal fire brigade complete  | Item     |        |        |
| 4       | Allow for link to Building Management System (BMS) complete including controllers   | Item     |        |        |
|         | <b><u>FIRE ALARM SYSTEM: DETECTORS AND OTHER EQUIPMENT:</u></b>   |          |        |        |
|         | <b><u>DETECTORS:</u></b>  |          |        |        |
|         | <u>Smoke Detectors complete against ceiling or slab, with wiring</u>  |          |        |        |
| 5       | Supply  | No       | 135.00 |        |
| 6       | Install   | No       | 135.00 |        |
|         | <b>Carried to Collection</b>  |          |        | R      |
|         | Section No. 6<br>ELECTRONIC INSTALLATION<br>Bill No. 3<br>FIRE ALARM SYSTEMS<br><b>Keimoes Magistrate's office</b>  |          |        |        |

|    |  |    |       |
|----|--|----|-------|
|    | <u>Optical Smoke detector complete with Remote LED for sensors in ceiling void, with wiring</u>  |    |       |
| 7  | Supply   | No | 25.00 |
| 8  | Install  | No | 25.00 |
|    | <u>Heat detector complete with wiring</u>  |    |       |
| 9  | Supply   | No | 49.00 |
| 10 | Install  | No | 49.00 |
|    | <b><u>BREAK GLASS UNIT:</u></b>  |    |       |
| 11 | Supply "Break Glass" Unit complete   | No | 8.00  |
| 12 | Install against wall   | No | 8.00  |
|    | <b><u>FIRE SIREN UNIT</u></b>  |    |       |
| 13 | Supply "Audible Alarm" Unit complete   | No | 10.00 |
| 14 | Install against ceiling complete   | No | 10.00 |
|    | <b><u>STROBE LIGHT UNIT</u></b>  |    |       |
| 15 | Supply "Visual Alarm" Unit complete  | No | 10.00 |
| 16 | Install against Wall complete  | No | 10.00 |
|    | <b><u>EQUIPMENT LINKS</u></b>  |    |       |
|    | <u>Linking of smoke ventilation fans , fresh air fans and refrigerators complete with wiring - refer to mechanical drawings for positions of smoke ventilation fans.</u> |    |       |
| 17 | Supply controllers   | No | 10.00 |
| 18 | Install  | No | 10.00 |

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 3  
 FIRE ALARM SYSTEMS  
**Keimoes Magistrate's office**



|    |  |    |          |
|----|--|----|----------|
|    | <u>Allow for All PH30 Wiring between Main Control Panel and all detection sensors and audible alarm equipment complete in this area, with flexible conduit from outlet box in ceiling void to position of detectors ceiling mounted.</u> |    |          |
| 19 | Supply   | m  | 8,500.00 |
| 20 | Install  | m  | 8,500.00 |
|    | <b><u>INTERCOM AND VOICE EVACUATION SYSTEM</u></b>   |    |          |
|    | <b><u>Allow for all items required to provide the new Intercom and Voice Evacuation System, complete with all peripherals. All shown on the drawings and as per Specification.</u></b>   |    |          |
|    | <u>Supply, Installation, Testing and Commissioning of an 3 channel PA amplifier unit.</u>  |    |          |
| 21 | Supply   | No | 1.00     |
| 22 | Install  | No | 1.00     |
|    | <u>Supply, Installation, Testing and Commissioning of a desktop microphone unit complete.</u>  |    |          |
| 23 | Supply   | No | 1.00     |
| 24 | Install  | No | 1.00     |
|    | <b><u>Supply, Installation, Testing and Commissioning of Loud Speakers, complete</u></b>   |    |          |
|    | <u>Recessed in ceiling</u>   |    |          |
| 25 | Supply   | No | 5.00     |
| 26 | Install  | No | 5.00     |
|    | <u>Surface mounted</u>   |    |          |
| 27 | Supply   | No | 6.00     |
| 28 | Install  | No | 6.00     |

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 3  
 FIRE ALARM SYSTEMS  
 Keimoes Magistrate's office

**Total Cost for the Supply and Installation of all wiring, cabling, etc. required for this intercom & speaker system.**

|    |         |   |          |
|----|---------|---|----------|
| 29 | Supply  | m | 2,000.00 |
| 30 | Install | m | 2,000.00 |

**Commissioning**

|    |   |  |      |
|----|---|--|------|
| 31 | Tenderers to allow for all the commissioned requirements, including testing, attendance, "As Built" drawings, manuals, etc. as set out in the specifications, prior to the installation being taken over as complete. |  | Item |
| 32 | Tenderers to allow for labelling of all devices for this installation.  |  | Item |

**Carried to Collection**

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 3  
 FIRE ALARM SYSTEMS  
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Section No. 6

ELECTRONIC INSTALLATION

Bill No. 3

FIRE ALARM SYSTEMS

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Bill No. 3

FIRE ALARM SYSTEMS

**Keimoes Magistrate's office**

| Item No | SECTION NO. 6  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 4</u></b>   |          |      |        |
|         | <b><u>METAL DETECTOR &amp; X-RAY MACHINE INSTALLATION</u></b>  |          |      |        |
|         | <b><u>NOTE:</u></b>  |          |      |        |
|         | <p><b>No material or equipment for this section must be ordered or purchased without a instruction from the Engineer &amp; Client.</b></p>   |          |      |        |
|         | <p>Tenderers are referred to the specification and drawings accompanying these bills of quantities for the electronic work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings</p>   |          |      |        |
|         | <p><b><u>Supply and Install X-Ray Machine as per specification similar to Astrophysics XIS-6049 and approved complete with:</u></b></p> <ul style="list-style-type: none"> <li>• <b><u>24" LCD Monitors</u></b></li> <li>• <b><u>ASTM 10 Step wedge/ASTM F0792-01E2 Test Case</u></b></li> <li>• <b><u>Climate Variable Operating Kit</u></b></li> <li>• <b><u>Entry / Exit Roller Tables, 0.5 m increment</u></b></li> <li>• <b><u>Extended Image Archiving (100,000 Images)</u></b></li> <li>• <b><u>Foot-mat Operator Interlock</u></b></li> <li>• <b><u>Heavy Duty Rubber Casters</u></b></li> <li>• <b><u>Radiation Meter</u></b></li> <li>• <b><u>Remote Configuration</u></b></li> <li>• <b><u>Screener Assist Threat Detection Software</u></b></li> <li>• <b><u>Threat Image Projection Software</u></b></li> </ul> |          |      |        |
| 1       | Supply including delivery in Keimoes   | No       | 1.00 |        |
| 2       | Install  | No       | 1.00 |        |
| 3       | Commissioning of x-ray machine   | Item     | 1    |        |
| 4       | Registration of device with Department of Justice prior to delivery on site.   | Item     | 1    |        |
|         | <b>Carried to Collection</b>   |          |      | R      |
|         | <p>Section No. 6<br/>ELECTRONIC INSTALLATION<br/>Bill No. 4<br/>METAL DETECTORS AND X-RAY MACHINE<br/><b>Keimoes Magistrate's office</b></p>   |          |      |        |

**Supply and Install Walk-Through Metal Detector as per specification, similar to Garret PD 6500i and approved complete with:**

- **Battery Back Up Module**
- **Control Monitor Analyser (CMA)**
- **Extension Cord (10 ft)**
- **Desktop Remote Control with Zone Indication**
- **Floor Mount Kit**
- **Flat Test Piece (FTP)**
- **Operational Test Piece (OTP)**
- **Remote Control**

|   |  |      |      |
|---|--|------|------|
| 5 | Supply including delivery in Keimoes   | No   | 1.00 |
| 6 | Install  | No   | 1.00 |
| 7 | Commissioning of metal detector machine                                      | Item | 1    |
| 8 | Registration of device with Department of Justice prior to delivery on site. | Item | 1    |

**Carried to Collection**

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 4  
 METAL DETECTORS AND X-RAY MACHINE  
**Keimoes Magistrate's office**

Section No. 6

ELECTRONIC INSTALLATION

Bill No. 4

METAL DETECTORS AND X-RAY MACHINE

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Bill No. 4

METAL DETECTORS AND X-RAY MACHINE

**Keimoes Magistrate's office**

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| Item No | SECTION NO. 6  | Quantity | Rate | Amount       |
|---------|--|----------|------|--------------|
|         | <b><u>BILL NO. 5</u></b>   |          |      |              |
|         | <b><u>COURT RECORDING INSTALLATIONS</u></b>  |          |      |              |
|         | <b><u>NOTE:</u></b>  |          |      |              |
|         | <i>The installation comprising of the Court Recording Technologies will be procured and appointed directly by Department of Justice during the construction process to comply with their cyber security requirements.</i>  |          |      |              |
|         | <b><u>COURT RECORDING TECHNOLOGIES</u></b>   |          |      |              |
| 1       | Allow provisional sum of Three Million One Hundred and Fifty Thousand Rand for the supply, installation and the commissioning of the Court Recording System for 2 x court rooms, complete with and including Sexual Offence System, microphones, switches, data cabinets, wiring, etc and the strip and relocate of the existing court recording system in the existing court room | Item     |      | 3,150,000.00 |
| 2       | Add profit on above if required  |          | %    |              |
| 3       | Allow for attendance on the above, if required   |          | %    |              |
|         | <b>Carried Forward to Summary of Section No. 6</b>   |          | R    |              |
|         | Section No. 6<br>ELECTRONIC INSTALLATION<br>Bill No. 5<br>COURT RECORDING TECHNOLOGY<br><b>Keimoes Magistrate's office</b>   |          |      |              |

| Item No  | Quantity | Rate | Amount       |
|--|----------|------|--------------|
| <b><u>SECTION NO. 6</u></b>  |          |      |              |
| <b><u>BILL NO. 6</u></b>   |          |      |              |
| <b><u>TELEPHONE, DATA &amp; VOIP PABX SYSTEM</u></b>   |          |      |              |
| <b><u>NOTE:</u></b>  |          |      |              |
| <i>The installation comprising of the Telephone, Data &amp; VOIP PABX systems as well as the ICT server, hard drive and software installations and the Prison to Court AVR installations will be procured and appointed directly by Department of Justice during the construction process to comply with their cyber security requirements.</i>      |          |      |              |
| <b><u>TELEPHONE, DATA &amp; VOID PABX SYSTEM</u></b>   |          |      |              |
| 1  | Item     |      | 4,000,000.00 |
| Allow provisional sum of Four Million Rand for the supply, installation and the commissioning of the complete Telephone, Data and VOIP PABX systems complete with and including outlet points,WiFi installations, servers, hard drives, software, wiring and cables, etc and the Telkom connections, deposits and and relocate of the existing lines |          |      |              |
| 2  |          | %    |              |
| Add profit on above if required  |          |      |              |
| 3  |          | %    |              |
| Allow for attendance on the above, if required   |          |      |              |
| <b><u>DEPARTMENT OF JUSTICE ICT SERVER, HARD DRIVE AND SOFTWARE INSTALLATIONS AND AVR INSTALLATIONS</u></b>  |          |      |              |
| 4  | Item     |      | 900,000.00   |
| Allow provisional sum of Nine Hundred Thousand Rand for the supply, installation and the commissioning of the complete Department of Justice ICT Server, hardware and software installations as well as the Prison to Court AVR installation   |          |      |              |
| 5  |          | %    |              |
| Add profit on above if required  |          |      |              |
| 6  |          | %    |              |
| Allow for attendance on the above, if required   |          |      |              |
| <b>Carried Forward to Summary of Section No. 6</b>   |          |      | R            |
| Section No. 6<br>ELECTRONIC INSTALLATION<br>Bill No. 6<br>TELEPHONE, DATA & VOIP PABX SYSTEM<br><b>Keimoes Magistrate's office</b>   |          |      |              |



| Item No | <u>SECTION NO. 6</u>   | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <p><b><u>BILL NO. 7</u></b></p> <p><b><u>BUILDING MANAGEMENT SYSTEM INSTALLATION</u></b></p> <p><b>NOTE:</b></p> <p>Tenderers are advised to study the specification , Electronic &amp; Mechanical layout drawings and coordinate with mechanical &amp; electrical sub-contractor before pricing these bills of quantities .</p> <p><b>The Building Management System (BMS) shall be a proven system of a reputable specialist company and shall form part of the Electronic Installation Sub-Contract.</b></p> <p><b>The specialist sub-contractor shall have at least 10 years experience of a BMS of similar size and complexity.</b></p> <p><b>The BMS shall be MODBUS compatible and shall be fully integrated and installed as a complete package by the BMS specialist. The BMS shall be able to communicate and interface with the VRF Air-Conditioning Management System.</b></p> <p><b>The BMS shall be complete with all wiring and wire ways required for the installation. Wiring shall be carried out as specified in the Standard Specification</b></p> |          |      |        |
| 1       | Allow for coordination session with Client & Engineer on specific requirements before programming and constructions starts.  | Item     |      |        |
| 2       | Allow for coordination with specialist trade contractors.  | Item     |      |        |
|         | <b>Carried to Collection</b>   |          |      |        |
|         | <p>Section No. 6<br/>                     ELECTRONIC INSTALLATION<br/>                     Bill No. 7<br/>                     BUILDING MANAGEMENT SYSTEM<br/>                     Keimoes Magistrate's office</p>   |          | R    |        |

3 **Supply and install operator Interface / personal computer workstation for command entry, information management, network alarm management and database management functions in security room. The minimum requirements in respect of PC hardware shall be:**  
 - Intel Core i9 9900K - 3.60GHz, Turbo @ 5.00 GHz, 8 Core , Socket 1151, 16MB Cache  
 - MSI/Asus/Gigabyte Z390 Motherboard - GeForce RTX 2080Ti 11GB Graphics Card  
 - 16GB DDR4/3600MHz Ultra High Performance Memory - 480GB M.2 NVMe SSD  
 - 960GB 2.5" SATA III SSD  
 - X72 120mm All-In-One Closed Loop CPU Cooler  
 - Dual SP120L PWM and adjustable noise levels software  
 - Other hardware to include hard drive back-up system, serial and parallel parts, keyboard, 32" LED Monitor, LAN communications & WIFI.

Item

4 **Design , supply and install an Graphics application programme .** The programme shall include a create/edit function and a runtime function. An unlimited number of graphics definition files shall be able to be generated and executed. The graphics shall be able to display and provide animation and monitored points and conditions based on real-time data that is acquired, derived or entered. Graphics shall be compiled by the BMS specialist for all the systems.

Item

**Design , supply and install monitoring equipment , gateway controllers , wiring and wire ways for the different systems.**

|    |   |    |        |
|----|---|----|--------|
| 5  | Air-conditioning VRF System (45 points x 4 Units)           | No | 180.00 |
| 6  | Outside Air (4 points)                                      | No | 4.00   |
| 7  | Ventilation Fans (4 points x 5units)                        | No | 20.00  |
| 8  | Single Air-Conditioning units (5 points x 45 units)         | No | 225.00 |
| 9  | Municipal water supply including pressure sensor (2 points) | No | 3.00   |
| 10 | Electrical Mains  | No | 6.00   |
| 11 | Fire & Fresh Water Pumps (3 points x 4 units)               | No | 12.00  |

**Carried to Collection**

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Section No. 6  
 ELECTRONIC INSTALLATION  
 Bill No. 7  
 BUILDING MANAGEMENT SYSTEM  
**Keimoes Magistrate's office**

|    |  |      |        |
|----|--|------|--------|
| 12 | Standby Generator  | No   | 16.00  |
| 13 | UPS  | No   | 16.00  |
| 14 | Access Control (3 points x 51 units)   | No   | 153.00 |
| 15 | Lift Installation  | No   | 3.00   |
| 16 | Intruder Alarm   | No   | 2.00   |
| 17 | Fire & Evacuation Alarm  | No   | 2.00   |
| 18 | Server Room 1 Gas suppression  | No   | 2.00   |
| 19 | Server Room 2 Gas suppression  | No   | 2.00   |
| 20 | CCTV system duplication & fault monitoring   | Item | 1      |
| 21 | Allow for software licences for a period of 3 years from date of final completion. | Item | 1      |

**Carried to Collection**

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 ELECTRONIC INSTALLATION  
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 BUILDING MANAGEMENT SYSTEM  
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BUILDING MANAGEMENT SYSTEM

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BUILDING MANAGEMENT SYSTEM

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Section No. 6

ELECTRONIC INSTALLATION

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| 5       | COURT RECORDING TECHNOLOGY            | 325     |        |
| 6       | TELEPHONE, DATA & VOIP PABX SYSTEM    | 326     |        |
| 7       | BUILDING MANAGEMENT SYSTEM            | 330     |        |

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 ELECTRONIC INSTALLATION  
**Keimoes Magistrate's office**

# **SECTION 7**

# **MECHANICAL INSTALLATION**

| Item No  | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><b><u>SECTION NO. 7</u></b></p>   |          |      |        |
| <p><b><u>MECHANICAL INSTALLATION</u></b></p>   |          |      |        |
| <p><b><u>BILL NO. 1</u></b></p>  |          |      |        |
| <p><b><u>HVAC INSTALLATION</u></b></p>   |          |      |        |
| <p><b><u>SUPPLEMENTARY PREAMBLES</u></b></p>   |          |      |        |
| <p><b>NOTE:</b></p>  |          |      |        |
| <p>All installations shall be complete in all respects and the contractor shall allow for the installation and successful operation of the complete installation, irrespective of whether every separate item is listed in the Bills of Quantities or not and when it would be logical and reasonable that such items automatically form part of a larger part of the works and is necessary to satisfy the acceptance criteria and to facilitate a complete working system.</p> |          |      |        |
| <p>All items as listed in the Bills of Quantities shall include all other associated features/accessories/requirements as described in the specification.</p>  |          |      |        |
| <p>The tenderer must familiarise himself with the specification and drawing/s and ensure that tender prices allow for full compliance. It will be assumed that the Tenderer complies with all tender documentation.</p>  |          |      |        |
| <p><u>Specifications, drawings, etc</u></p>  |          |      |        |
| <p>Tenderers are referred to the specification and drawings accompanying these bills of quantities for the mechanical work, for the full descriptions of the following items which are to be read and priced in conjunction with the said specification and drawings</p>   |          |      |        |
| <p><u>Dampers</u></p>  |          |      |        |
| <p>Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts</p>   |          |      |        |
| <p><b>Carried to Collection</b></p>  |          |      |        |
| <p>Section No. 7<br/>           MECHANICAL INSTALLATION<br/>           Bill No. 1<br/>           AIR-CONDITIONING INSTALLATION<br/> <b>Keimoes Magistrate's office</b></p>   |          |      | R      |

Air diffusion

Descriptions of air terminals, grilles, louvres and the like shall be deemed to include necks, frames, supports and flexible connections

Fans

Descriptions of fan assemblies shall be deemed to include supports from the structure, flexible or other connections to ductwork, vibration isolation mountings and airtight inspection doors

Sound attenuators

Descriptions of sound attenuators shall be deemed to include flanged or flexible connections to ducts and supports from the structure

Fan coil units, fan air terminals and fan heaters

Descriptions of fan coil units, fan air terminals and fan heaters shall be deemed to include connection points for water, air and electrical supply, for air grilles, dust trays, condensate trays and vibration isolation mountings. Flexible ducts, flexible hose and connecting cables for connecting these units to each other or to water pipe, and electrical supply are separately measured

Major equipment

Descriptions of major equipment such as chillers, air handling units and the like shall be deemed to include connections to water, air and electrical supply and/or discharge points, supports, bearers, vibration insulation mountings, filters, insulation, inspection ladders and gangways, access doors and panels and painting etc as specified

**Carried to Collection**

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MECHANICAL INSTALLATION  
Bill No. 1  
AIR-CONDITIONING INSTALLATION  
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Piping

Pipe diameters are nominal internal unless otherwise stated

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

Fixing of pipes

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

Pump sets

Descriptions of pumps shall be deemed to include connections to water and electrical supply and/or discharge points, vibration insulation mountings, insulation, drip trays with outlets, pressure gauges, etc

Valves

Descriptions of valves shall be deemed to include flanged or screwed connections to pipes, reducers, supports, etc

Insulation

Descriptions of insulation shall be deemed to include priming the pipes with zinc chromate primer before the insulation is applied, painting the insulation when completed and applying vapour barrier where specified

**Carried to Collection**

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MECHANICAL INSTALLATION  
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**INSULATED DUCTWORK:**

Ducting systems shall be complete with all required fittings, accessories and ancillaries to ensure a complete and fully functional system and in accordance with the specification

Insulated ducting runs, inclusive of tap-offs and spigots for duct branches:

|   |          |   |       |
|---|----------|---|-------|
| 1 | 225x250  | m | 8.00  |
| 2 | 300x250  | m | 12.00 |
| 3 | 400x250  | m | 4.00  |
| 4 | 450x250  | m | 4.00  |
| 5 | 1200x232 | m | 4.00  |
| 6 | ø200     | m | 18.00 |

Insulated bends:

|   |      |    |      |
|---|------|----|------|
| 7 | Ø200 | No | 4.00 |
|---|------|----|------|

Insulated transformations:

|    |                  |    |      |
|----|------------------|----|------|
| 8  | 300x250-225x250  | No | 2.00 |
| 9  | 300x250-ø200     | No | 2.00 |
| 10 | 400x250-300x250  | No | 2.00 |
| 11 | 450x250-300x250  | No | 2.00 |
| 12 | 1162x216-400x250 | No | 2.00 |
| 13 | 1162x216-450x250 | No | 2.00 |

Insulated stop ends:

|    |         |    |      |
|----|---------|----|------|
| 14 | 225x250 | No | 2.00 |
|----|---------|----|------|

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Section No. 7  
 MECHANICAL INSTALLATION  
 Bill No. 1  
 AIR-CONDITIONING INSTALLATION  
**Keimoes Magistrate's office**

|    |   |    |       |
|----|---|----|-------|
|    | <u>Insulated flexible ducting:</u>  |    |       |
| 15 | Ø200  | m  | 12.00 |
|    | <u>Insulated balancing dampers</u>  |    |       |
| 16 | Butterfly type damper to suit duct size Ø200mm  | No | 18.00 |
|    | <b><u>UN-INSULATED DUCTWORK:</u></b>  |    |       |
|    | Ducting systems shall be complete with all required fittings, accessories and ancillaries to ensure a complete and fully functional system. |    |       |
|    | <u>Un-insulated ducting runs, inclusive of tap-offs and spigots for duct branches:</u>  |    |       |
| 17 | 200x200   | m  | 30.00 |
| 18 | 200x225   | m  | 6.00  |
| 19 | 250x200   | m  | 20.00 |
| 20 | 300x225   | m  | 6.00  |
| 21 | 300x250   | m  | 15.00 |
| 22 | 300x300   | m  | 12.00 |
| 23 | 325x300   | m  | 11.00 |
| 24 | 350x600   | m  | 4.00  |
| 25 | 375x300   | m  | 22.00 |
| 26 | 400x300   | m  | 16.00 |
| 27 | 450x300   | m  | 7.00  |
| 28 | 525x300   | m  | 7.00  |
| 29 | 550x300   | m  | 6.00  |
| 30 | 575x300   | m  | 5.00  |
| 31 | 600x300   | m  | 5.00  |

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|    |                            |    |        |
|----|----------------------------|----|--------|
| 32 | 600x350                    | m  | 24.00  |
| 33 | 600x400                    | m  | 13.00  |
| 34 | 600x600                    | m  | 3.00   |
| 35 | 650x400                    | m  | 3.00   |
| 36 | 1200x1200                  | m  | 2.00   |
| 37 | ø150                       | m  | 150.00 |
| 38 | ø175                       | m  | 5.00   |
| 39 | ø200                       | m  | 70.00  |
| 40 | ø225                       | m  | 5.00   |
| 41 | ø250                       | m  | 35.00  |
| 42 | ø315                       | m  | 6.00   |
| 43 | ø350                       | m  | 26.00  |
| 44 | ø400                       | m  | 2.00   |
| 45 | ø710                       | m  | 3.00   |
|    | <u>Un-insulated bends:</u> |    |        |
| 46 | 200x225-200x225            | No | 2.00   |
| 47 | 300x300-300x300            | No | 2.00   |
| 48 | 350x600-350x600            | No | 3.00   |
| 49 | 375x300-375x300            | No | 4.00   |
| 50 | 400x300-400x300            | No | 3.00   |
| 51 | 600x350-600x350            | No | 5.00   |
| 52 | 600x400-600x400            | No | 2.00   |
| 53 | ø150-ø150                  | No | 95.00  |

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|---------------------------------------|---|----|-------|
| 54                                    | ø175-ø175   | No | 3.00  |
| 55                                    | ø200-ø200   | No | 20.00 |
| 56                                    | ø250-ø250   | No | 12.00 |
| 57                                    | ø315-ø315   | No | 4.00  |
| 58                                    | ø350-ø350   | No | 10.00 |
| <u>Un-insulated balancing dampers</u> |   |    |       |
| 59                                    | Butterfly type damper to suit duct size Ø150mm                  | No | 48.00 |
| 60                                    | Butterfly type damper to suit duct size Ø175mm                  | No | 1.00  |
| 61                                    | Butterfly type damper to suit duct size Ø200mm                  | No | 15.00 |
| 62                                    | Butterfly type damper to suit duct size Ø250mm                  | No | 5.00  |
| 63                                    | Opposed blade type balancing damper to suit duct size 200x200mm | No | 2.00  |
| 64                                    | Opposed blade type balancing damper to suit duct size 200x225mm | No | 2.00  |
| 65                                    | Opposed blade type balancing damper to suit duct size 250x200mm | No | 2.00  |
| 66                                    | Opposed blade type balancing damper to suit duct size 300x225mm | No | 2.00  |
| 67                                    | Opposed blade type balancing damper to suit duct size 300x250mm | No | 2.00  |
| 68                                    | Opposed blade type balancing damper to suit duct size 525x300mm | No | 1.00  |
| 69                                    | Opposed blade type balancing damper to suit duct size 600x300mm | No | 1.00  |
| 70                                    | Opposed blade type balancing damper to suit duct size 600x400mm | No | 1.00  |
| 71                                    | Non return damper to suit duct size Ø225mm                      | No | 1.00  |

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|--------------------------------------|--|----|-------|
| 72                                   | Non return damper to suit duct size Ø200mm                       | No | 1.00  |
| 73                                   | Fusible link rectangular fire damper to suit duct size 300x225mm | No | 1.00  |
| 74                                   | Fusible link rectangular fire damper to suit duct size 300x250mm | No | 1.00  |
| 75                                   | Fusible link rectangular fire damper to suit duct size 375x300mm | No | 2.00  |
| 76                                   | Fusible link rectangular fire damper to suit duct size 400x300mm | No | 3.00  |
| 77                                   | Fusible link rectangular fire damper to suit duct size 525x300mm | No | 2.00  |
| 78                                   | Fusible link rectangular fire damper to suit duct size 550x300mm | No | 2.00  |
| 79                                   | Fusible link rectangular fire damper to suit duct size 600x350mm | No | 4.00  |
| 80                                   | Fusible link rectangular fire damper to suit duct size 650x400mm | No | 2.00  |
| 81                                   | Fusible link round fire damper to suit duct size Ø150mm          | No | 20.00 |
| 82                                   | Fusible link round fire damper to suit duct size Ø175mm          | No | 2.00  |
| 83                                   | Fusible link round fire damper to suit duct size Ø200mm          | No | 12.00 |
| 84                                   | Fusible link round fire damper to suit duct size Ø250mm          | No | 6.00  |
| 85                                   | Fusible link round fire damper to suit duct size Ø350mm          | No | 2.00  |
| <u>Un-insulated transformations:</u> |  |    |       |
| 86                                   | 200x200-ø150   | No | 2.00  |
| 87                                   | 200x200-ø200   | No | 1.00  |
| 88                                   | 200x225-ø150   | No | 1.00  |
| 89                                   | 250x200-ø150   | No | 1.00  |

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|-----|-----------------|----|-------|
| 90  | 300x225-ø150    | No | 1.00  |
| 91  | 300x250-ø200    | No | 1.00  |
| 92  | 300x300-ø250    | No | 1.00  |
| 93  | 400x400-ø250    | No | 4.00  |
| 94  | 450x300-ø150    | No | 1.00  |
| 95  | 600x600-ø350    | No | 1.00  |
| 96  | 1200x1200-ø710  | No | 2.00  |
| 97  | ø710-650x400    | No | 2.00  |
| 98  | 300x250-200x200 | No | 1.00  |
| 99  | 300x300-300x250 | No | 1.00  |
| 100 | 325x300-300x300 | No | 1.00  |
| 101 | 350x600-600x350 | No | 1.00  |
| 102 | 375x300-325x300 | No | 1.00  |
| 103 | 400x300-375x300 | No | 1.00  |
| 104 | 525x300-450x300 | No | 1.00  |
| 105 | 550x300-200x200 | No | 1.00  |
| 106 | 575x300-550x300 | No | 1.00  |
| 107 | 600x300-575x300 | No | 1.00  |
| 108 | 600x350-300x250 | No | 1.00  |
| 109 | 600x400-400x300 | No | 1.00  |
| 110 | 650x400-300x250 | No | 1.00  |
| 111 | 650x400-600x350 | No | 1.00  |
| 112 | ø200-ø150       | No | 13.00 |

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|---------------------------------------|----------------------------------|----|-------|
| 113                                   | ø200-ø175                        | No | 1.00  |
| 114                                   | ø250-ø150                        | No | 1.00  |
| 115                                   | ø250-ø200                        | No | 3.00  |
| 116                                   | ø315-ø150                        | No | 1.00  |
| 117                                   | ø350-ø250                        | No | 2.00  |
| 118                                   | ø400-ø350                        | No | 4.00  |
| <u>Un-insulated tee's:</u>            |                                  |    |       |
| 119                                   | 650x400-600x400-650x400          | No | 1.00  |
| <u>Un-insulated stop ends:</u>        |                                  |    |       |
| 120                                   | 200ø                             | No | 12.00 |
| 121                                   | 225ø                             | No | 2.00  |
| 122                                   | 250ø                             | No | 5.00  |
| <u>Un-insulated flexible ducting:</u> |                                  |    |       |
| 123                                   | Ø150                             | m  | 20.00 |
| 124                                   | Ø200                             | m  | 8.00  |
| 125                                   | Ø250                             | m  | 4.00  |
| 126                                   | Ø350                             | m  | 4.00  |
| <u>Un-insulated fire dampers</u>      |                                  |    |       |
| 127                                   | To suit Ø150 circular duct       | No | 20.00 |
| 128                                   | To suit Ø200 circular duct       | No | 12.00 |
| 129                                   | To suit Ø250 circular duct       | No | 4.00  |
| 130                                   | To suit Ø350 circular duct       | No | 4.00  |
| 131                                   | To suit 600x350 rectangular duct | No | 2.00  |

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|     |                                  |    |      |
|-----|----------------------------------|----|------|
| 132 | To suit 200x200 rectangular duct | No | 1.00 |
| 133 | To suit 250x200 rectangular duct | No | 2.00 |
| 134 | To suit 550x300 rectangular duct | No | 1.00 |
| 135 | To suit 600x400 rectangular duct | No | 2.00 |
| 136 | To suit 400x300 rectangular duct | No | 3.00 |

**AIR TERMINALS:**

Supply and install all air terminals in accordance with the specification and drawings, inclusive of all ancillaries, clips etc. to form a complete and working installation. Allow for coordination with other trades as well as the design team, particularly regarding final location and finishes. Allow for builders work and wooden frames for the installation of wall-mounted grilles/louvres/diffusers as relevant.

Supply diffusers - see also equipment schedules on drawing:

|     |  |    |       |
|-----|--|----|-------|
| 137 | SAD1: 600x600, Rectangular with round plate disc | No | 18.00 |
|-----|--|----|-------|

Supply grilles - see also equipment schedules on drawing:

|     |                                      |    |       |
|-----|--------------------------------------|----|-------|
| 138 | SAG1: 200x200, Adjustable blade type | No | 45.00 |
| 139 | SAG2: 600x600, Adjustable blade type | No | 2.00  |

Return air grilles - see also equipment schedules on drawing and include filter media and other ancillaries:

|     |   |    |      |
|-----|---|----|------|
| 140 | RAG1: 1200x600, Fixed blade and hinged type, complete with filter media, plenum box and other ancillaries as described. | No | 4.00 |
|-----|---|----|------|

Extract air disc valves - see also equipment schedules on drawing:

|     |                                  |    |       |
|-----|----------------------------------|----|-------|
| 141 | DV1: 150dia neck, 200dia nominal | No | 21.00 |
| 142 | DV2: 200dia neck, 245dia nominal | No | 2.00  |

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Door grilles - see also equipment schedules on drawing:

|     |              |    |       |
|-----|--------------|----|-------|
| 143 | DG1: 300x300 | No | 8.00  |
| 144 | DG2: 400x400 | No | 18.00 |
| 145 | DG3: 500x500 | No | 4.00  |

Weather louvres - see also equipment schedules on drawing and include all ancillaries:

|     |                |    |      |
|-----|----------------|----|------|
| 146 | WL1: 1200x1200 | No | 1.00 |
| 147 | WL2: 1200x1200 | No | 1.00 |
| 148 | WL3: 400x400   | No | 1.00 |
| 149 | WL4: 250x250   | No | 1.00 |

**FANS:**

Supply and install all fans, inclusive of all accessories and sound attenuators to form a complete and working installation. Allow for electrical works and controls items associated with the fan installation. All in accordance with the specification/s and drawing/s.

|     |  |    |      |
|-----|--|----|------|
| 150 | EF1: 489L/s at 208Pa, Axial flow fan           | No | 1.00 |
| 151 | EF2: 246L/s at 150Pa, In-line duct mounted fan | No | 1.00 |
| 152 | EF3: 82L/s at 150Pa, In-line duct mounted fan  | No | 1.00 |
| 153 | EF4: 50/s at 35Pa, Wall mounted fan            | No | 1.00 |
| 154 | EF5: 52L/s at 35Pa, Wall mounted fan           | No | 1.00 |
| 155 | FA1: 1415L/s at 308Pa, Axial flow fan          | No | 1.00 |
| 156 | FA2: 1640L/s at 304Pa, Axial flow fan          | No | 1.00 |

**FILTERS / FILTER BANKS**

Supply and install filter banks as described and in accordance with the specification/s and drawing/s.

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|   |   |    |      |
|---|---|----|------|
| 157   | FB1: 1200x1200x50mm   | No | 1.00 |
| 158   | FB1: 1200x1200x50mm   | No | 1.00 |
| <b><u>VARIABLE REFRIGERANT AIR CONDITIONING (VRF/VRV)</u></b>   |   |    |      |
| <u>Supply and install outdoor unit/s complete and as per specification and drawing/s, inclusive of any steelwork supports and refrigerant piping tray.</u>  |   |    |      |
| 159   | CU1,2&3: VRF heat recovery outdoor condensing units comprising of two modules | No | 3.00 |
| <u>Supply and install indoor units complete with all accessories and intake/discharge air plenums to ensure a complete functioning system. Allow for acoustic lining if required. All as per specification and drawing/s. Refer to equipment schedules on drawing for duties and further details.</u> |   |    |      |
| 160   | AC2: Four-way ceiling cassette type unit                                      | No | 1.00 |
| 161   | AC3: One-way ceiling cassette type unit                                       | No | 1.00 |
| 162   | AC4: One-way ceiling cassette type unit                                       | No | 1.00 |
| 163   | AC5: One-way ceiling cassette type unit                                       | No | 1.00 |
| 164   | AC6: One-way ceiling cassette type unit                                       | No | 1.00 |
| 165   | AC7: One-way ceiling cassette type unit                                       | No | 1.00 |
| 166   | AC8: One-way ceiling cassette type unit                                       | No | 1.00 |
| 167   | AC10: Four-way ceiling cassette type unit                                     | No | 1.00 |
| 168   | AC11: Four-way ceiling cassette type unit                                     | No | 1.00 |
| 169   | AC12: Four-way ceiling cassette type unit                                     | No | 1.00 |
| 170   | AC13: Four-way ceiling cassette type unit                                     | No | 1.00 |
| 171   | AC14: Four-way ceiling cassette type unit                                     | No | 1.00 |
| 172   | AC15: One-way ceiling cassette type unit                                      | No | 1.00 |

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|-----|---|----|------|
| 173 | AC16: One-way ceiling cassette type unit  | No | 1.00 |
| 174 | AC17: One-way ceiling cassette type unit  | No | 1.00 |
| 175 | AC18: One-way ceiling cassette type unit  | No | 1.00 |
| 176 | AC19: One-way ceiling cassette type unit  | No | 1.00 |
| 177 | AC20: One-way ceiling cassette type unit  | No | 1.00 |
| 178 | AC21: One-way ceiling cassette type unit  | No | 1.00 |
| 179 | AC22: One-way ceiling cassette type unit  | No | 1.00 |
| 180 | AC23: One-way ceiling cassette type unit  | No | 1.00 |
| 181 | AC26: One-way ceiling cassette type unit  | No | 1.00 |
| 182 | AC27: One-way ceiling cassette type unit  | No | 1.00 |
| 183 | AC28: One-way ceiling cassette type unit  | No | 1.00 |
| 184 | AC29: One-way ceiling cassette type unit  | No | 1.00 |
| 185 | AC30: Four-way ceiling cassette type unit | No | 1.00 |
| 186 | AC31: One-way ceiling cassette type unit  | No | 1.00 |
| 187 | AC32: Four-way ceiling cassette type unit | No | 1.00 |
| 188 | AC33: One-way ceiling cassette type unit  | No | 1.00 |
| 189 | AC35: One-way ceiling cassette type unit  | No | 1.00 |
| 190 | AC36: Four-way ceiling cassette type unit | No | 1.00 |
| 191 | AC37: One-way ceiling cassette type unit  | No | 1.00 |
| 192 | AC38: One-way ceiling cassette type unit  | No | 1.00 |
| 193 | AC39: One-way ceiling cassette type unit  | No | 1.00 |
| 194 | AC40: Four-way ceiling cassette type unit | No | 1.00 |
| 195 | AC41: One-way ceiling cassette type unit  | No | 1.00 |

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|---|---|----|------|-----|
| 196   | AC42: Four-way ceiling cassette type unit   | No | 1.00 |     |
| 197   | AC43: One-way ceiling cassette type unit  | No | 2.00 |     |
| 198   | AC44: One-way ceiling cassette type unit  | No | 1.00 |     |
| 199   | AC45: One-way ceiling cassette type unit  | No | 1.00 |     |
| 200   | AC46: One-way ceiling cassette type unit  | No | 1.00 |     |
| 201   | AC47: One-way ceiling cassette type unit  | No | 1.00 |     |
| 202   | AC48: One-way ceiling cassette type unit  | No | 1.00 |     |
| 203   | AC49: One-way ceiling cassette type unit  | No | 1.00 |     |
| 204   | AC50: Four-way ceiling cassette type unit   | No | 1.00 |     |
| 205   | AC51: One-way ceiling cassette type unit  | No | 1.00 |     |
| 206   | AC52: One-way ceiling cassette type unit  | No | 1.00 |     |
| 207   | AC53: One-way ceiling cassette type unit  | No | 1.00 |     |
| 208   | AC54: One-way ceiling cassette type unit  | No | 1.00 |     |
| 209   | Supply and install refrigerant piping as well as branch/distribution boxes complete with all fittings, insulation, bracketing, trays and all other accessories to ensure a complete functioning system. All as per specification and drawing/s. |    |      | SUM |
| 210   | Supply and install controllers, controls wiring, sensors and all other items required to ensure a complete controls system and to ensure a fully functional VRV system. All as per specification and drawing/s.                                 |    |      | SUM |
| <b><u>LOCAL SPLIT AIR CONDITIONING SYSTEMS</u></b>  |   |    |      |     |
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|     |   |    |      |     |
|-----|---|----|------|-----|
|     | <u>Supply and install split air conditioning units in server rooms. Units shall be of the duty/standby arrangement with rotation/back-up facility and associated automatic controls. Price to include for complete installation, inclusive of indoor units, outdoor units, refrigerant secondary drip tray, wired controllers, piping, etc.</u> |    |      |     |
| 211 | AC1A & B: Fresh air type ceiling concealed (hide-away) unit   | No | 2.00 |     |
| 212 | AC9A & B: ceiling suspended (under-ceiling) type unit   | No | 2.00 |     |
| 213 | AC21A & B: High wall split type unit  | No | 2.00 |     |
| 214 | AC24: High wall split type unit   | No | 1.00 |     |
| 215 | AC25A & B: Fresh air type ceiling concealed (hide-away) unit  | No | 2.00 |     |
| 216 | AC34A & B: ceiling suspended (under-ceiling) type unit  | No | 2.00 |     |
|     | <b><u>CONDENSATE DRAINAGE</u></b>   |    |      |     |
| 217 | Supply and install condensate drainage system inclusive of all piping, rodding eyes, fittings, traps and all other ancillaries to form a complete working system and as described in specification and on drawing/s.  |    |      | SUM |
|     | <b><u>GAS FIRE SUPPRESSION EXTRACTION SYSTEM</u></b>  |    |      |     |
|     | <u>Allow for gas suppression extraction system including motorised dampers and relays to shut off fans in the following rooms:</u>  |    |      |     |
| 218 | Ground Floor Server Room  |    |      | SUM |
| 219 | Ground Floor Strong Room  |    |      | SUM |
| 220 | Ground Floor Secured Record Room  |    |      | SUM |
| 221 | Ground Floor Archive Room   |    |      | SUM |
| 222 | Ground Floor Security Server Room   |    |      | SUM |
| 223 | First Floor Server Room   |    |      | SUM |
| 224 | First Floor Library   |    |      | SUM |
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|     |  |      |     |
|-----|--|------|-----|
| 225 | First Floor Archive Room   |      | SUM |
| 226 | First Floor Evidence Room  |      | SUM |
|     | <b><u>ELECTRICAL WORKS</u></b>   |      |     |
| 227 | Electrical works associated with the HVAC installation. Supply and install complete and fully functional. In accordance with specification and drawing/s.  |      | SUM |
|     | <b><u>CONTROLS</u></b>   |      |     |
| 228 | Design, supply and install all controls as specified and allow for BMS interface in all HVAC equipment (BMS system by electrical contractor)   |      | SUM |
|     | <b><u>TESTING AND COMMISSIONING OF</u></b>   |      |     |
| 229 | Complete HVAC system   |      | SUM |
|     | <b><u>ENGINEERING CONDITIONS AND GENERAL ITEMS</u></b>   |      |     |
| 230 | Guarantee and maintenance of complete HVAC Installation for 12 months  | Item |     |
| 231 | Production and submittal of builders work drawings, installation/working drawings, shop drawings, all as specified   | Item |     |
| 232 | Operating & Maintenance Manuals, complete and to the satisfaction of the engineer and compliant with the specification   | Item |     |
| 233 | As Built Drawings, commented and approved, all as per the specification  | Item |     |
| 234 | Training of Client Staff and Operators   | Item |     |
| 235 | Samples of air terminals and other materials / equipment, details of plant and equipment, method statements and any certification that has to be presented for evaluation and approval as per the specification. | Item |     |
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236 Compliance with the Occupational Health and Safety Act, 1993 and Construction Regulations, 2003. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications.

Item

237 Full compliance with all preliminary and general aspects of the conditions of contract not already priced elsewhere and any other items not specifically mentioned but deemed necessary by the tenderer to enable a complete and successfully working installation that satisfies the functional requirements as per the design intent. Specify/Qualify as relevant:

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AIR-CONDITIONING INSTALLATION

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| Item No | <b><u>SECTION NO. 7</u></b>  | Quantity | Rate | Amount |
|---------|--|----------|------|--------|
|         | <b><u>BILL NO. 2</u></b>   |          |      |        |
|         | <b><u>FIRE PROTECTION INSTALLATION</u></b>   |          |      |        |
|         | <b>NOTE:</b>   |          |      |        |
|         | <p>All installations shall be complete in all respects and the contractor shall allow for the installation and successful operation of the complete installation, irrespective of whether every separate item is listed in the BOQ or not and when it would be logical and reasonable that such items automatically form part of a larger part of the works and is necessary to satisfy the acceptance criteria and to facilitate a complete working system. All items as listed in the BOQ shall include all other associated features/accessories/requirements as described in the specification. The tenderer must familiarise himself with the specification and drawing/s and ensure that tender prices allow for full compliance. If no deviations or qualifications are listed and received, it will be assumed that the Tenderer complies with all tender documentation.</p> |          |      |        |
|         | <p>RATES SHALL INCLUDE FOR THE SUPPLY, INSTALLATION, TESTING AND COMMISSIONING OF ALL SYSTEMS TO FORM A COMPLETE OPERATIONAL INSTALLATION, INCLUSIVE OF ALL COMPONENTS AND ANCILLARIES, ALL AS DESCRIBED IN THE SPECIFICATION, DRAWINGS AND ALL RELEVANT CONTRACT DOCUMENTATION.</p>   |          |      |        |
|         | <b><u>FIRE WATER STORAGE TANKS</u></b>   |          |      |        |
|         | <p><u>Fire water sectional steel tank, complete with all fittings, float valve, vortex inhibitor, ancillaries and accessories. All as described in the specification and equipment schedules and drawings.</u></p>   |          |      |        |
| 1       | 82000L (usable volume) fire water storage tank (4.88m X 7.32m X 2.44m High)  | No       | 1    |        |
|         | <b><u>BOOSTER PUMPS</u></b>  |          |      |        |
|         | <b>Carried to Collection</b>   |          |      | R      |
|         | <p>Section No. 7<br/>           MECHANICAL INSTALLATION<br/>           Bill No. 2<br/>           FIRE PROTECTION INSTALLATION<br/> <b>Keimoes Magistrate's office</b></p>  |          |      |        |

|    |   |    |       |
|----|---|----|-------|
|    | <u>Supply and install booster pumps as specified</u>  |    |       |
| 2  | 21 L/s @ 400kPa fire booster pumps c/w control panel.   | No | 2.00  |
|    | <b><u>EXPANSION TANK</u></b>  |    |       |
|    | <u>Supply and install expansion tank as specified</u>   |    |       |
| 3  | 240L expansion tank   | No | 1.00  |
|    | <b><u>GALVANISED STEEL PIPING</u></b>   |    |       |
|    | <u>Galvanized steel piping including brackets, hangers, fire collars, installation, etc., all as required for a complete installation as per the specification. All piping to be marked and painted as per the specification.</u> |    |       |
| 4  | 25 mmø  | m  | 40.00 |
| 5  | 32 mmø  | m  | 45.00 |
| 6  | 40 mmø  | m  | 25.00 |
| 7  | 50 mmø  | m  | 40.00 |
| 8  | 80 mmø  | m  | 45.00 |
| 9  | 100 mmø   | m  | 80.00 |
|    | <b><u>GALVANISED STEEL PIPING PIPE FITTINGS</u></b>   |    |       |
|    | <u>Elbows</u>   |    |       |
| 10 | 25 mmø  | No | 24.00 |
| 11 | 32 mmø  | No | 8.00  |
| 12 | 40 mmø  | No | 7.00  |
| 13 | 50 mmø  | No | 4.00  |
| 14 | 80 mmø  | No | 12.00 |
| 15 | 100 mmø   | No | 30.00 |

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| <u>Tees</u>        |                         |    |       |
|--------------------|-------------------------|----|-------|
| 16                 | 25 mmø-25 mmø-25 mmø    | No | 12.00 |
| 17                 | 32 mmø-32 mmø-32 mmø    | No | 6.00  |
| 18                 | 40 mmø-40 mmø-40 mmø    | No | 2.00  |
| 19                 | 50 mmø-50 mmø-50 mmø    | No | 5.00  |
| 20                 | 80 mmø-80 mmø-80 mmø    | No | 3.00  |
| 21                 | 100 mmø-100 mmø-100 mmø | No | 12.00 |
| <u>Transitions</u> |                         |    |       |
| 22                 | 32 mmø-25 mmø           | No | 8.00  |
| 23                 | 40 mmø-25 mmø           | No | 10.00 |
| 24                 | 40 mmø-32 mmø           | No | 4.00  |
| 25                 | 50 mmø-32 mmø           | No | 3.00  |
| 26                 | 50 mmø-40 mmø           | No | 5.00  |
| 27                 | 80 mmø-25 mmø           | No | 2.00  |
| 28                 | 80 mmø-40 mmø           | No | 5.00  |
| 29                 | 80 mmø-50 mmø           | No | 1.00  |
| 30                 | 100 mmø-25 mmø          | No | 3.00  |
| 31                 | 100 mmø-32 mmø          | No | 2.00  |
| 32                 | 100 mmø-50 mmø          | No | 3.00  |
| 33                 | 100 mmø-80 mmø          | No | 12.00 |

**uPVC PIPING UNDERGROUND**

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uPVC piping including brackets, hangers, installation, etc., all as required for a complete installation as per the specification. Exposed piping to be insulated. All piping to be marked as per the specification.

34 80 mmø m 32.00

35 100 mmø m 25.00

**uPVC PIPE FITTINGS**

Elbows

36 80 mmø No 5.00

37 100 mmø No 4.00

Tees

38 80 mmø-80 mmø-80 mmø No 1.00

39 100 mmø-100 mmø-100 mmø No 2.00

40 100 mmø-80 mmø No 4.00

**PIPE ACCESSORIES**

Isolation valves (Lockable type)

41 100 mm Ø No 15.00

Non-return valves (Lockable type)

42 100 mm Ø No 4.00

Float valves

43 100 mm Ø No 2.00

Gauges and other miscellaneous

44 Test/Binder points No 5.00

45 Pressure gauge No 4.00

46 Pressure switch No 2.00

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**FIRE PROTECTION EQUIPMENT/ANCILLARIES**

30m Hose reel, SABS approved, including stop valve, fairlead, aluminium nozzle as per specification

47 30m Hose Reel No 9.00

Fire hydrant SABS approved c/w 30m fire hose and couplings

48 Hydrant with 65mm hose connection complete with concrete block and couplings No 3.00

Fire extinguishers including mounting

49 5kg CO2 fire extinguisher No 1.00

50 4.5kg DCP fire extinguisher No 1.00

51 9kg DCP fire extinguisher No 26.00

**FIRE SIGNAGE**

Fire signage as per specification

52 Signage SUM

**MISCELLANEOUS ITEMS**

Connections to main Civil water supply and piping from below ground, to suit applicable pipe materials.

53 80 mm Ø No 1.00

54 100 mm Ø No 1.00

**SUMP PIT PUMP**

Supply and install booster pumps as specified

55 15 L/s @ 20m Head stainless steel submersible pump with 80 mm Ø discharge No 1.00

**ENGINEERING CONDITIONS AND GENERAL ITEMS**

56 Commissioning and Testing of apparatus Item

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|    |   |      |
|----|---|------|
| 57 | Guarantee and maintenance of complete Fire Protection Installation for 12 months  | Item |
| 58 | Production and submittal of builders work drawings, installation/working drawings, shop drawings, all as specified  | Item |
| 59 | Operating & Maintenance Manuals, complete and to the satisfaction of the engineer and compliant with the specification  | Item |
| 60 | As Built Drawings, commented and approved, all as per the specification   | Item |
| 61 | Training of Client Staff and Operators  | Item |
| 62 | Compliance with the Occupational Health and Safety Act, 1993 and Construction Regulations, 2003. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications. | Item |
| 63 | Full compliance with all preliminary and general aspects of the conditions of contract not already priced elsewhere and any other items not specifically mentioned but deemed necessary by the tenderer to enable a complete and successfully working installation that satisfies the functional requirements as per the design intent. Specify/Qualify as relevant:  | Item |

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Section No. 7

MECHANICAL INSTALLATION

Bill No. 2

FIRE PROTECTION INSTALLATION

**COLLECTION**

Total Brought Forward from Page No.

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No**

**Amount**

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Bill No. 2

FIRE PROTECTION INSTALLATION

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| Item No  | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><b><u>SECTION NO. 7</u></b></p>   |          |      |        |
| <p><b><u>BILL NO. 3</u></b></p>  |          |      |        |
| <p><b><u>AUTOMATIC FIRE SUPPRESSION INSTALLATION:</u></b></p>  |          |      |        |
| <p><b>NOTE:</b></p>  |          |      |        |
| <p>All installations shall be complete in all respects and the contractor shall allow for the installation and successful operation of the complete installation, irrespective of whether every separate item is listed in the BOQ or not and when it would be logical and reasonable that such items automatically form part of a larger part of the works and is necessary to satisfy the acceptance criteria and to facilitate a complete working system. All items as listed in the BOQ shall include all other associated features/accessories/requirements as described in the specification. The tenderer must familiarise himself with the specification and drawing/s and ensure that tender prices allow for full compliance. If no deviations or qualifications are listed and received, it will be assumed that the Tenderer complies with all tender documentation.</p> |          |      |        |
| <p><b><u>AUTOMATIC FIRE SUPPRESSION SYSTEM INSTALLATION:</u></b></p>   |          |      |        |
| <p><b><u>Design, supply, install and commission FM 200 fire suppression systems as specified for the following areas:</u></b></p>  |          |      |        |
| <p>Each system shall include a control panel, flashing evacuation signage, sounder beacons, fire bells, optical and ionisation smoke detectors, air-conditioning shutdown interface, cylinders filled with gas to cater for room volumes, room integrity test and all other items needed for a complete installation.</p>  |          |      |        |
| <p><b><u>Ground floor server room</u></b></p>  |          |      |        |
| <p><u>Supply, install and commission the following:</u></p>  |          |      |        |
| <p><b>Carried to Collection</b></p>  |          |      |        |
| <p>Section No. 7<br/>MECHANICAL INSTALLATION<br/>Bill No. 3<br/>AUTOMATIC FIRE SUPPRESSION INSTALLATION<br/><b>Keimoes Magistrate's office</b></p>   |          | R    |        |

|   |   |    |        |
|---|---|----|--------|
| <u>Complete Cylinder Assembly</u>   |   |    |        |
| 1   | 10kg capacity modular cylinder including FM200 gas                          | No | 1.00   |
| 2   | Warning door sign   | No | 1.00   |
| 3   | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators | No | 1.00   |
| 4   | Fire Extinguishing Panel with Batteries                                     | No | 1.00   |
| 5   | Optical Smoke Detectors Including Bases                                     | No | 2.00   |
| 6   | Remote LED's for Ceiling Void Detectors                                     | No | 2.00   |
| 7   | Sounder Beacons   | No | 2.00   |
| 8   | Evacuation Sign   | No | 3.00   |
| 9   | Fire Alarm Bells  | No | 2.00   |
| 10  | Fire Alarm Cable  | m  | 200.00 |
| 11  | Addressable Interface Unit for Fire/Fault Monitoring                        | No | 1.00   |
| 12  | Extinguishant Release Test & Interface                                      | No | 1.00   |
| 13  | Fresh Air Shutdown Interface  | No | 1.00   |
| 14  | Galvanised Conduit and Accessories  | m  | 200.00 |
| 15  | Installation, Commissioning & Certification                                 |    | SUM    |
| <b><u>Ground floor cash hall strong room</u></b>  |   |    |        |
| <u>Supply, install and commission the following:</u>  |   |    |        |
| <u>Complete Cylinder Assembly</u>   |   |    |        |
| 16  | 19.50kg capacity modular cylinder including FM200 gas                       | No | 1.00   |
| 17  | Warning door sign   | No | 1.00   |
| 18  | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators | No | 1.00   |
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|    |  |    |        |     |
|----|--|----|--------|-----|
| 19 | Fire Extinguishing Panel with Batteries              | No | 1.00   |     |
| 20 | Optical Smoke Detectors Including Bases              | No | 2.00   |     |
| 21 | Remote LED's for Ceiling Void Detectors              | No | 2.00   |     |
| 22 | Sounder Beacons                                      | No | 2.00   |     |
| 23 | Evacuation Sign                                      | No | 3.00   |     |
| 24 | Fire Alarm Bells                                     | No | 2.00   |     |
| 25 | Fire Alarm Cable                                     | m  | 200.00 |     |
| 26 | Addressable Interface Unit for Fire/Fault Monitoring | No | 1.00   |     |
| 27 | Extinguishant Release Test & Interface               | No | 1.00   |     |
| 28 | Fresh Air Shutdown Interface                         | No | 1.00   |     |
| 29 | Galvanised Conduit and Accessories                   | m  | 200.00 |     |
| 30 | Installation, Commissioning & Certification          |    |        | SUM |

**Ground floor secured record room**

Supply, install and commission the following:

Complete Cylinder Assembly

|    |   |    |      |  |
|----|---|----|------|--|
| 31 | 11kg capacity modular cylinder including FM200 gas                          | No | 1.00 |  |
| 32 | Warning door sign   | No | 1.00 |  |
| 33 | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators | No | 1.00 |  |
| 34 | Fire Extinguishing Panel with Batteries                                     | No | 1.00 |  |
| 35 | Optical Smoke Detectors Including Bases                                     | No | 2.00 |  |
| 36 | Remote LED's for Ceiling Void Detectors                                     | No | 2.00 |  |
| 37 | Sounder Beacons   | No | 2.00 |  |
| 38 | Evacuation Sign   | No | 3.00 |  |

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|   |   |    |        |     |
|---|---|----|--------|-----|
| 39  | Fire Alarm Bells  | No | 2.00   |     |
| 40  | Fire Alarm Cable  | m  | 200.00 |     |
| 41  | Addressable Interface Unit for Fire/Fault Monitoring                        | No | 1.00   |     |
| 42  | Extinguishant Release Test & Interface                                      | No | 1.00   |     |
| 43  | Fresh Air Shutdown Interface  | No | 1.00   |     |
| 44  | Galvanised Conduit and Accessories  | m  | 200.00 |     |
| 45  | Installation, Commissioning & Certification                                 |    |        | SUM |
| <b><u>Ground floor cash hall archive room</u></b>   |   |    |        |     |
| <u>Supply, install and commission the following:</u>  |   |    |        |     |
| <u>Complete Cylinder Assembly</u>   |   |    |        |     |
| 46  | 14.50kg capacity modular cylinder including FM200 gas                       | No | 1.00   |     |
| 47  | Warning door sign   | No | 1.00   |     |
| 48  | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators | No | 1.00   |     |
| 49  | Fire Extinguishing Panel with Batteries                                     | No | 1.00   |     |
| 50  | Optical Smoke Detectors Including Bases                                     | No | 2.00   |     |
| 51  | Remote LED's for Ceiling Void Detectors                                     | No | 2.00   |     |
| 52  | Sounder Beacons   | No | 2.00   |     |
| 53  | Evacuation Sign   | No | 3.00   |     |
| 54  | Fire Alarm Bells  | No | 2.00   |     |
| 55  | Fire Alarm Cable  | m  | 200.00 |     |
| 56  | Addressable Interface Unit for Fire/Fault Monitoring                        | No | 1.00   |     |
| 57  | Extinguishant Release Test & Interface                                      | No | 1.00   |     |
| 58  | Fresh Air Shutdown Interface  | No | 1.00   |     |
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|   |   |    |        |     |
|---|---|----|--------|-----|
| 59  | Galvanised Conduit and Accessories  | m  | 200.00 |     |
| 60  | Installation, Commissioning & Certification                                 |    |        | SUM |
| <b><u>Ground floor security server room</u></b>   |   |    |        |     |
| <u>Supply, install and commission the following:</u>  |   |    |        |     |
| <u>Complete Cylinder Assembly</u>   |   |    |        |     |
| 61  | 10kg capacity modular cylinder including FM200 gas                          | No | 1.00   |     |
| 62  | Warning door sign   | No | 1.00   |     |
| 63  | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators | No | 1.00   |     |
| 64  | Fire Extinguishing Panel with Batteries                                     | No | 1.00   |     |
| 65  | Optical Smoke Detectors Including Bases                                     | No | 2.00   |     |
| 66  | Remote LED's for Ceiling Void Detectors                                     | No | 2.00   |     |
| 67  | Sounder Beacons   | No | 2.00   |     |
| 68  | Evacuation Sign   | No | 3.00   |     |
| 69  | Fire Alarm Bells  | No | 2.00   |     |
| 70  | Fire Alarm Cable  | m  | 200.00 |     |
| 71  | Addressable Interface Unit for Fire/Fault Monitoring                        | No | 1.00   |     |
| 72  | Extinguishant Release Test & Interface                                      | No | 1.00   |     |
| 73  | Fresh Air Shutdown Interface  | No | 1.00   |     |
| 74  | Galvanised Conduit and Accessories  | m  | 200.00 |     |
| 75  | Installation, Commissioning & Certification                                 |    |        | SUM |
| <b><u>First floor server room</u></b>   |   |    |        |     |
| <u>Supply, install and commission the following:</u>  |   |    |        |     |
| <b>Carried to Collection</b>  |   |    |        |     |
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|    |   |    |        |     |
|----|---|----|--------|-----|
|    | <u>Complete Cylinder Assembly</u>   |    |        |     |
| 76 | 10kg capacity modular cylinder including FM200 gas  | No | 1.00   |     |
| 77 | Warning door sign   | No | 1.00   |     |
| 78 | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators   | No | 1.00   |     |
| 79 | Fire Extinguishing Panel with Batteries   | No | 1.00   |     |
| 80 | Optical Smoke Detectors Including Bases   | No | 2.00   |     |
| 81 | Remote LED's for Ceiling Void Detectors   | No | 2.00   |     |
| 82 | Sounder Beacons   | No | 2.00   |     |
| 83 | Evacuation Sign   | No | 3.00   |     |
| 84 | Fire Alarm Bells  | No | 2.00   |     |
| 85 | Fire Alarm Cable  | m  | 200.00 |     |
| 86 | Addressable Interface Unit for Fire/Fault Monitoring  | No | 1.00   |     |
| 87 | Extinguishant Release Test & Interface  | No | 1.00   |     |
| 88 | Fresh Air Shutdown Interface  | No | 1.00   |     |
| 89 | Galvanised Conduit and Accessories  | m  | 200.00 |     |
| 90 | Installation, Commissioning & Certification   |    |        | SUM |
|    | <b><u>First floor library</u></b>   |    |        |     |
|    | <u>Supply, install and commission the following:</u>  |    |        |     |
|    | <u>Complete Cylinder Assembly</u>   |    |        |     |
| 91 | 24.50kg capacity modular cylinder including FM200 gas   | No | 1.00   |     |
| 92 | Warning door sign   | No | 1.00   |     |
| 93 | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators   | No | 1.00   |     |
|    | <b>Carried to Collection</b>  |    |        | R   |
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|     |   |    |        |     |
|-----|---|----|--------|-----|
| 94  | Fire Extinguishing Panel with Batteries   | No | 1.00   |     |
| 95  | Optical Smoke Detectors Including Bases   | No | 2.00   |     |
| 96  | Remote LED's for Ceiling Void Detectors   | No | 2.00   |     |
| 97  | Sounder Beacons   | No | 2.00   |     |
| 98  | Evacuation Sign   | No | 3.00   |     |
| 99  | Fire Alarm Bells  | No | 2.00   |     |
| 100 | Fire Alarm Cable  | m  | 200.00 |     |
| 101 | Addressable Interface Unit for Fire/Fault Monitoring  | No | 1.00   |     |
| 102 | Extinguishant Release Test & Interface  | No | 1.00   |     |
| 103 | Fresh Air Shutdown Interface  | No | 1.00   |     |
| 104 | Galvanised Conduit and Accessories  | m  | 200.00 |     |
| 105 | Installation, Commissioning & Certification   |    |        | SUM |
|     | <b><u>First floor archive room</u></b>  |    |        |     |
|     | <u>Supply, install and commission the following:</u>  |    |        |     |
|     | <u>Complete Cylinder Assembly</u>   |    |        |     |
| 106 | 14.50kg capacity modular cylinder including FM200 gas   | No | 1.00   |     |
| 107 | Warning door sign   | No | 1.00   |     |
| 108 | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators   | No | 1.00   |     |
| 109 | Fire Extinguishing Panel with Batteries   | No | 1.00   |     |
| 110 | Optical Smoke Detectors Including Bases   | No | 2.00   |     |
| 111 | Remote LED's for Ceiling Void Detectors   | No | 2.00   |     |
| 112 | Sounder Beacons   | No | 2.00   |     |
| 113 | Evacuation Sign   | No | 3.00   |     |
|     | <b>Carried to Collection</b>  |    |        | R   |
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|---|---|----|--------|-----|
| 114   | Fire Alarm Bells  | No | 2.00   |     |
| 115   | Fire Alarm Cable  | m  | 200.00 |     |
| 116   | Addressable Interface Unit for Fire/Fault Monitoring                        | No | 1.00   |     |
| 117   | Extinguishant Release Test & Interface                                      | No | 1.00   |     |
| 118   | Fresh Air Shutdown Interface  | No | 1.00   |     |
| 119   | Galvanised Conduit and Accessories  | m  | 200.00 |     |
| 120   | Installation, Commissioning & Certification                                 |    |        | SUM |
| <b><u>First floor evidence room</u></b>   |   |    |        |     |
| <u>Supply, install and commission the following:</u>  |   |    |        |     |
| <u>Complete Cylinder Assembly</u>   |   |    |        |     |
| 121   | 10kg capacity modular cylinder including FM200 gas                          | No | 1.00   |     |
| 122   | Warning door sign   | No | 1.00   |     |
| 123   | 10A PSU with 17A/H Batteries and Relay for Discharge Purposes on Detonators | No | 1.00   |     |
| 124   | Fire Extinguishing Panel with Batteries                                     | No | 1.00   |     |
| 125   | Optical Smoke Detectors Including Bases                                     | No | 2.00   |     |
| 126   | Remote LED's for Ceiling Void Detectors                                     | No | 2.00   |     |
| 127   | Sounder Beacons   | No | 2.00   |     |
| 128   | Evacuation Sign   | No | 3.00   |     |
| 129   | Fire Alarm Bells  | No | 2.00   |     |
| 130   | Fire Alarm Cable  | m  | 200.00 |     |
| 131   | Addressable Interface Unit for Fire/Fault Monitoring                        | No | 1.00   |     |
| 132   | Extinguishant Release Test & Interface                                      | No | 1.00   |     |
| 133   | Fresh Air Shutdown Interface  | No | 1.00   |     |
| <b>Carried to Collection</b>  |   |    |        | R   |
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|   |   |   |        |     |
|---|---|---|--------|-----|
| 134   | Galvanised Conduit and Accessories  | m | 200.00 |     |
| 135   | Installation, Commissioning & Certification   |   |        | SUM |
| <b><u>ENGINEERING CONDITIONS AND GENERAL ITEMS</u></b>  |   |   |        |     |
| 136   | Guarantee and maintenance of complete Fire Suppression Installation for 12 months   |   | Item   |     |
| 137   | Production and submittal of builders work drawings, installation/working drawings, shop drawings, all as specified  |   | Item   |     |
| 138   | Operating & Maintenance Manuals, complete and to the satisfaction of the engineer and compliant with the specification  |   | Item   |     |
| 139   | As Built Drawings, commented and approved, all as per the specification   |   | Item   |     |
| 140   | Training of Client Staff and Operators  |   | Item   |     |
| 141   | Compliance with the Occupational Health and Safety Act, 1993 and Construction Regulations, 2003. It is specifically stated that the employer shall prepare a documented health and safety specification for the works and that the employer shall ensure that the contractor has made provision for the cost of health and safety measures during the execution of the works. The contractor shall price opposite this item for compliance with the act and the regulations and the reasonable provisions of the aforementioned health and safety specifications. |   | Item   |     |
| 142   | Full compliance with all preliminary and general aspects of the conditions of contract not already priced elsewhere and any other items not specifically mentioned but deemed necessary by the tenderer to enable a complete and successfully working installation that satisfies the functional requirements as per the design intent. Specify/Qualify as relevant:  |   | Item   |     |
| <b>Carried to Collection</b>  |   |   |        | R   |
| Section No. 7<br>MECHANICAL INSTALLATION<br>Bill No. 3<br>AUTOMATIC FIRE SUPPRESSION INSTALLATION<br><b>Keimoes Magistrate's office</b> |   |   |        |     |

Section No. 7

MECHANICAL INSTALLATION

Bill No. 3

AUTOMATIC FIRE SUPPRESSION INSTALLATION

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MECHANICAL INSTALLATION

Bill No. 3

AUTOMATIC FIRE SUPPRESSION INSTALLATION

**Keimoes Magistrate's office**

Section No. 7

MECHANICAL INSTALLATION

**SECTION SUMMARY - MECHANICAL INSTALLATION**

| Bill No |   | Page No | Amount |
|---------|---|---------|--------|
| 1       | AIR-CONDITIONING INSTALLATION           | 350     |        |
| 2       | FIRE PROTECTION INSTALLATION            | 357     |        |
| 3       | AUTOMATIC FIRE SUPPRESSION INSTALLATION | 367     |        |

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Section No. 7  
 MECHANICAL INSTALLATION  
**Keimoes Magistrate's office**

# **SECTION 8**

# **PROVISIONAL SUMS**

| Item No  | Quantity | Rate | Amount     |
|--|----------|------|------------|
| <b><u>SECTION NO. 8</u></b>  |          |      |            |
| <b><u>PROVISIONAL SUMS</u></b>   |          |      |            |
| <b><u>BILL NO. 1</u></b>   |          |      |            |
| <b><u>PROVISIONAL SUMS</u></b>   |          |      |            |
| <b><u>B.U.I.L.D PROGRAMME</u></b>  |          |      |            |
| 1  |          |      |            |
| Allow the sum of R215,000.00 (Two Hundred and Fifteen Thousand) for the incorporation of the B.U.I.L.D. Programme requirements   | Item     |      | 215,000.00 |
| 2  |          |      |            |
| Profit and attendance on condition that services and cost has been incurred  |          | %    |            |
| <b><u>COMMUNITY LIASON OFFICER (CLO)</u></b>   |          |      |            |
| 3  |          |      |            |
| Allow the sum of R302,400.00 (Three Hundred and Two Thousand Four Hundred) for the Community Liaison Officer for the construction period of 24 months and in accordance to Government Gazette no 41237 Item 4 and Appendix D   | Item     |      | 302,400.00 |
| 4  |          |      |            |
| Add profit on above if required  |          | %    |            |
| 5  |          |      |            |
| Allow for attendance on the above, if required   |          | %    |            |
| <b><u>CONSTRUCTION HEALTH AND SAFETY AGENT FOR DEPARTMENT</u></b>  |          |      |            |
| 6  |          |      |            |
| Allow the sum of R475,000.00 (Four Hundred and Seventy Five Thousand) for the appointment of the Health and Safety agent on behalf of the client. The agent must assist the Department with the all the duties of the Health and safety officer in accordance to Government Gazette no 37305 Regulation 5 (8) and Appendix 3 including the application for the Construction work permit, prepare and approve the site specific specifications, etc. and the verifications for the construction period of 24 months | Item     |      | 475,000.00 |
| 7  |          |      |            |
| Add profit on above if required  |          | %    |            |
| <b>Carried to Collection</b>   |          |      | R          |
| Section No. 8<br>PROVISIONAL SUMS<br>Bill No. 1<br>PROVISIONAL SUMS<br><b>Keimoes Magistrate's office</b>  |          |      |            |

8 Allow for attendance on the above, if required

%

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**Keimoes Magistrate's office**

Section No. 8

PROVISIONAL SUMS

Bill No. 1

PROVISIONAL SUMS

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PROVISIONAL SUMS

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PROVISIONAL SUMS

**Keimoes Magistrate's office**

## **SECTION 9**

# **CONTRACT PARTICIPATION GOALS (CPG)**



| Item No  | Quantity  | Rate | Amount    |
|--|---|------|-----------|
| <b><u>SECTION NO. 9</u></b>  |   |      |           |
| <b><u>CONTRACT PARTICIPATION GOALS</u></b>   |   |      |           |
| <b><u>BILL NO. 1</u></b>   |   |      |           |
| <b><u>CONTRACT PARTICIPATION GOAL (CPG)</u></b>  |   |      |           |
| <b>Note to tenderers:</b>  |   |      |           |
| The implementation of CPGs may not provide any bidder a competitive advantage.   |   |      |           |
| Provisional amounts and fixed percentages for profit and attendance have been provided. Only the provisional amount will be adjusted once the awarded tender amount and/or the beneficiaries have been appointed, and the final values have been ascertained.  |   |      |           |
| Targeted enterprises or beneficiaries of any CPG may not participate or form part of more than one CPG.  |   |      |           |
| Sanctions (penalties) are applicable to all CPGs where the contractor fails to achieve the minimum specified requirements, unless the contractor can prove to the Employer's satisfaction that the non-achievement was beyond his/her control.   |   |      |           |
| <b><u>MINIMUM TARGETED LOCAL BUILDING MATERIAL SUPPLIERS</u></b>   |   |      |           |
| <u>Provision is made for the Minimum Targeted Local Building Material Suppliers CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.2. Material to the value of R 600 000.00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables.</u> |   |      |           |
| 1  | Allowance for monitoring and monthly reporting on material purchased from Local Building Material Suppliers by main contractor and subcontractors - <b>FIXED @ 5%</b> | Item | 30,000.00 |
| <b>Carried to Collection</b>   |   |      | R         |
| Section No. 9<br>CONTRACT PARTICIPATION GOALS<br>Bill No. 1<br>CONTRACT PARTICIPATION GOALS (CPG)<br><b>Keimoes Magistrate's office</b>  |   |      |           |

|  |  |      |            |
|--|--|------|------------|
| 2  | Allowance for profit all inclusive of associated costs to the contractor for implementation <b>FIXED @ 10%</b>   | Item | 3,000.00   |
| 3  | Allowance for attendance all inclusive of associated costs to the contractor for implementation <b>FIXED @ 10%</b>   | Item | 3,000.00   |
| <b><u>MINIMUM TARGETED LOCAL LABOUR SKILLS DEVELOPMENT</u></b> |  |      |            |
| 4  | Provision is made for the Minimum Targeted Local Labour Skills Development CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.3. This allowance is for the cost for a suitable qualified and experienced training service provider appointed by the main contractor | Item | 380,000.00 |
| 5  | Allowance for monitoring and monthly reporting on training provided by main contractor and subcontractors - <b>FIXED @ 5%</b>  | Item | 19,000.00  |
| 6  | Allowance for profit all inclusive of associated costs to the contractor for implementation <b>FIXED @ 10% on the monitoring and reporting</b>   | Item | 1,900.00   |
| 7  | Allowance for attendance all inclusive of associated costs to the contractor for implementation <b>FIXED @ 10% on the monitoring and reporting</b>   | Item | 1,900.00   |

**MINIMUM TARGETING ENTERPRISE DEVELOPMENT**

REQUIREMENT FOR THE ENTERPRISE DEVELOPMENT SUPPORT IN AT LEAST THE FOLLOWING DEVELOPMENTAL AREAS:

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**Keimoes Magistrate's office**

LEGAL COMPLIANCE

8 **SAQS ID**  
**Construction Contract Law**

Purpose of unit standard:

1. Construction law and law of delict – an overview;
2. history of building contracts in South Africa;
3. JBCC principal building and nominated/selected subcontract agreements: interpretation, insurance and security, execution, completion, payment, suspension and termination, dispute resolution;
4. JBCC minor works agreement; case studies

**Number of Credits - 12 No 2**

PLANNING, TENDERING AND PROGRAMMING  
SKILLS TRANSFER

9 **SAQS ID 119712**  
**Tender for business or work in selected new venture**

Purpose of unit standard:

The qualifying learner is capable of:

1. Procuring and reviewing a tender document.
2. Preparing and completing a tender document.
3. Submitting a tender document

**Number of Credits - 8 No 2**

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**SAQS ID 119674**  
**Manage finances for a new venture**

Purpose of unit standard:  
 The qualifying learner is capable of:

1. Explaining financial controls for managing a business
2. Identifying and applying accounting practices and procedures
3. Managing business accounts and maintaining business records
4. Utilising financial statements to identify business progress

**Number of Credits - 10 No 2**

**Appointment of an Enterprise Development Co-ordinator**

The enterprise development co-ordinator shall have the following competencies:

- Minimum experience of 5 years in the construction industry at Managerial level as a Site Agent, Contracts Manager, Site Manager, Construction Manager, Business Development Manager or Enterprise Development Manager.
- Minimum experience of 2 years in training and development in Building or Construction; and
- National Diploma or B Degree in the Built Environment or Business Management No 2

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10 Provision is made for 30% compulsory subcontracting to SMMEs in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.4. The percentage is the contractors allowance for the P&G's for the 30% sub-contractors (SMME's).The PQS is to define the actual P&G items applicable to the SMME's e.g. scaffolding , PPE etc. - **FIXED @ 7,5%**

Item

340,000.00

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|    |  |      |              |
|----|--|------|--------------|
| 11 | A provisional sum has been allowed for the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.4. The provisional amount allowed is for the appointment of training coordinator, mentor, training service providers and training of the beneficiary enterprises including monitoring and monthly reporting. | Item | 1,660,000.00 |
| 12 | Allowance for monitoring and monthly reporting on SMME subcontracting by main contractor and subcontractors including training provided - <b>FIXED @ 5%</b>  | Item | 100,000.00   |
| 13 | Allowance for profit all inclusive of associated costs to the contractor for implementation <b>FIXED @ 5%</b>  | Item | 100,000.00   |
| 14 | Allowance for attendance all inclusive of associated costs to the contractor for implementation <b>FIXED @ 5%</b>  | Item | 100,000.00   |

**MINIMUM TARGETED SKILLS DEVELOPMENT GOALS**

|    |  |      |            |
|----|--|------|------------|
| 15 | A provisional amount has been allowed for the Minimum Targeted Skills Development CPG in the execution of this project as described in PG-01.2 (EC) SCOPE OF WORKS C3.6.5.<br><br><ul style="list-style-type: none"> <li>• stipends payable to the beneficiaries</li> <li>• appointment of training coordinator</li> <li>• appointment of mentor (where applicable)</li> <li>• appointment of training service providers</li> <li>• other additional costs as per table 3 of the Standard</li> </ul> | Item | 480,000.00 |
| 16 | Allowance for monitoring and monthly reporting on skills development by main contractor and subcontractors - <b>FIXED @ 5%</b>   | Item | 24,000.00  |
| 17 | Allowance for profit on all inclusive costs to the contractor for implementation <b>FIXED @ 5%</b>   | Item | 24,000.00  |
| 18 | Allowance for attendance all inclusive of associated costs to the contractor for implementation <b>FIXED @ 5%</b>  | Item | 24,000.00  |

**NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME**

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|   |   |      |            |
|---|---|------|------------|
| 19  | <p><u>Refer to Bill 2 of this section for the EPWP - NYS BOQ</u></p> <p>A provisional amount has been allowed for the monthly reporting based on the implementation of the EPW-NYS as per the specifications and EPWP-NYS BOQ all inclusive costs to the contractor - <b>FIXED @ 5%</b></p> | Item | 230,000.00 |
| <p><b><u>LABOUR INTENSIVE PARTICIPATION GOAL</u></b></p>  |   |      |            |
| <p><u>Labour Intensive Participation Goal - Labour intensive works to the value of R2,660,000.00 should be purchased from local suppliers as defined in the CPG specifications in terms of locality, based on determination by PQS taking into account specific project variables. Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors.</u></p> |   |      |            |
| 20  | <p>Allowance for monitoring and monthly reporting on Works executed by means of Labour Intensive methods by main contractor and subcontractors <b>FIXED @ 2%</b></p>  | Item | 53,200.00  |
| 21  | <p>Allowance for profit all inclusive of associated costs to the contractor for implementation <b>FIXED @ 10%</b></p>   | Item | 5,320.00   |

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Section No. 9

CONTRACT PARTICIPATION GOALS

Bill No. 1

CONTRACT PARTICIPATION GOALS (CPG)

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| Item No  | Quantity | Rate | Amount |
|--|----------|------|--------|
| <p><b><u>SECTION NO. 9</u></b></p>   |          |      |        |
| <p><b><u>BILL NO. 2</u></b></p>  |          |      |        |
| <p><b><u>EXPANDED PUBLIC WORKS PROGRAMME (EPWP) INFRASTRUCTURE PROJECTS: NATIONAL YOUTH SERVICE (NYS)</u></b></p>  |          |      |        |
| <p><b><u>PREAMBLES</u></b></p>   |          |      |        |
| <p>Tenderers are advised to study Additional Specification SL:Employment and Training of Labour on the Expanded Public Works Programme (EPWP) Infrastructure Projects: National Youth Service (NYS), as bound under the Scope of Work Section in the Bills of Quantities, as well as the "Notes to bidders in connection with EPWP NYS Specifications"" in the Pricing Instruction" and then price this Bill accordingly</p> |          |      |        |
| <p><b>NOTE:</b></p>  |          |      |        |
| <p>Training to be implemented as per MERSETA SETA requirements and therefore all relevant CETA accreditation and Facilitator qualification and Assessor and Moderator registration &amp; qualification documents should accompany this bid</p>   |          |      |        |
| <p>The Company registration, company profile, references for previous training conducted must accompany this bid.</p>  |          |      |        |
| <p><b>Carried to Collection</b></p>  |          |      |        |
| <p>Section No. 9<br/>           CONTRACT PARTICIPATION GOALS<br/>           Bill No. 2<br/>           NATIONAL YOUTH SERVICE TRAINING AND DEVELO<br/> <b>Keimoes Magistrate's office</b></p>   |          | R    |        |



**SPECIFICATION FOR EPWP NYS PERSONAL PROTECTIVE EQUIPMENT**

**1. Overall**

Printing: EPWP Branding, Embroidery  
 Conti-Overall Suit - Jacket and Pants  
 Colour: Red  
 Material: Cotton  
 Warranty: 6 Months

**2. Safety Boots**

Colour: Black  
 Steel toe cap  
 Midsole plate anti-static  
 Oil & acid resistant  
 Full grain leather upper

**3. Helmet**

Colour: Red  
 Printing: EPWP Branding

| PPE | ITEMS                      | Number Of Learners | QUANTITY            |
|-----|----------------------------|--------------------|---------------------|
|     | Branded Conti-Overall Suit | 55                 | 2 pairs per learner |
|     | Safety Boots               |                    | 1 pair per learner  |
|     | Branded Helmet             |                    | 1 pair per learner  |

**4. Gloves, goggles and face masks**

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**MEDICAL FITNESS TEST**

**REQUIREMENTS**

1. Test Must Be Conducted By Qualified Medical Doctor / Qualified Occupational Health Practitioner or Qualified Occupational Medical Practitioner.
2. Test To Be Conducted at Mobile Facilities On Project Site or At The Clinic.
3. Test Must Comply With The Occupational Health and Safety Act Number 85 of 1993
4. Submit Medical Test Execution Plan.
5. Prepare and Submit Learners Valid Medical Fitness Certificates
6. Prepare and Submit Learners Signed Attendance Registers

**MEDICAL FITNESS TEST**

| Description                   | Examination Areas    | Number Of Learners | DAYS |
|-------------------------------|----------------------|--------------------|------|
| Medical Fitness Test (01 Day) | Physical Examination | 55                 | 01   |
|                               | Medical History      |                    |      |
|                               | Audio Screening      |                    |      |
|                               | Vision Screening     |                    |      |
|                               | Height and Weight    |                    |      |
|                               | Blood Pressure       |                    |      |
|                               | Lung Function Test   |                    |      |
|                               | Urine Test           |                    |      |
|                               | Working on Heights   |                    |      |

**EPWP NYS LIFE SKILLS TRAINING**

**REQUIREMENTS**

1. Proof that facilitator/service provider has been

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trained by National Youth Development Agency (NYDA) and that training is NYDA Aligned / Compliant or Similar Accredited.

2. Submit Valid RSA TAX Clearance Certificate
3. Submit Training Service Provider Company Profile
4. Submit the Company Relevant Historical Training Experience and Reference
5. Submit Training Implementation Plan I Rollout Plan
6. Prepare and Submit Learners Certificates of Attendance
7. Submit Training Report
8. Submit Signed attendance registers
9. Arrange Training Venue

**LIFE SKILLS TRAINING**

| <b>Training</b>      | <b>Areas/Unit Standards</b>         | <b>Number of Learners</b> | <b>Days</b> |
|----------------------|-------------------------------------|---------------------------|-------------|
| Life Skills Training | Manage Work Time Effectively        | 55                        | 1           |
|                      | Personal Development                |                           | 1           |
|                      | Conflict In The Workplace           |                           | 1           |
|                      | Resolving Conflict In The Workplace |                           | 1           |
|                      | Diversity In The Workplace          |                           | 1           |
|                      | TOTAL Number Of Days                |                           | 5           |

Note: The contractor shall test the market by submitting the 3 quotes before appointment of the training provider

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**TRAINING OF YOUTH WORKERS**

TARGET : 160 YOUTH WORKERS

**ORIENTATION, LIFE SKILLS DEVELOPMENT AND TECHNICAL TRAINING:**

**Orientation and Life skills development training:**

- 1 Allow the sum of R341,440.00 (Three Hundred and Forty One Thousand Four Hundred and Forty) for Orientation and Life skills development training for youth workers for an average of 10 days per youth worker (SL 11.01.01)

Item

341,440.00

The above items are only applicable if NYDA do not fund the specific training

Payment Reduction due to not meeting the training target (ref SL 11.03) - Less R 2 500.00 per Youth-worker

- 2 Allow the sum of R102,432.00 (One Hundred and Two Thousand Four Hundred and Thirty Two) for Provision of Medical Surveillance ( Ref SL 11.05.01)

Item

102,432.00

- 3 Profit and attendance on condition that services and cost has been incurred (on both items above)

%

**TRAVELLING DURING ON-SITE TRAINING**

Practical Work based Experimental training for 10 days each (SL 11.02.01)

- 4 Allow the sum of R51,216.00 (Fifty One Thousand Two Hundred and Sixteen) for Travelling (based on R30 per day return trip/youth worker)

Item

51,216.00

- 5 Profit and attendance on condition that services and cost has been incurred (on item above)

%

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**TECHNICAL TRAINING:**

A CETA ACCREDITED TRAINING PROVIDER WILL BE APPOINTED BY THE MAIN CONTRACTOR TO IMPLEMENT THE SKILLS PROGRAM TO TRAIN 55 YOUTHS FROM KEIMOES, NORTHERN CAPE

The Training Provider sub-contractor must be accredited with the Construction SETA.

Bidders to include the Training provider on form "DPW15(EC): Schedule of Proposed Subcontractors" and submit certified copies of their Accreditation certificate.

Construction SETA Accreditation Number:

\_\_\_\_\_

Accreditation Expiry Date:

\_\_\_\_\_

**NOTE:**

The Contractor must allow for the **theoretical training** and the **practical simulations** and must include costing for the training venue, travelling of facilitators, assessors and moderators, their accommodation, equipment, stationary, learning material, relevant construction materials (for during practicals/simulations). **These and other relevant items must be included as overheads to be included in the course prices.**

**PAINTING, TILING AND PLUMBING**  
**NATIONAL CERTIFICATE: CIVIL & BUILDING**  
**CONSTRUCTION – SAQA 65409 (20 LEANERS TO BE TRAINED)**

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TRAINING PROVIDER FOR THE FOLLOWING COURSES - Total 145 Credits 181 days  
Training implementation costs - 70% Practical & 30% Theory

|    |   |                |    |    |
|----|---|----------------|----|----|
| 6  | Course 259604:<br>Verify compliance to safety, health and environmental requirements in the workplace<br>NQF level - 02<br>Credits 4                                | No of learners | No | 20 |
| 7  | Course 14672:<br>Describe the composition, roleplayers and the role of the construction industry in the South African economy<br>NQF level - 03<br>Credits 4        | No of learners | No | 20 |
| 8  | Course 261661:<br>Develop construction work plans<br>NQF level - 03<br>Credits 8  | No of learners | No | 20 |
| 9  | Course 261664:<br>Erect, use and dismantle access equipment for construction work<br>NQF level - 03<br>Credits 6  | No of learners | No | 20 |
| 10 | Course 261658:<br>Identify, use and maintain tools, machines, equipment and materials for building and civil construction activities<br>NQF level - 03<br>Credits 4 |                | No | 20 |
| 11 | Course 261737:<br>Procure building and civil construction materials, tools and equipment<br>NQF level - 03<br>Credits 8   |                | No | 20 |
| 12 | Course 254220 : Provide primary emergency care/ first aid as an advanced responder<br>NQF level - 3<br>Credits – 8  |                | No | 20 |

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|   |   |    |    |   |
|---|---|----|----|---|
| 13  | Course 14580 : Read and interpret construction drawings and specifications<br>NQF level - 3<br>Credits 10   | No | 20 |   |
| 14  | Course 119472 : Accommodate audience and context needs in oral/signed communication<br>NQF level - 3<br>Credits 5   | No | 20 |   |
| 15  | Course 9010 : Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations<br>NQF level - 3<br>Credits 2 | No | 20 |   |
| 16  | Course 9013 : Describe, apply, analyse and calculate shape and motion in 2 –and 3 –dimensional space in different contexts<br>NQF level - 03<br>Credits 4   | No | 20 |   |
| 17  | Course 119457 : Interpret and use information from texts<br>NQF level - 03<br>Credits 5   | No | 20 |   |
| 18  | Course 9012 : Investigate life and work related problems using data and probabilities<br>NQF level - 03<br>Credits 5  | No | 20 |   |
| 19  | Course 119467 : Use language and communication in occupational learning programmes<br>NQF level - 03<br>Credits 5   | No | 20 |   |
| 20  | Course 7456: Use mathematics to investigate and monitor the financial aspects of personal, business and national issues<br>NQF level - 03<br>Credits 5  | No | 20 |   |
| 21  | Course 119465: Write/present/sign texts for a range of communicative contexts<br>NQF level - 02<br>Credits 3  | No | 20 |   |
| <b>Carried to Collection</b>  |   |    |    |   |
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|   |   |    |    |   |
|---|---|----|----|---|
| 22  | Course 12444 : Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts<br>NQF level - 03<br>Credits 5 | No | 20 |   |
| 23  | Course 14673 : Install Finishing Components<br>NQF Level - 3<br>Credits - 16  | No | 20 |   |
| 24  | Course 261666 : Prime and apply paint to surfaces<br>NQF level - 3<br>Credits -18 credits   | No | 20 |   |
| 25  | Coures 261697 :<br>Prepare surfaces for painting<br>NQF level - 3<br>Credits - 18   | No | 20 |   |
| 26  | Coures 261665 : Prepare surfaces and apply tiles<br>NQF level - 3<br>Credits - 20   | No | 20 |   |
| 27  | Course 11784 : Install and maintain drainage systems<br>NQF Level - 3<br>Credits - 12   | No | 20 |   |
| 28  | Course 244492 : Install, maintain and repair sanitaryware appliances<br>NQF Level - 4<br>Credits - 8  | No | 20 |   |
| 29  | Profit and attendance on condition that services and cost has been incurred (on technical training items above )  |    |    | % |
| <p><b>CARPENTERS</b><br/> <b>NATIONAL CERTIFICATE: CIVIL &amp; BUILDING</b><br/> <b>CONSTRUCTION – SAQA 65409 (10 LEARNERS TO BE TRAINED)</b></p> |   |    |    |   |
| <b>Carried to Collection</b>  |   |    |    |   |
| Section No. 9<br>CONTRACT PARTICIPATION GOALS<br>Bill No. 2<br>NATIONAL YOUTH SERVICE TRAINING AND DEVELO<br><b>Keimoes Magistrate's office</b>   |   |    |    | R |



TRAINING PROVIDER FOR THE FOLLOWING COURSES - Total 145 Credits 181 days  
Training implementation costs - 70% Practical & 30% Theory

|    |   |                |    |    |
|----|---|----------------|----|----|
| 30 | Course 259604:<br>Verify compliance to safety, health and environmental requirements in the workplace<br>NQF level - 02<br>Credits 4                                | No of learners | No | 10 |
| 31 | Course 14672:<br>Describe the composition, roleplayers and the role of the construction industry in the South African economy<br>NQF level - 03<br>Credits 4        | No of learners | No | 10 |
| 32 | Course 261661:<br>Develop construction work plans<br>NQF level - 03<br>Credits 8  | No of learners | No | 10 |
| 33 | Course 261664:<br>Erect, use and dismantle access equipment for construction work<br>NQF level - 03<br>Credits 6  | No of learners | No | 10 |
| 34 | Course 261658:<br>Identify, use and maintain tools, machines, equipment and materials for building and civil construction activities<br>NQF level - 03<br>Credits 4 |                | No | 10 |
| 35 | Course 261737:<br>Procure building and civil construction materials, tools and equipment<br>NQF level - 03<br>Credits 8   |                | No | 10 |
| 36 | Course 254220 : Provide primary emergency care/ first aid as an advanced responder<br>NQF level - 3<br>Credits – 8  |                | No | 10 |

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|   |   |    |    |   |
|---|---|----|----|---|
| 37  | Course 14580 : Read and interpret construction drawings and specifications<br>NQF level - 3<br>Credits 10   | No | 10 |   |
| 38  | Course 119472 : Accommodate audience and context needs in oral/signed communication<br>NQF level - 3<br>Credits 5   | No | 10 |   |
| 39  | Course 9010 : Demonstrate an understanding of the use of different number bases and measurement units and an awareness of error in the context of relevant calculations<br>NQF level - 3<br>Credits 2 | No | 10 |   |
| 40  | Course 9013 : Describe, apply, analyse and calculate shape and motion in 2 –and 3 –dimensional space in different contexts<br>NQF level - 03<br>Credits 4   | No | 10 |   |
| 41  | Course 119457 : Interpret and use information from texts<br>NQF level - 03<br>Credits 5   | No | 10 |   |
| 42  | Course 9012 : Investigate life and work related problems using data and probabilities<br>NQF level - 03<br>Credits 5  | No | 10 |   |
| 43  | Course 119467 : Use language and communication in occupational learning programmes<br>NQF level - 03<br>Credits 5   | No | 10 |   |
| 44  | Course 7456: Use mathematics to investigate and monitor the financial aspects of personal, business and national issues<br>NQF level - 03<br>Credits 5  | No | 10 |   |
| 45  | Course 119465: Write/present/sign texts for a range of communicative contexts<br>NQF level - 02<br>Credits 3  | No | 10 |   |
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|   |   |    |      |            |
|---|---|----|------|------------|
| 46  | Course 12444 : Measure, estimate and calculate physical quantities and explore, describe and represent geometrical relationships in 2-dimensions in different life or workplace contexts<br>NQF level - 03<br>Credits 5 | No | 10   |            |
| 47  | Course 14673 : Install Finishing Components<br>NQF Level - 3<br>Credits - 16  | No | 10   |            |
| 48  | Course 243751 : Interpret and apply building standards relevant to ceilings and partitioning<br>NQF Level - 3<br>Credits - 12   | No | 10   |            |
| 49  | Course 14676 : Erect Roof Trusses<br>NQF Level - 3<br>Credits - 16  | No | 10   |            |
| 50  | Profit and attendance on condition that services and cost has been incurred (on technical training items above )  |    |      | %          |
| <b>NOTE:</b>  |   |    |      |            |
| 20% of the total contract value for these items will be retained and only paid upon receipt of MERSETA certificates, statement of results and proof of uploads. |   |    |      |            |
| <b><u>TRAINING PROVIDER FOR TOTAL OF 25 BENEFICIARIES CONSISTING OF:</u></b>  |   |    |      |            |
| <b><u>Bricklaying, plastering and steel fixing - 20</u></b>   |   |    |      |            |
| <b><u>Artisan electrical - 5</u></b>  |   |    |      |            |
| 51  | Allow the sum of R613,525.00 Six Hundred and Thirteen Thousand Five Hundred and Twenty Five for the practical training of TVET college graduates for a period of 12 months  |    | Item | 613,525.00 |
| 52  | Add profit on above if required   |    |      | %          |
| 53  | Allow for attendance on the above, if required  |    |      | %          |
| <b>Carried to Collection</b>  |   |    |      | R          |
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|   |   |    |      |              |
|---|---|----|------|--------------|
| 54  | Provide a mentor for the training for Bricklaying, plastering and steel fixing  | No | 1    |              |
| 55  | Provide a mentor for the training for Painting, tiling and plumbing   | No | 1    |              |
| 56  | Provide a mentor for the training for Electrical  | No | 1    |              |
| 57  | Provide a mentor for the training for Carpenters  | No | 1    |              |
| 58  | Profit and attendance on condition that services and cost has been incurred (on technical training items above )  |    |      | %            |
| <b><u>EMPLOYMENT OF YOUTH WORKERS</u></b>   |   |    |      |              |
| 59  | Allow the sum of R1,335,083.75 (One Million Three Hundred and Thirty Five Thousand and Eighty Three and Seventy Five) for Employment of youth workers for on the job training (6 months)  |    | Item | 1,335,083.75 |
|   | The unit of measurement shall be the number of youth workers at the labour rate of R 114.00 minimum per day on Training as per EPWP Ministerial Determination multiplied by the period employed in months and the rate tendered shall include full compensation for all costs associated with the employment of youth workers and for complying with the conditions of contract. The cost for the training shall be excluded from this item. This item is based on 9 months appointment for youth workers |    |      |              |
| 60  | Profit and attendance on condition that services and cost has been incurred (on both items above) (ref SL 11.04.02)   |    |      | %            |
| <b><u>PROVISION OF EPWP DESIGNED OVERALLS AND HARD HATS TO YOUTH WORKERS</u></b>  |   |    |      |              |
| 61  | Allow the sum of R80,000.00 (Eighty Thousand) for the supply of EPWP branded 2 x overalls, 2 x Safety boots and 1 X EPWP branded hard hat to youth workers as well as gloves, goggles and face masks (ref SL 11.05.01)  |    | Item | 80,000.00    |
| 62  | Profit and attendance on condition that services and cost has been incurred   |    |      | %            |
| <b>Carried to Collection</b>  |   |    |      | R            |
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**PROVISION OF BASIC TOOLS FOR YOUTH WORKERS**

|    |   |  |      |   |            |
|----|---|--|------|---|------------|
| 63 | Allow the sum of R100,000.00 (One Hundred Thousand) to provide all youth workers with prescribed tools for their respective trades. Specification for the mentioned tools to be provided by the Service Provider. These tools will become the property of the youth workers after the completion of the programme (ref SL 11.06.01) |  | Item |   | 100,000.00 |
| 64 | Profit and attendance on condition that services and cost has been incurred   |  |      | % |            |

**APPOINTMENT OF YOUTH TRAINING CO-ORDINATOR (TEAM LEADER/S)**

|    |   |    |      |   |            |
|----|---|----|------|---|------------|
| 65 | Allow the sum of R120,000.00 (One Hundred and Twenty Thousand) for Appointment of Experience (in Construction) Team Leader for the duration of the contract (14 months @ R 8 500.00) ref SL 11.07.01) |    | Item |   | 120,000.00 |
| 66 | Monitoring of the Learners on site (Each Theory completing group) for a month after they arrive on site   | No | 4    |   |            |
| 67 | Profit and attendance on condition that services and cost has been incurred   |    |      | % |            |

**LIAISON WITH SERVICE PROVIDER**

|    |  |     |       |  |  |
|----|--|-----|-------|--|--|
| 68 | Liaison with Service provider (ref SL 11.08) | Hrs | 30.00 |  |  |
|----|--|-----|-------|--|--|

**LOGISTICS FOR EXIT WORKSHOPS**

|    |  |  |      |   |           |
|----|--|--|------|---|-----------|
| 69 | Allow the sum of R31,177.74 (Thirty One Thousand One Hundred and Seventy Seven and Seventy Four) to provide Logistic items for exit workshops (Catering, Oranje Golf T-Shirts, Venue Hire and Sound System)                                  |  | Item |   | 31,177.74 |
| 70 | Allow the sum of R66,687.50 (Sixty Six Thousand Six Hundred and Eighty Seven and Fifty) to provide Logistic items for 25 beneficiaries to attend trade test in Gauteng including transport, accommodation, meals and cost of training centre |  | Item |   | 66,687.50 |
| 71 | Profit and attendance on condition that services and cost has been incurred  |  |      | % |           |

**Carried to Collection**

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Section No. 9

CONTRACT PARTICIPATION GOALS

Bill No. 2

NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME

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**Keimoes Magistrate's office**

Section No. 9

CONTRACT PARTICIPATION GOALS

**SECTION SUMMARY - CONTRACT PARTICIPATION GOALS**

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| 1   | CONTRACT PARTICIPATION GOALS (CPG)                        | 378     |        |
| 2   | NATIONAL YOUTH SERVICE TRAINING AND DEVELOPMENT PROGRAMME | 393     |        |
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# FINAL SUMMARY



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| 1          | PRELIMINARIES  | 32      |        |
| 2          | BUILDING WORK  | 206     |        |
| 3          | EXTERNAL WORK  | 232     |        |
| 4          | ROADWORKS (PROVISIONAL)                              | 250     |        |
| 5          | ELECTRICAL INSTALLATION                              | 306     |        |
| 6          | ELECTRONIC INSTALLATION                              | 331     |        |
| 7          | MECHANICAL INSTALLATION                              | 368     |        |
|            | Sub Total  |         | R      |
| 8          | PROVISIONAL SUMS                                     | 371     |        |
| 9          | CONTRACT PARTICIPATION GOALS                         | 394     |        |
|            | SUB-TOTAL  |         | R      |
|            | Value Added Tax                                      |         | R      |
|            | <b>Total carried to Form of Offer and Acceptance</b> |         | R      |
|            | <b>Keimoes Magistrate's office</b>                   |         |        |