BILL NO. 1

PRELIMINARIES & GENERAL

MINOR WORKS AGREEMENT

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

PRELIMINARIES

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

Fixed

1 Preliminaries cost which shall be a fixed amount

Value Related

2 Preliminaries cost which shall be varied in accordance with the value of the works

Time Related

3 Preliminaries cost which shall be varied in accordance with the duration of the contract

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 1
Preliminaries & General
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

ZAR
2020/05/29

JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Bill No. 1</th>
<th>COVID-19 SAFETY INSTALLATIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.</td>
<td></td>
</tr>
<tr>
<td>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.</td>
<td></td>
</tr>
<tr>
<td>SUPPLEMENTARY PREAMBLES</td>
<td></td>
</tr>
<tr>
<td>All work shall proceed under strict supervision of the Project Manager.</td>
<td></td>
</tr>
<tr>
<td>SOCIAL DISTANCING MARKING</td>
<td></td>
</tr>
<tr>
<td>1 48mm Wide Altezze floor marking red tape</td>
<td>m</td>
</tr>
<tr>
<td>2 150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
</tr>
<tr>
<td>3 250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
</tr>
<tr>
<td>4 Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
</tr>
<tr>
<td>5 Blank out chairs with 48mm Altezze red tape.</td>
<td>No</td>
</tr>
</tbody>
</table>

**Carried Forward**

Section No. 1
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**JMPD VEHICLE TESTING STATIONS - 8 STATIONS**  
COVID-19 SAFETY INSTALLATION PROJECTS  
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT  
2019

<table>
<thead>
<tr>
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<th></th>
<th>Brought Forward</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ZAR</td>
<td>---</td>
</tr>
</tbody>
</table>

**SOCIAL DISTANCING DIVISIONS**

6. 5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.  
m² | 105

**METAL FITTINGS**

7. 1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.  
No | 6

8. P-6000 Automatic sanitizing booth or similar approved.  
No | 2

**SUNDRIES**

9. Macally clear protective keyboard cover, or similar approved.  
No | 95

**BUDGETARY AMOUNT**

10. Allow an amount of Five Thousand rand for Covid-19 awareness signage  

Carried Forward to Summary of Section No. 1

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ZAR</td>
</tr>
</tbody>
</table>

Section No. 1
Bill No. 2  
Covid-19 Safety Installations  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### BILL NO. 2

**IRONMONGERY**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**BATHROOM FITTINGS**

"IW" or equal and approved fixed to timber

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Code IW7015SS wall mounted soap dispenser plugged</td>
<td>6</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 1

Section No. 1

Bill No. 3

Ironmongery

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 3**

**PLUMBING & DRAINAGE (MEASURED PROVISIONALLY)**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

**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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site.
**Brought Forward**  

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).

**REPLACE DAMAGED SANITARY FITTINGS**

*Vitreous China Sanitaryware - "Vaal" or equally approved*

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refurbish existing stand-alone urinal</td>
</tr>
</tbody>
</table>

**SUNDRIES**

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Replace leaking or damaged rubber flushpipe connector</td>
</tr>
<tr>
<td>3</td>
<td>Seal leaking uPVC or cast iron WC pan connector joint</td>
</tr>
<tr>
<td>4</td>
<td>Attend to, fix leaking waste union and tighten backnut</td>
</tr>
<tr>
<td>5</td>
<td>Replace 15mm leaking tap or stoptap washer including spindle gland packing</td>
</tr>
</tbody>
</table>

**REPLACE DAMAGED ELECTRIC WATER HEATERS AND ACCESSORIES**

---

**Carried Forward**

Section No. 1  
Bill No. 4  
Plumbing & Drainage (Measured Provisionally)  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
</table>

**KWIKOT OR EQUIVALENT: Geyser with a 5-year warranty**

Locate damage, isolate affected area including draining existing geyser, uncoupling water and electrical connection, lift and remove where required and replace with new geyser and/or accessories complete with re-fitting connections and bond to earth, all fixings, mountings brackets, etc. and leave in good working order.

6 200 Litre standard high pressure universal wall or roof void mounted water heater complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).

| No | 2 |

---

**Carried Forward to Summary of Section No. 1**

Section No. 1
Bill No. 4
Plumbing & Drainage (Measured Provisionally)

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

---

-7-
Bill No. 4

**ELECTRICAL WORK**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

**Distribution boards etc:**

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.

Switches, socket outlets, etc.

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates.

---

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**Carried Forward**

ZAR

Section No. 1
Bill No. 5
Electrical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**JMPD VEHICLE TESTING STATIONS - 8 STATIONS**  
COVID-19 SAFETY INSTALLATION PROJECTS  
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT  
2019

<table>
<thead>
<tr>
<th><strong>Brought Forward</strong></th>
<th><strong>ZAR</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Switches, socket outlets, etc</td>
<td></td>
</tr>
</tbody>
</table>

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates

<table>
<thead>
<tr>
<th><strong>Light fittings</strong></th>
<th></th>
</tr>
</thead>
</table>

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

**BARE STRANDED COPPER CABLE**

Supply, deliver and install in conduits the following insulated copper wires (Measured Provisionally)

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>2,5mm² for lighting</td>
</tr>
<tr>
<td></td>
<td>m 20</td>
</tr>
</tbody>
</table>

**LUMINAIRES AND EQUIPMENT**

Supply and install luminaires or equipment complete with lamps, connections, etc mounted in position indicated on the drawing

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>28W LED Spot lights</td>
</tr>
<tr>
<td></td>
<td>No 6</td>
</tr>
<tr>
<td>3</td>
<td>Linear 2 x 58W Channel fluorescent complete with electronic control gear equal to Lascon R258 Channel</td>
</tr>
<tr>
<td></td>
<td>No 10</td>
</tr>
</tbody>
</table>

**Carried Forward**  
ZAR

Section No. 1  
Bill No. 5  
Electrical Work  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### Brought Forward

<table>
<thead>
<tr>
<th>No</th>
<th>Item Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>Replace tubes for Linear 2 x 58W Channel fluorescent light fittings. No 15</td>
</tr>
<tr>
<td>5</td>
<td>16A One-lever one-way switch No 4</td>
</tr>
</tbody>
</table>

### Electrical Work

- Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**BILL NO. 5**

**MECHANICAL WORK**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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**SUPPLEMENTARY PREAMBLES**

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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.

**AIR CONDITIONING INSTALLATION**

Carried Forward

Section No. 1
Bill No. 6
Mechanical Work

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Airconditioning</strong></td>
<td></td>
</tr>
<tr>
<td>1 Repair 12000 BTU Wall mounted unit with condensor section mounted on external wall</td>
<td>No 4</td>
</tr>
<tr>
<td><strong>Fire Protection</strong></td>
<td></td>
</tr>
<tr>
<td>2 Refurbish and service existing CO2 fire extinguishers</td>
<td>No 2</td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 1

Section No. 1
Bill No. 6
Mechanical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
BILL NO. 6

PROVISIONAL SUMS

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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GENERALLY:

Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned. Provisional sums are for material and equipment supplied and installed complete by firms of specialists Profit.

Where stated, the contractor may allow for profit if required.

The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement.

Carried Forward

Section No. 1
Bill No. 7
Provisional Sums

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
Brought Forward

Special attendance on nominated/selected subcontractors:

Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, craneage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements Builder's work.

Builder's work in connection with specialist services is given elsewhere in these bills of quantities.

PROVISIONAL SUMS

GUARD HOUSE

1  Allow an amount of Eighteen Thousand for the construction of a 2500 x 2500mm Wendy hut complete.

Carried Forward to Summary of Section No. 1

Section No.  1
Bill No.  7
Provisional Sums
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Ironmongery</td>
<td>4</td>
<td></td>
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<tr>
<td>4</td>
<td>Plumbing &amp; Drainage (Measured Provisionally)</td>
<td>7</td>
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<tr>
<td>5</td>
<td>Electrical Work</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Mechanical Work</td>
<td>12</td>
<td></td>
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<tr>
<td>7</td>
<td>Provisional Sums</td>
<td>14</td>
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Carried to Final Summary

Section No. 1
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
BILL NO. 1

PRELIMINARIES & GENERAL

MINOR WORKS AGREEMENT

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

PRELIMINARIES

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

Fixed

1 Preliminaries cost which shall be a fixed amount

Value Related

2 Preliminaries cost which shall be varied in accordance with the value of the works

Time Related

3 Preliminaries cost which shall be varied in accordance with the duration of the contract

Carried Forward to Summary of Section No. 2

ZAR

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**BILL NO. 1**

**COVID-19 SAFETY INSTALLATIONS**

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**SUPPLEMENTARY PREAMBLES**

All work shall proceed under strict supervision of the Project Manager.

**SOCIAL DISTANCING MARKING**

<table>
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<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>48mm Wide Altezze floor marking red tape</td>
<td>m</td>
<td>50</td>
</tr>
<tr>
<td>2</td>
<td>150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>3</td>
<td>250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
<td>17</td>
</tr>
<tr>
<td>4</td>
<td>Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
<td>3</td>
</tr>
<tr>
<td>5</td>
<td>Blank out chairs with 48mm Altezze red tape.</td>
<td>No</td>
<td>30</td>
</tr>
</tbody>
</table>

Carried Forward

Section No. 2
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**SOCIAL DISTANCING DIVISIONS**

6. 5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.  
   m²  67

**FITTINGS**

7. 1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.  
   No  1

8. P-6000 Automatic sanitizing booth or similar approved.  
   No  2

9. Supply and install floor mounted non moving chairs, size: 520 x 500mm, backrest height: 515mm  
   No  80

10. 170 x 300 x 150mm Stand fixed to the wall made of 8mm steel bars to accommodate hand and surface wipe dispenser  
    No  4

**CLEANING**

11. Deep clean entire building and fumigate  
    m²  1000

**SUNDRIES**

12. Macally clear protective keyboard cover, or similar approved.  
    No  4

13. 12L Pedal operated polypropylene sanitary bin satin, size: 463 x 140 x 480mm  
    No  2

14. 200 x 150mm International instruction signs suitable for outside  
    No  5

**Carried Forward**

Section No.  2  
Bill No.  2  
Covid-19 Safety Installations  
*Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD*
<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Amount</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>150 x 150mm International instruction signs suitable for inside</td>
<td>No</td>
<td>5</td>
</tr>
<tr>
<td>16</td>
<td>150 x 150 mm International signs with &quot;Male toilet&quot; symbol</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>17</td>
<td>150 x 150 mm International signs with &quot;Female toilet&quot; symbol</td>
<td>No</td>
<td>1</td>
</tr>
</tbody>
</table>

**BUDGETARY AMOUNT**

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>18</td>
<td>Allow an amount of Five Thousand rand for Covid-19 awareness signage</td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 2

Section No. 2
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### BILL NO. 2

#### CARPENTRY & JOINERY

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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#### SUPPLEMENTARY PREAMBLES

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

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

#### TIMBER DOORS

Carried Forward

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Section No. 2
Bill No. 3
Carpentry & Joinery
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
2020/05/29

**JMPD VEHICLE TESTING STATIONS - 8 STATIONS**  
COVID-19 SAFETY INSTALLATION PROJECTS  
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT  
2019

<table>
<thead>
<tr>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wrought Meranti doors hung to steel frames</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>44mm Framed batten door 900 x 2032mm high of 44 x 100mm top rail and stiles, 44 x 100mm middle ledge and braces and 44 x 100mm bottom rail filled in with 70mm V-jointed one side boarding and covered on other side with 3,2mm plywood with veneer to match door let into and including rebates all round</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Semi-solid flush door with sapele veneer on both sides hung to steel frames</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>40mm Door 813 x 2032mm. high</td>
<td>1</td>
</tr>
</tbody>
</table>

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

Section No. 2  
Bill No. 3  
Carpentry & Joinery  
*Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD*
BILL NO. 3

IRONMONGERY

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

HINGES, BOLTS, ETC.

"Union" or equal and approved fixed to timber

1 100mm steel hinge

LOCKS

"Union" or equal and approved fixed to timber

2 Three lever lockset (2 Keys) with striking plate fixed to metal Ref. CZ682-24-52CH / SC. Lockset with lock, handles and keys, complete

Carried Forward

Section No.  2
Bill No.  4
Ironmongery

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>BATHROOM FITTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;IW&quot; or equal and approved fixed to timber</td>
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<table>
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<th>Code</th>
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<td>Wall mounted soap dispenser plugged</td>
</tr>
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</table>

3 Code IW7015SS wall mounted soap dispenser plugged

Carried Forward to Summary of Section No. 2
BILL NO. 4

MECHANICAL WORK

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and any Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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

Carried Forward

Section No. 2
Bill No. 5
Mechanical Work

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### Descriptions

#### Ductwork

Descriptions of ducts shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification.

#### Dampers

Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts.

#### 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.

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Section No. 2  
Bill No. 5  
Mechanical Work  
**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
### 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.

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**Brought Forward**

<table>
<thead>
<tr>
<th>Description</th>
<th>Costs (ZAR)</th>
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<td>Sound attenuators</td>
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**Carried Forward**

<table>
<thead>
<tr>
<th>Description</th>
<th>Costs (ZAR)</th>
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<td>Fan coil units, fan air terminals and fan heaters</td>
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</tr>
</tbody>
</table>

---

Section No. 2  
Bill No. 5  
Mechanical Work  
**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
### 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.
Brought Forward

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

AIR CONDITIONING INSTALLATION

Airconditioning

1 Allow for a provisional amount of Sixty Five Thousand for the refurbishment and repairs of existing central air-conditioning system, including issuing COCs.

2 Repair 12000 BTU Wall mounted unit with condensor section mounted on external wall

Fire Protection

3 Allow a provisional amount of Five Thousand for refurbishing any defective fire protection equipment, including issuing COCs.

Carried Forward to Summary of Section No. 2

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
## SECTION SUMMARY - Section Two - MIDRAND VEHICLE TESTING CENTRE

<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
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<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>16</td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>19</td>
</tr>
<tr>
<td>3</td>
<td>Carpentry &amp; Joinery</td>
<td>21</td>
</tr>
<tr>
<td>4</td>
<td>Ironmongery</td>
<td>23</td>
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<tr>
<td>5</td>
<td>Mechanical Work</td>
<td>28</td>
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</tbody>
</table>

Carried to Final Summary

Section No. 2
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
BILL NO. 1

PRELIMINARIES & GENERAL

MINOR WORKS AGREEMENT

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

PRELIMINARIES

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

Fixed

1 Preliminaries cost which shall be a fixed amount

Value Related

2 Preliminaries cost which shall be varied in accordance with the value of the works

Time Related

3 Preliminaries cost which shall be varied in accordance with the duration of the contract

Carried Forward to Summary of Section No. 3

Section No. 3
Bill No. 1
Preliminaries & General

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-30-
**BILL NO. 1**

**COVID-19 SAFETY INSTALLATIONS**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

All work shall proceed under strict supervision of the Project Manager.

**SOCIAL DISTANCING MARKING**

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>48mm Wide Altezze floor marking red tape</td>
<td>m</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Blank out chairs with 48mm Altezze red tape.</td>
<td>No</td>
<td>102</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward

Section No. 3
Bill No. 2
Covid-19 Safety Installations

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
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<tr>
<td><strong>Brought Forward</strong></td>
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<td></td>
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<tr>
<td><strong>SOCIAL DISTANCING DIVISIONS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.</td>
<td>m²</td>
<td>121</td>
</tr>
<tr>
<td><strong>FITTINGS</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.</td>
<td>No</td>
<td>7</td>
</tr>
<tr>
<td>8</td>
<td>P-6000 Automatic sanitizing booth or similar approved.</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>170 x 300 x 150mm Stand fixed to the wall made of 8mm steel bars to accommodate hand and surface wipe dispenser</td>
<td>No</td>
<td>4</td>
</tr>
<tr>
<td><strong>SUNDRIES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Macally clear protective keyboard cover, or similar approved.</td>
<td>No</td>
<td>54</td>
</tr>
<tr>
<td>11</td>
<td>12L Pedal operated polypropylene sanitary bin satin, size: 463 x 140 x 480mm</td>
<td>No</td>
<td>12</td>
</tr>
<tr>
<td>12</td>
<td>200 x 150mm International instruction signs suitable for outside</td>
<td>No</td>
<td>6</td>
</tr>
<tr>
<td>13</td>
<td>150 x 150mm International instruction signs suitable for inside</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td><strong>BUDGETARY AMOUNT</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>Allow an amount of Five Thousand rand for Covid-19 awareness signage</td>
<td>Item</td>
<td></td>
</tr>
</tbody>
</table>

*Carried Forward to Summary of Section No. 3*
**BILL NO. 2**

**METALWORK**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**GENERALLY:**

- Descriptions of bolts, anchors, etc

- 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

- Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

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<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carried Forward</strong></td>
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<td></td>
</tr>
</tbody>
</table>

Section No. 3
Bill No. 3
Metalwork

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

ZAR
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres.

Aluminium doors, windows, etc

Doors and windows shall comply with AAAMSA design criteria.

Glazing shall comply with SAGGA regulations. Glass shall be as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings.

Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.

For purpose made windows and doors, refer to drawings annexed to these bills of quantities.

The following certificates shall be provided prior to commencement of site work:

A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product

A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively;

Section No. 3
Bill No. 3
Metalwork

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**Brought Forward**

A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process;

A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked;

A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degredation for a period of not less than five years.

**ALUMINIUM SHOPFRONTS COMPLETE WITH GLAZING, HANDLES AND ALL ACCESSORIES**

**ALUMINIUM DOORS**

1. Service existing aluminium door by replacing, fixing, adjusting all broken or loose door components, including lockset complete and leave in good working condition. No 1

**SUNDRIES**

**Floor strips**

2. 40mm Aluminium floor strips m 2

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

Section No. 3  
Bill No. 3  
Metalwork  
**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**

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<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
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<td></td>
<td></td>
</tr>
<tr>
<td>IRONMONGERY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

| BATHROOM FITTINGS |
| "IW" or equal and approved fixed to timber |

1 Code IW7015SS wall mounted soap dispenser plugged

Carried Forward to Summary of Section No. 3

Section No.  3
Bill No.  4
Ironmongery

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
BILL NO. 4

MECHANICAL WORK

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and any Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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.
Brought Forward

Ductwork

Descriptions of ducts shall be deemed to include stiffeners, jointing materials, sealants, couplers in the running length and access/inspection panels in accordance with the specification.

Dampers

Descriptions of smoke and fire dampers shall be deemed to include fusible links, sleeves, frames, supports and access openings in ducts.

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.

Carried Forward

Section No. 3
Bill No. 5
Mechanical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
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.

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.
Brought Forward

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

**PROVISIONAL SUMS**

**Airconditioning**

Allow for a provisional amount of Thirty Thousand for the refurbishment and repairs of existing central air-conditioning system, including issuing COCs.

<table>
<thead>
<tr>
<th>Carried Forward to Summary of Section No. 3</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Section No. 3</td>
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<tr>
<td>Bill No. 5</td>
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<tr>
<td>Mechanical Work</td>
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</tr>
<tr>
<td>Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD</td>
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</table>
**BILL NO. 5**

**GLAZING**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

- **Float glass**
  - The term "float glass" is used for monolithic annealed glass
- **Laminated glass**
  - Laminated glass to have polyvinyl butyral (PVB) interlayer(s)

**GLAZING TO STEEL WITH PUTTY**

**GLAZING TO ALUMINIUM WITH CLIP ON BEADS (BEADS MEASURED ELSEWHERE)**

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<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
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Section No.  3  
Bill No.  6  
Glazing  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
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<tr>
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<th>ZAR</th>
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</thead>
<tbody>
<tr>
<td>6.38mm clear toughened safety glass</td>
<td></td>
</tr>
</tbody>
</table>

| 1 | 6.38mm Glass | m² | 2 |

Carried Forward to Summary of Section No. 3

Section No. 3
Bill No. 6
Glazing
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### SECTION SUMMARY - Section Three - MALBORO VEHICLE TESTING CENT

<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>32</td>
<td></td>
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<tr>
<td>3</td>
<td>Metalwork</td>
<td>35</td>
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<td>4</td>
<td>Ironmongery</td>
<td>36</td>
<td></td>
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<td>5</td>
<td>Mechanical Work</td>
<td>40</td>
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<tr>
<td>6</td>
<td>Glazing</td>
<td>42</td>
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</tbody>
</table>

Carried to Final Summary

Section No. 3

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

ZAR
BILL NO. 1

PRELIMINARIES & GENERAL

MINOR WORKS AGREEMENT

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

PRELIMINARIES

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

Fixed

1 Preliminaries cost which shall be a fixed amount

Value Related

2 Preliminaries cost which shall be varied in accordance with the value of the works

Time Related

3 Preliminaries cost which shall be varied in accordance with the duration of the contract

Carried Forward to Summary of Section No. 4

Section No. 4
Bill No. 1
Preliminaries & General
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

ZAR
**BILL NO. 1**

**COVID-19 SAFETY INSTALLATIONS**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

All work shall proceed under strict supervision of the Project Manager.

**SOCIAL DISTANCING MARKING**

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>48mm Wide Altezze floor marking red tape</td>
<td>m</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
<td>10</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Blank out chairs with 48mm Altezze red tape.</td>
<td>No</td>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

**Carried Forward**

Section No. 4
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
## Social Distancing Divisions

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.</td>
<td>m²</td>
<td>8</td>
</tr>
</tbody>
</table>

## Fittings

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.</td>
<td>No</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>P-6000 Automatic sanitizing booth or similar approved.</td>
<td>No</td>
<td>3</td>
</tr>
<tr>
<td>9</td>
<td>170 x 300 x 150mm Stand fixed to the wall made of 8mm steel bars to accommodate hand and surface wipe dispenser</td>
<td>No</td>
<td>2</td>
</tr>
</tbody>
</table>

## Sundries

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Macally clear protective keyboard cover, or similar approved.</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>11</td>
<td>12L Pedal operated polypropylene sanitary bin satin, size: 463 x 140 x 480mm</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>200 x 150mm International instruction signs suitable for outside on 1500mm metal stand</td>
<td>No</td>
<td>10</td>
</tr>
<tr>
<td>13</td>
<td>150 x 150mm International instruction signs suitable for inside</td>
<td>No</td>
<td>5</td>
</tr>
</tbody>
</table>

## Budgetary Amount

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Item</th>
</tr>
</thead>
<tbody>
<tr>
<td>14</td>
<td>Allow an amount of Five Thousand rand for Covid-19 awareness signage</td>
<td></td>
</tr>
</tbody>
</table>

---

*Carried Forward to Summary of Section No. 4*
<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 2**

**CARPENTRY & JOINERY**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

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

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

**FITTINGS**

Kitchen cupboards etc with approved hinges, handles and telescopic drawer sliders

---

Carried Forward

Section No. 4
Bill No. 3
Carpentry & Joinery
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Refurbish existing floor cupboard Type F600 - (without top) - 600 x 550 x 880mm high with sides, bottom, division, shelf, and single hinged door</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 4

Section No. 4
Bill No. 3
Carpentry & Joinery

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>BILL NO. 3</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IRONMONGERY</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BATHROOM FITTINGS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>&quot;IW&quot; or equal and approved fixed to timber</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Code IW7015SS wall mounted soap dispenser plugged</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 4

Section No. 4
Bill No. 4
Ironmongery
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
2020/05/29

JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 4**

**PLUMBING & DRAINAGE (MEASURED PROVISIONALLY)**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

Sealing of edges:

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.

Carried Forward

Section No. 4
Bill No. 5
Plumbing & Drainage (Measured Provisionally)

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
Brought Forward

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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% 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).

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).

SUNDRIES

1. Seal leaking uPVC or cast iron WC pan connector joint
   
   No 2

2. Attend to, fix leaking waste union and tighten backnut
   
   No 2

REPLACE DAMAGED ELECTRIC WATER HEATERS AND ACCESSORIES

Carried Forward

Section No. 4
Bill No. 5
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-51-
KWIKOT OR EQUIVALENT: Geyser with a 5-year warranty

Locate damage, isolate affected area including draining existing geyser, uncoupling water and electrical connection, lift and remove where required and replace with new geyser and / or accessories complete with refitting connections and bond to earth, all fixings, mountings brackets, etc. and leave in good working order.

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit Price</th>
<th>Total Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>200 Litre standard high pressure universal wall or roof void mounted water heater complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).</td>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 4

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 5**

**GLAZING**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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*Float glass*

The term "float glass" is used for monolithic annealed glass

*Laminated glass*

Laminated glass to have polyvinyl butyral (PVB) interlayer(s)

**GLAZING TO STEEL WITH PUTTY**

*4mm clear float glass*

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>4mm Glass</td>
<td>m²</td>
</tr>
</tbody>
</table>

Carried Forward

Section No. 4
Bill No. 6
Glazing

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-53-
## GLAZING TO ALUMINIUM WITH CLIP ON BEADS (BEADS MEASURED ELSEWHERE)

6.38mm clear toughened safety glass

<table>
<thead>
<tr>
<th>Item Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>6.38mm Glass</td>
<td>2</td>
<td>m²</td>
</tr>
<tr>
<td>Vinyl films and tinting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vinyl film to glazing</td>
<td>3</td>
<td>m²</td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 4

<table>
<thead>
<tr>
<th>Description</th>
<th>Section No.</th>
<th>Bill No.</th>
<th>Prepared by</th>
</tr>
</thead>
<tbody>
<tr>
<td>Glazing</td>
<td>4</td>
<td>6</td>
<td>Peo Ya Africa Consulting Engineering [PVT] LTD</td>
</tr>
</tbody>
</table>

Brought Forward

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZAR</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 6**

**PROVISIONAL SUMS**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

**GENERALLY:**

Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned Provisional sums are for material and equipment supplied and installed complete by firms of specialists Profit.

Where stated, the contractor may allow for profit if required.

The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement.

Carried Forward  

Section No. 4  
Bill No. 7  
Provisional Sums  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-55-
Special attendance on nominated/selected subcontractors:

Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, cranage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements Builder's work.

Builder's work in connection with specialist services is given elsewhere in these bills of quantities.

PROVISIONAL SUMS

REGISTRATION SHADE

1  Allow an amount of Fifteen Thousand for the supply and installation of a 2500 x 2500mm shade structure

SUM

ELECTRICAL WORK

2  Allow an amount of Twenty Thousand for fixing electrical faults in fittings, sockets, switches, etc

SUM

Carried Forward to Summary of Section No. 4

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
## SECTION SUMMARY - Section Four - ROODEPOORT CITY HALL

<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Carpentry &amp; Joinery</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ironmongery</td>
<td>49</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Plumbing &amp; Drainage (Measured Provisionally)</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Glazing</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Provisional Sums</td>
<td>56</td>
<td></td>
</tr>
</tbody>
</table>

Carried to Final Summary

Section No. 4
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-57-
The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

### PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

**Fixed**

1. Preliminaries cost which shall be a fixed amount

**Value Related**

2. Preliminaries cost which shall be varied in accordance with the value of the works

**Time Related**

3. Preliminaries cost which shall be varied in accordance with the duration of the contract

---

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

Section No. 5  
Bill No. 1  
Preliminaries & General  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD  

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JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

All work shall proceed under strict supervision of the Project Manager.

SOCIAL DISTANCING MARKING

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>48mm Wide Altezze floor marking red tape</td>
<td>m</td>
<td>8</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
<td>6</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Blank out chairs with 48mm Altezze red tape</td>
<td>No</td>
<td>45</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward

Section No. 5
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
# COVID-19 SAFETY INSTALLATION PROJECTS

**CLIENT:** JOHANNESBURG METROPOLITAN POLICE DEPARTMENT

**BILL NO. 2**

## BUDGETARY AMOUNT

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>SOCIAL DISTANCING DIVISIONS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.</td>
<td></td>
<td>m²</td>
<td>54</td>
</tr>
<tr>
<td>7</td>
<td>1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.</td>
<td></td>
<td>No</td>
<td>5</td>
</tr>
<tr>
<td>8</td>
<td>P-6000 Automatic sanitizing booth or similar approved.</td>
<td></td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Supply and install floor mounted non moving chairs, size: 520 x 500mm, backrest height: 515mm</td>
<td></td>
<td>No</td>
<td>33</td>
</tr>
<tr>
<td>10</td>
<td>Macally clear protective keyboard cover, or similar approved.</td>
<td></td>
<td>No</td>
<td>12</td>
</tr>
<tr>
<td>11</td>
<td>12L Pedal operated polypropylene sanitary bin satin, size: 463 x 140 x 480mm</td>
<td></td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>12</td>
<td>200 x 150mm International instruction signs suitable for outside</td>
<td></td>
<td>No</td>
<td>5</td>
</tr>
<tr>
<td>13</td>
<td>150 x 150mm International instruction signs suitable for inside</td>
<td></td>
<td>No</td>
<td>4</td>
</tr>
<tr>
<td>14</td>
<td>Allow an amount of Five Thousand rand for Covid-19 awareness signage</td>
<td></td>
<td>Item</td>
<td></td>
</tr>
</tbody>
</table>

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

Section No. 5
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

*60-*
BILL NO. 2

METALWORK

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

GENERALLY:

Descriptions of bolts, anchors, etc

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

Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

Carried Forward

Section No.  5
Bill No.  3
Metalwork

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brought Forward</strong></td>
<td>Items described as &quot;plugged&quot; shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>GATES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Metal gates</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Single gate size 900 x 1 813mm high, complete with hinges, barrel bolt etc</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td><strong>SUNDRIES</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Chain</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Supply and install light duty chain on existing metal poles for human traffic control</td>
<td>m</td>
<td>30</td>
</tr>
</tbody>
</table>

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

Section No. 5
Bill No. 3
Metalwork
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

BILL NO. 3

IRONMONGERY

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

BATHROOM FITTINGS

"IW" or equal and approved fixed to timber

1  Code IW7015SS wall mounted soap dispenser plugged
    No  8

2  2.5kW Automatic electric stainless steel hand dryer (270 x 240 x 200mm), fully automatic with the following: a) an airspeed of 30m/s, b) a maintenance free motor capacitor initiated quick starts, c) vending resistant features that include temper proof bolts, d) a side mounted heating element inaccessible through the nozzle, e) satin finish stainless steel, f) 1-year warranty
    No  8

Carried Forward to Summary of Section No. 5

Section No.  5
Bill No.  4
Ironmongery
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-63-
BILL NO. 4

PLUMBING & DRAINAGE (MEASURED PROVISIONALLY)

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No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

Sealing of edges:

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.

Carried Forward

Section No. 5
Bill No. 5
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**Brought Forward**

**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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% 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).

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).

**REPLACE DAMAGED SANITARY FITTINGS**

Carefully take out and remove damaged sanitary fitting, replace with new including effecting all existing brackets, couplings, connections and re-fixing existing taps, valves, etc. making good existing finishers as necessary and leave in good working order.

Econo pans - Low cost "Housing" Flats, Old Age Homes, Hostels, RDP etc

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Replace WC Heavy duty seat cover</td>
<td>8</td>
</tr>
</tbody>
</table>

**Carried Forward**

Section No. 5
Bill No. 5
Plumbing & Drainage (Measured Provisionally)

*Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD*
Brought Forward

<table>
<thead>
<tr>
<th>Description</th>
<th>No</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vitreous China Sanitaryware - &quot;Vaal&quot; or equally approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 9 litre cistern complete with lid, top dual push button and fitments</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>3 Seal leaking uPVC or cast iron WC pan connector joint</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>4 Replace 15mm leaking tap or stoptap washer including spindle gland packing</td>
<td>No</td>
<td>6</td>
</tr>
</tbody>
</table>

REPLACE DAMAGED TAPS, VALVES, ETC.

SUNDRIES

REPLACE DAMAGED ELECTRIC WATER HEATERS AND ACCESSORIES

KWIKOT OR EQUIVALENT: Geyser with a 5-year warranty

Carried Forward

Section No. 5
Bill No. 5
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locate damage, isolate affected area including draining existing geyser, uncoupling water and electrical connection, lift and remove where required and replace with new geyser and / or accessories complete with re-fitting connections and bond to earth, all fixings, mountings brackets, etc. and leave in good working order.</td>
<td></td>
</tr>
<tr>
<td>5 200 Litre standard high pressure universal wall or roof void mounted water heater complete with connection points for water inlet and outlet, safety valve connection point, sacrificial anode, spiral element and adjustable thermostat, drip tray, vacuum breakers (all other accessories elsewhere).</td>
<td>No 1</td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 5

Section No. 5
Bill No. 5
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
## JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

### BILL NO. 5

**ELECTRICAL WORK**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

### SUPPLEMENTARY PREAMBLES

**Distribution boards etc:**

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 Switches, socket outlets, etc.

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates.

---

Carried Forward

**ZAR**

Section No. 5
Bill No. 6
Electrical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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Brought Forward

Switches, socket outlets, etc

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates

Light fittings

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

LUMINAIRES AND EQUIPMENT

Supply and install luminaires or equipment complete with lamps, connections, etc mounted in position indicated on the drawing

1 Linear 2 x 58W Channel fluorescent complete with electronic control gear equal to Lascon R258 Channel

No 4

2 Replace tubes for Linear 2 x 58W Channel fluorescent light fittings.

No 4

Switches, etc complete with cover plate fixed on power skirting/ or walls

3 16A One-lever one-way switch

No 2

4 16A Three-pin switched socket outlet

No 5

Carried Forward to Summary of Section No. 5

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**BILL NO. 6**

**MECHANICAL WORK**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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**SUPPLEMENTARY PREAMBLES**

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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.

**AIR CONDITIONING INSTALLATION**

---

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

Carried Forward

Section No. 5  
Bill No. 7  
Mechanical Work  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
## Airconditioning

<table>
<thead>
<tr>
<th></th>
<th>Allow for a provisional amount of Twenty Eight Thousand for the refurbishment and repairs of existing air-conditioning units, including issuing COCs.</th>
</tr>
</thead>
</table>

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

- **Section No. 5**
- **Bill No. 7**
- **Mechanical Work**

*Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD*
<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 7**

**GLAZING**

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- **Float glass**
  - The term "float glass" is used for monolithic annealed glass

- **Laminated glass**
  - Laminated glass to have polyvinyl butyral (PVB) interlayer(s)

**GLAZING TO ALUMINIUM WITH CLIP ON BEADS (BEADS MEASURED ELSEWHERE)**

Carried Forward

Section No. 5
Bill No. 8
Glazing

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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**Brought Forward**

<table>
<thead>
<tr>
<th>Description</th>
<th>Units</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vinyl films and tinting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1 Vinyl film to glazing</td>
<td>m²</td>
<td>6</td>
</tr>
<tr>
<td>5mm 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.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Mirror 400 x 400mm high with four screws</td>
<td>No</td>
<td>8</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>8</td>
<td>Glazing</td>
<td></td>
</tr>
</tbody>
</table>

ZAR
BILL NO. 8

TILING

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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SUPPLEMENTARY PREAMBLES

Fixing:

Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.

Ceramic, porcelain, marble and granite tiles are to be fixed and grouted with suitable adhesives and grouts as recommended by the manufacturer of the tiles.

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

Carried Forward

Section No. 5
Bill No. 9
Tiling
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

ZAR
### WALL TILES

10mm Ceramic tiling with a Prime Cost of R200 per square metre including approved adhesive, grouting (colour to Project Manager's specification), necessary floor patching and preparation work to receive new finish, expansion joints, cutting and waste, all to the satisfaction of the principal agent, complete, to:

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>On walls.</td>
<td>m²</td>
<td>2</td>
</tr>
</tbody>
</table>

---

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

Section No. 5
Bill No. 9
Tiling

**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
# BILL NO. 9

## PROVISIONAL SUMS

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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## GENERALLY:

Prime cost amounts and provisional sums are net. Prime cost amounts shall include for delivery to site of all articles concerned. Provisional sums are for material and equipment supplied and installed complete by firms of specialists Profit.

Where stated, the contractor may allow for profit if required.

The item "attendance" which follows each provisional sum for nominated/selected subcontractors' work, shall be deemed to cover all the contractor's costs incurred in providing free of charge to the nominated/selected subcontractors the contractor's duties as described in clause 12.2 of the JBCC N/S Subcontract Agreement.

### Carried Forward

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

Section No. 5
Bill No. 10
Provisional Sums

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
Special attendance on nominated/selected subcontractors:

Where "special attendance" such as unloading, storing, placing in position, providing special power supplies, specific hoisting, craneage and scaffolding requirements, provision of temporary casing and/or other specific protection of the works, special security and clearing away rubbish is required, a separate item describing the specific requirements in detail is to be provided for the pricing of such requirements Builder's work.

Builder's work in connection with specialist services is given elsewhere in these bills of quantities.

PROVISIONAL SUMS

GUARD HOUSE

1 Allow an amount of Eighteen Thousand for the construction of a 2500 x 2500mm Wwenda hut complete.

TURNSTILES

2 Allow an amount of Fifteen Thousand for the supply and installation of pedestrian turnstile, exit only.
<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>60</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Metalwork</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ironmongery</td>
<td>63</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Plumbing &amp; Drainage (Measured Provisionally)</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Electrical Work</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Mechanical Work</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>Glazing</td>
<td>73</td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>Tiling</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Provisional Sums</td>
<td>77</td>
<td></td>
</tr>
</tbody>
</table>

Carried to Final Summary

Section No. 5
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

ZAR

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**BILL NO. 1**

**PRELIMINARIES & GENERAL**

**MINOR WORKS AGREEMENT**

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

**PRELIMINARIES**

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

**PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS**

1. **Fixed**
   - 1. Preliminaries cost which shall be a fixed amount

2. **Value Related**
   - 2. Preliminaries cost which shall be varied in accordance with the value of the works

3. **Time Related**
   - 3. Preliminaries cost which shall be varied in accordance with the duration of the contract

---

**Carried Forward to Summary of Section No. 6**

Section No.  6  
Bill No.  1  
Preliminaries & General

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

---

ZAR
BILL NO. 1

COVID-19 SAFETY INSTALLATIONS

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

All work shall proceed under strict supervision of the Project Manager.

SOCIAL DISTANCING MARKING

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>48mm Wide Altezze floor marking red tape</td>
<td>m</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Blank out chairs with 48mm Altezze red tape.</td>
<td>No</td>
<td>24</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward

Section No.  6
Bill No.  2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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### SOCIAL DISTANCING DIVISIONS

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.</td>
<td>m²</td>
<td>8</td>
</tr>
</tbody>
</table>

### FITTINGS

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>8</td>
<td>P-6000 Automatic sanitizing booth or similar approved.</td>
<td>No</td>
<td>1</td>
</tr>
<tr>
<td>9</td>
<td>170 x 300 x 150mm Stand fixed to the wall made of 8mm steel bars to accommodate hand and surface wipe dispenser</td>
<td>No</td>
<td>2</td>
</tr>
</tbody>
</table>

### CLEANING

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td>Deep clean entire building and fumigate</td>
<td>m²</td>
<td>700</td>
</tr>
</tbody>
</table>

### SUNDRIES

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Unit</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Macally clear protective keyboard cover, or similar approved.</td>
<td>No</td>
<td>15</td>
</tr>
<tr>
<td>12</td>
<td>12L Pedal operated polypropylene sanitary bin satin, size: 463 x 140 x 480mm</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>13</td>
<td>200 x 150mm International instruction signs suitable for outside</td>
<td>No</td>
<td>2</td>
</tr>
</tbody>
</table>
**BUDGETARY AMOUNT**

<table>
<thead>
<tr>
<th>Item</th>
<th>Allow an amount of Five Thousand rand for Covid-19 awareness signage</th>
</tr>
</thead>
</table>

Carried Forward to Summary of Section No. 6

Section No. 6
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

**BILL NO. 2**

**METALWORK**

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**GENERALLY:**

Descriptions of bolts, anchors, etc

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

Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described

Carried Forward

Section No. 6
Bill No. 3
Metalwork

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres

Aluminium doors, windows, etc

Doors and windows shall comply with AAAMSA design criteria.

Glazing shall comply with SAGGA regulations. Glass shall be as shown on the window schedules/drawings appended to these bills of quantities. Glass thickness shall comply with SAGGA regulations irrespective of thicknesses shown on the schedules/drawings.

Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.

For purpose made windows and doors, refer to drawings annexed to these bills of quantities.

The following certificates shall be provided prior to commencement of site work:

A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product

A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively;
Brought Forward

A powder guarantee of not less than 15 years issued by the powder manufacturer. The specific conditions contained in this guarantee shall form part of the powder coating process;

A Certificate of Conformance confirming that glazing has been installed in accordance with SANS 0137, ensuring that safety glazing materials have been installed in the mandatory areas and that each individual pane of safety glazing materials has been permanently marked;

A warranty from the manufacturer of the laminated safety glass and/or hermetically sealed glazing units guaranteeing the products against delamination and colour degradation for a period of not less than five years.

### PRESSES STEEL DOORS

### SOLID DOORS

**Strong room door**

1 Service existing strong room door by replacing, fixing, adjusting all broken or loose door components, including lockset complete and leave in good working condition.

### ALUMINIUM SHOPFRONTS COMPLETE WITH GLAZING, HANDLES AND ALL ACCESSORIES
2020/05/29

**JMPD VEHICLE TESTING STATIONS - 8 STATIONS**

**COVID-19 SAFETY INSTALLATION PROJECTS**

**CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT**

**2019**

<table>
<thead>
<tr>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
</table>

**ALUMINIUM DOORS**

2. Service existing aluminium door by replacing, fixing, adjusting all broken or loose door components, including lockset complete and leave in good working condition.

| No | 1 |

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**Carried Forward to Summary of Section No. 6**

Section No. 6
Bill No. 3
Metalwork

*Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD*
# BILL NO. 3

## IRONMONGERY

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## LOCKS

"Union" or equal and approved fixed to timber

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## BATHROOM FITTINGS

"IW" or equal and approved fixed to timber

<table>
<thead>
<tr>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 6

<table>
<thead>
<tr>
<th>ZAR</th>
</tr>
</thead>
</table>

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### BILL NO. 4

**PLUMBING & DRAINAGE (MEASURED PROVISIONALLY)**

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No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

### SUPPLEMENTARY PREAMBLES

**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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% Mod AASHTO density and disposal of surplus material on site.

---

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward

---

Section No. 6
Bill No. 5
Plumbing & Drainage (Measured Provisionally)

**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
Brought Forward

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).

CLEAR GUTTER BLOCKAGE / DEBRIS

Clean out gutters by removing all silt, etc. including rodding where necessary, leaving all surfaces free from any dirt or debris including lifting and refixing grille covers where required and disposal of all removed material.

Gutters not exceeding 3m above base level

1 Eaves or box gutter not exceeding 200mm wide m 224

REPLACE DAMAGED SANITARY FITTINGS

Carefully take out and remove damaged sanitary fitting, replace with new including effecting all existing brackets, couplings, connections and re-fixing existing taps, valves, etc. making good existing finishers as necessary and leave in good working order.

Econo pans - Low cost "Housing" Flats, Old Age Homes, Hostels, RDP etc

Carried Forward

Section No. 6
Bill No. 5
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
# Brought Forward

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Replace WC Heavy duty double flap plastic seat</td>
<td>No 1</td>
</tr>
<tr>
<td>3</td>
<td>Replace WC Heavy duty seat cover</td>
<td>No 1</td>
</tr>
<tr>
<td>4</td>
<td>Replace paraplegic toilet flushing valve mechanism complete with rubber washers, etc.</td>
<td>No 2</td>
</tr>
<tr>
<td>5</td>
<td>Replace flushing valve mechanism complete with rubber washers, etc.</td>
<td>No 1</td>
</tr>
<tr>
<td>6</td>
<td>9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)</td>
<td>No 2</td>
</tr>
</tbody>
</table>

## REPLACE DAMAGED TAPS, VALVES, ETC.

Carefully take out and remove damaged item, replace with new including handle styles to match existing, washers, flanges, capnuts, couplers, etc. and making good existing finishers as necessary.

**Brass**

- Cobra or equivalent Brass Check Valve

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>15mm Brass Check valve &quot;Code 1022-15&quot;</td>
<td>No 2</td>
</tr>
</tbody>
</table>
# COVID-19 SAFETY INSTALLATION PROJECTS

## JMPD VEHICLE TESTING STATIONS - 8 STATIONS

**CLIENT:** JOHANNESBURG METROPOLITAN POLICE DEPARTMENT

2019

### SUNDRIES

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Seal leaking uPVC or cast iron WC pan connector joint</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>9</td>
<td>Attend to, fix leaking waste union and tighten backnut</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>10</td>
<td>Replace 15mm leaking tap or stop tap washer including spindle gland packing</td>
<td>No</td>
<td>2</td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 6

---

**Section No. 6**

**Bill No. 5**

Plumbing & Drainage (Measured Provisionally)

**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
BILL NO. 5

ELECTRICAL WORK

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

Distribution boards etc:

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 Switches, socket outlets, etc.

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates.

Carried Forward

Section No. 6
Bill No. 6
Electrical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switches, socket outlets, etc</td>
<td>Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates</td>
<td></td>
</tr>
<tr>
<td>Light fittings</td>
<td>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</td>
<td></td>
</tr>
</tbody>
</table>

### POWER SKIRTING

<table>
<thead>
<tr>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply and install 2 compartment skirting, colour to match existing</td>
<td>m</td>
<td>15</td>
</tr>
<tr>
<td>Draw wire</td>
<td>m</td>
<td>20</td>
</tr>
</tbody>
</table>

### LUMINAIRES AND EQUIPMENT

Supply and install luminaires or equipment complete with lamps, connections, etc mounted in position indicated on the drawing

<table>
<thead>
<tr>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>28W LED Spot lights</td>
<td>No 13</td>
</tr>
<tr>
<td>Linear 2 x 58W Channel fluorescent complete with electronic control gear equal to Lascon R258 Channel</td>
<td>No 20</td>
</tr>
</tbody>
</table>

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
Brought Forward

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>No</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>Replace tubes for Linear 2 x 58W Channel fluorescent light fittings.</td>
<td></td>
<td>28</td>
</tr>
<tr>
<td></td>
<td>Switches, etc complete with cover plate fixed on power skirting/ or walls</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>16A One-lever one-way switch</td>
<td></td>
<td>4</td>
</tr>
<tr>
<td>7</td>
<td>16A Three-pin switched socket outlet</td>
<td></td>
<td>10</td>
</tr>
</tbody>
</table>

PROVISIONAL SUMS

<table>
<thead>
<tr>
<th></th>
<th>Description</th>
<th>SUM</th>
</tr>
</thead>
<tbody>
<tr>
<td>8</td>
<td>Allow a provisional sum of Twenty Thousand for fault finding and fixing external light fittings (aerial lights), etc</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 6

ZAR

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

BILL NO. 6

MECHANICAL WORK

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SUPPLEMENTARY PREAMBLES

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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.

AIR CONDITIONING INSTALLATION

Carried Forward

Section No. 6
Bill No. 7
Mechanical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### JMPD VEHICLE TESTING STATIONS - 8 STATIONS

**COVID-19 SAFETY INSTALLATION PROJECTS**

**CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT**

2019

<table>
<thead>
<tr>
<th>Brought Forward</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Airconditioning</strong></td>
<td></td>
</tr>
<tr>
<td>1 Repair 12000 BTU Wall mounted unit with condenser section mounted on external wall</td>
<td></td>
</tr>
</tbody>
</table>

| No | 12 |

---

**Carried Forward to Summary of Section No. 6**

Section No. 6
Bill No. 7
Mechanical Work

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

-96-
## SECTION SUMMARY - Section Six - DUBE VEHICLE TESTING CENTRE

<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>79</td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>82</td>
</tr>
<tr>
<td>3</td>
<td>Metalwork</td>
<td>86</td>
</tr>
<tr>
<td>4</td>
<td>Ironmongery</td>
<td>87</td>
</tr>
<tr>
<td>5</td>
<td>Plumbing &amp; Drainage (Measured Provisionally)</td>
<td>91</td>
</tr>
<tr>
<td>6</td>
<td>Electrical Work</td>
<td>94</td>
</tr>
<tr>
<td>7</td>
<td>Mechanical Work</td>
<td>96</td>
</tr>
</tbody>
</table>

Carried to Final Summary

Section No. 6
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
BILL NO. 1

PRELIMINARIES & GENERAL

MINOR WORKS AGREEMENT

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

PRELIMINARIES

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

Fixed

1 Preliminaries cost which shall be a fixed amount

Value Related

2 Preliminaries cost which shall be varied in accordance with the value of the works

Time Related

3 Preliminaries cost which shall be varied in accordance with the duration of the contract

Carried Forward to Summary of Section No. 7

Section No. 7
Bill No. 1
Preliminaries & General
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### COVID-19 SAFETY INSTALLATIONS

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### SUPPLEMENTARY PREAMBLES

All work shall proceed under strict supervision of the Project Manager.

### SOCIAL DISTANCING MARKING

<table>
<thead>
<tr>
<th>Item No</th>
<th>Description</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>48mm Wide Altezze floor marking red tape</td>
<td>m</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>150 x 150mm plastic social distancing marker to be tapped on to the floor</td>
<td>No</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>250mm Diameter solid circle with road marking paint.</td>
<td>No</td>
<td>46</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Cover urinal and wash hand basins with 250 micron plastic, including taping edges.</td>
<td>No</td>
<td>2</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Blank out chairs with 48mm Altezze red tape</td>
<td>No</td>
<td>40</td>
<td></td>
</tr>
</tbody>
</table>

**Carried Forward**

Section No. 7  
Bill No. 2  
Covid-19 Safety Installations  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th></th>
<th>SOCIAL DISTANCING DIVISIONS</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>METAL FITTINGS</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
</tr>
<tr>
<td>8</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SUNDRIES</th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
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</table>

<table>
<thead>
<tr>
<th>BUDGETARY AMOUNT</th>
</tr>
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<tbody>
<tr>
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</table>

Carried Forward to Summary of Section No. 7

Section No.  7
Bill No.  2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
2020/05/29

JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
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</thead>
</table>

BILL NO. 2

CARPENTRY & JOINERY

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SUPPLEMENTARY PREAMBLES

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

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

TIMBER DOORS

Carried Forward

ZAR

Section No. 7
Bill No. 3
Carpentry & Joinery
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### Brought Forward

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Wrought Meranti doors hung to steel frames</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>44mm Framed batten door 900 x 2032mm high of 44 x 100mm top rail and stiles, 44 x 100mm middle ledge and braces and 44 x 100mm bottom rail filled in with 70mm V-jointed one side boarding and covered on other side with 3,2mm plywood with veneer to match door let into and including rebates all round, including door hardware and paint decoration</td>
</tr>
</tbody>
</table>

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**Carried Forward to Summary of Section No. 7**

Section No. 7  
Bill No. 3  
Carpentry & Joinery  
**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
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"Union" or equal and approved fixed to timber

1 Three lever lockset (2 Keys) with striking plate fixed to metal Ref. CZ682-24-52CH / SC. Lockset with lock, handles and keys, complete

"IW" or equal and approved fixed to timber

2 Code IW7015SS wall mounted soap dispenser plugged

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>BILL NO. 3</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>IRONMONGERY</td>
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<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LOCKS</td>
<td></td>
<td></td>
<td></td>
</tr>
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<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>BATHROOM FITTINGS</td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>
| Carried Forward to Summary of Section No. 7 | }
### BILL NO. 4

**PLUMBING & DRAINAGE (MEASURED PROVISIONALLY)**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

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### SUPPLEMENTARY PREAMBLES

**Sealing of edges:**

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.

**PVC-U 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.

---

Carried Forward

ZAR

Section No. 7  
Bill No. 5  
Plumbing & Drainage (Measured Provisionally)  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
PVC-U pressure pipes and fittings:

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U 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 PVC-U and all other fittings shall be cast iron, all with similar push-in type joints.

High density polyethylene (HDPe) pipes and fittings:

Pipes shall be type IV and of the class specified with compression fittings Polypropylene pipes.

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings. Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.
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. 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.

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.

Petrolatum anti-corrosion tape:

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions.

Prices for wrapping of pipes shall include for all work as described to couplings in the length.

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 the relevant section of SANS 2001.
**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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% 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).

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).

**REPLACE DAMAGED SANITARY FITTINGS**

Carefully take out and remove damaged sanitary fitting, replace with new including effecting all existing brackets, couplings, connections and re-fixing existing taps, valves, etc, making good existing finishers as necessary and leave in good working order.

Econo pans - Low cost "Housing" Flats, Old Age Homes, Hostels, RDP etc

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Replace WC Heavy duty seat cover</td>
</tr>
</tbody>
</table>

**Carried Forward**

Section No. 7
Bill No. 5
Plumbing & Drainage (Measured Provisionally)

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brought Forward</strong></td>
<td></td>
<td>ZAR</td>
</tr>
<tr>
<td>Vitreous China Sanitaryware - &quot;Vaal&quot; or equally approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2 Refurbish existing stand-alone urinal</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>3 700 x 400 mm Vitreous china wall hung urinal</td>
<td>No</td>
<td>2</td>
</tr>
<tr>
<td>4 9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)</td>
<td>No</td>
<td>4</td>
</tr>
</tbody>
</table>

**REPLACE DAMAGED TAPS, VALVES, ETC.**

Chromium plated - Heavy pattern SABS 226 - 1987 - Class 1

"Cobra Watertech" or equally approved

5 Stella 15mm Raised nose pillartap - 3314SB including flexi pipe | No | 4 |

---

**Carried Forward to Summary of Section No. 7**

Section No. 7
Bill No. 5
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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BILL NO. 5

ELECTRICAL WORK

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

Distribution boards etc:

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 Switches, socket outlets, etc.

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates.

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

Carried Forward

ZAR
# JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

## Brought Forward

<table>
<thead>
<tr>
<th></th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switches, socket outlets, etc</td>
<td></td>
</tr>
</tbody>
</table>

Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates

**Light fittings**

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

### LUMINAIRES AND EQUIPMENT

Supply and install luminaires or equipment complete with lamps, connections, etc mounted in position indicated on the drawing

<table>
<thead>
<tr>
<th>No</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Linear 2 x 58W Channel fluorescent complete with electronic control gear equal to Lascon R258 Channel</td>
<td>8</td>
</tr>
<tr>
<td>2</td>
<td>Cover for linear 2 x 58W Channel fluorescent</td>
<td>14</td>
</tr>
<tr>
<td>3</td>
<td>Replace tubes for Linear 2 x 58W Channel fluorescent light fittings.</td>
<td>46</td>
</tr>
</tbody>
</table>

## Carried Forward to Summary of Section No. 7

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Section No. 7</td>
<td></td>
</tr>
<tr>
<td>Bill No. 6</td>
<td></td>
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<tr>
<td>Electrical Work</td>
<td></td>
</tr>
</tbody>
</table>

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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-111-
<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
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</thead>
</table>

**BILL NO. 6**

**MECHANICAL WORK**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and any Supplementary Preambles to the Model Preambles will be granted.

**SUPPLEMENTARY PREAMBLES**

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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

**AIR CONDITIONING INSTALLATION**

Carried Forward

Section No. 7
Bill No. 7
Mechanical Work
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Brought Forward</th>
<th>ZAR</th>
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</thead>
<tbody>
<tr>
<td><strong>Airconditioning</strong></td>
<td></td>
</tr>
<tr>
<td>1 Repair 12000 BTU Wall mounted unit with condensor section mounted on external wall</td>
<td>No</td>
</tr>
<tr>
<td><strong>Fire Protection</strong></td>
<td></td>
</tr>
<tr>
<td>2 Refurbish and service existing CO2 fire extinguishers</td>
<td>No</td>
</tr>
</tbody>
</table>

**Carried Forward to Summary of Section No. 7**

Section No. 7  
Bill No. 7  
Mechanical Work  
**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Carpentry &amp; Joinery</td>
<td>102</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Ironmongery</td>
<td>103</td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>Plumbing &amp; Drainage (Measured Provisionally)</td>
<td>109</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>Electrical Work</td>
<td>111</td>
<td></td>
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<tr>
<td>7</td>
<td>Mechanical Work</td>
<td>113</td>
<td></td>
</tr>
</tbody>
</table>

Carried to Final Summary

Section No. 7
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
BILL NO. 1

PRELIMINARIES & GENERAL

MINOR WORKS AGREEMENT

The JBCC Minor Works Agreement (March 2014 Fifth 5.1) prepared by the Joint Building Contract Committee shall be the applicable building agreement, amended as hereinafter described.

PRELIMINARIES

The ASAQS Preliminaries (March 2014 edition 5.1) published by the Association of South African Quantity Surveyors for use with the said JBCC Minor Works Agreement shall be deemed to be incorporated in these bills of quantities.

PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS

Fixed

1 Preliminaries cost which shall be a fixed amount

Item

Value Related

2 Preliminaries cost which shall be varied in accordance with the value of the works

Item

Time Related

3 Preliminaries cost which shall be varied in accordance with the duration of the contract

Item

Carried Forward to Summary of Section No. 8

Section No. 8
Bill No. 1
Preliminaries & General
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

ZAR
2020/05/29

JMPD VEHICLE TESTING STATIONS - 8 STATIONS
COVID-19 SAFETY INSTALLATION PROJECTS
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
<thead>
<tr>
<th>Item No</th>
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<th>Rate</th>
<th>Amount</th>
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</thead>
<tbody>
<tr>
<td>BILL NO. 1</td>
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<td></td>
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</tbody>
</table>

COVID-19 SAFETY INSTALLATIONS

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

All work shall proceed under strict supervision of the Project Manager.

SOCIAL DISTANCING MARKING

1. 48mm Wide Altezze floor marking red tape m 50
2. 150 x 150mm plastic social distancing marker to be tapped on to the floor No 40
3. Blank out chairs with 48mm Altezze red tape. No 16

Carried Forward

Section No. 8
Bill No. 2
Covid-19 Safety Installations
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### SOCIAL DISTANCING DIVISIONS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5mm Free standing perspex sneeze guard/screen with slide on stands/legs, cut to accommodate fittings, services and equipments.</td>
<td>m²</td>
<td>33</td>
<td></td>
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</table>

### FITTINGS

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>1524mm High foot operated aluminium hand sanitizing dispenser stand, with signage above, signage size: 215mm wide x 280mm high.</td>
<td>No</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>P-6000 Automatic sanitizing booth or similar approved.</td>
<td>No</td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

### SUNDRIES

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>Macally clear protective keyboard cover, or similar approved.</td>
<td>No</td>
<td>3</td>
</tr>
<tr>
<td>8</td>
<td>12L Pedal operated polypropylene sanitary bin satin, size: 463 x 140 x 480mm</td>
<td>No</td>
<td>4</td>
</tr>
<tr>
<td>9</td>
<td>200 x 150mm International instruction signs suitable for outside</td>
<td>No</td>
<td>6</td>
</tr>
<tr>
<td>10</td>
<td>150 x 150mm International instruction signs suitable for inside</td>
<td>No</td>
<td>6</td>
</tr>
</tbody>
</table>

### BUDGETARY AMOUNT

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Cost</th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td>Allow an amount of Five Thousand rand for Covid-19 awareness signage</td>
<td>Item</td>
</tr>
</tbody>
</table>

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**Carried Forward to Summary of Section No. 8**

Section No. 8  
Bill No. 2  
Covid-19 Safety Installations  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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### BILL NO. 2

**PLUMBING & DRAINAGE (MEASURED PROVISIONALLY)**

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and the Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and Supplementary Preambles to the Model Preambles will be granted.

### SUPPLEMENTARY PREAMBLES

Sealing of edges:

Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.

PVC-U 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.

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### Carried Forward

<table>
<thead>
<tr>
<th>Item No</th>
<th>Quantity</th>
<th>Rate</th>
<th>Amount</th>
</tr>
</thead>
</table>

Section No. 8  
Bill No. 3  
Plumbing & Drainage (Measured Provisionally)  
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD  

---

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PVC-U pressure pipes and fittings:

Pipes of 50mm diameter and smaller shall be plain ended with solvent welded PVC-U 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 PVC-U and all other fittings shall be cast iron, all with similar push-in type joints.

High density polyethylene (HDPe) pipes and fittings:

Pipes shall be type IV and of the class specified with compression fittings Polypropylene pipes.

Polypropylene pipes 54mm diameter and smaller shall be seamless copper coloured Class 16 pipes jointed with heat welded thermoplastic or where so described compression fittings. Pipes shall be firmly fixed to walls, etc with coloured nylon snap-in pipe clips with provision for accommodating thermal movement and jointed and fixed strictly in accordance with the manufacturer's instructions.
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. 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.

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.

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Disinfection of water pipework:

Water pipework is to be disinfected at completion.

Petrolatum anti-corrosion tape:

Pipes to be taped shall be coated with the appropriate primer and the tape shall be applied in the appropriate widths and with overlaps. Couplings and fittings to pipes shall be taped in strict accordance with the manufacturer's instructions.

Prices for wrapping of pipes shall include for all work as described to couplings in the length.

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 the relevant section of SANS 2001.
Brought Forward

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, catchpits, etc shall be deemed to include excavation, bedding, backfilling, compaction to a minimum of 95% 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).

Descriptions of WC pans, slop hoppers, etc shall be deemed to include for joints to soil pipes (pan connectors are separately measured).

CLEAR SEWER AND WASTE WATER BLOCKAGE

Locate blockage, clear waste pipes by means of rodding distances between access eyes/open end (referred to as "Pipe Length") not exceeding 2m and removing all obstructions, etc. leaving pipes open and free flowing including disposal of all materials causing blockage.

Septic tank

Carried Forward

Section No. 8
Bill No. 3
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
**JMPD VEHICLE TESTING STATIONS - 8 STATIONS**  
**COVID-19 SAFETY INSTALLATION PROJECTS**  
**CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT**  
2019

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Empty and clear septic tank</td>
<td></td>
</tr>
<tr>
<td><strong>REPLACE DAMAGED SANITARY FITTINGS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Carefully take out and remove damaged sanitary fitting, replace with new including effecting all existing brackets, couplings, connections and re-fixing existing taps, valves, etc. making good existing finishers as necessary and leave in good working order.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Econo pans - Low cost &quot;Housing&quot; Flats, Old Age Homes, Hostels, RDP etc</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Replace WC Heavy duty double flap plastic seat and cover</td>
<td>No 2</td>
</tr>
<tr>
<td><strong>Vitreous China Sanitaryware - &quot;Vaal&quot; or equally approved</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>550 x 400mm (approximately) wash hand basin</td>
<td>No 2</td>
</tr>
<tr>
<td>4</td>
<td>9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)</td>
<td>No 2</td>
</tr>
<tr>
<td>5</td>
<td>&quot;Daisy&quot; white vitreous china WC semi-close coupled pan (code 774717) with matching 9litre cistern (code 710034) and white double flap plastic seat</td>
<td>No 2</td>
</tr>
<tr>
<td>6</td>
<td>Replace semi-close coupled cistern PVC flush pipe bend, rubber pan connector and seals</td>
<td>No 4</td>
</tr>
</tbody>
</table>

**Carried Forward**

**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**

*Bill No. 3  
Plumbing & Drainage (Measured Provisionally)*
## REPLACE DAMAGED TAPS, VALVES, ETC.

Carefully take out and remove damaged item, replace with new including handle styles to match existing, washers, flanges, capnuts, couplers, etc. and making good existing finishers as necessary.

### Brass

Cobra or equivalent Brass Check Valve

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>7</td>
<td>15mm Brass Check valve &quot;Code 1022-15&quot;</td>
<td>No 4</td>
</tr>
</tbody>
</table>

### SUNDRIES

8. Attend to, fix leaking waste union and tighten backnut

<p>| | | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>8</td>
<td></td>
<td>No 2</td>
</tr>
</tbody>
</table>

9. Replace 15mm leaking tap or stop tap washer including spindle gland packing

<p>| | | |</p>
<table>
<thead>
<tr>
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<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>9</td>
<td></td>
<td>No 2</td>
</tr>
</tbody>
</table>

10. Replace leaking or damaged rubber flushpipe connector

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>10</td>
<td></td>
<td>No 2</td>
</tr>
</tbody>
</table>

11. Seal leaking uPVC or cast iron WC pan connector joint

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>11</td>
<td></td>
<td>No 2</td>
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</tbody>
</table>

## REPLACE DAMAGED SOIL, SEWER, WASTE, VENT PIPE AND FITTINGS

### PVC-U SOIL, SEWERAGE

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Carried Forward</td>
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</table>

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Section No. 8
Bill No. 3
Plumbing & Drainage (Measured Provisionally)
**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**
### Brought Forward

<table>
<thead>
<tr>
<th>Description</th>
<th>No</th>
<th>Rate</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>Supply and install PVC-U class 51 - 100kPa Normal duty pipes, alteration, bedding and backfill measured elsewhere</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Extra over uPVC pipes for fittings</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>110mm Bend</td>
<td>2</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### REPLACE DAMAGED UNDERGROUND WATER PIPE AND FITTINGS

Locate, isolate affected area, excavate for and replace damage to High Density Polyethylene (HDPE) water supply line and / or fittings in landscaped areas not exceeding 1m deep including backfilling, compacting, etc. and leave in good working order.

Class 12 not exceeding 1.5m deep

Plasson compression fittings

<table>
<thead>
<tr>
<th>Description</th>
<th>No</th>
<th>Rate</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td>25mm fittings</td>
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<td></td>
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</tbody>
</table>

### Carried Forward to Summary of Section No. 8

Section No. 8
Bill No. 3
Plumbing & Drainage (Measured Provisionally)
Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD

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CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT
2019

<table>
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<tr>
<td>BILL NO. 3</td>
<td></td>
<td></td>
<td></td>
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</table>

MECHANICAL WORK

The Contractor must read each description throughout this bill of quantities in conjunction with and in the context of the obligations, requirements and specifications stated in the descriptions, the Model Preambles for Trades (2008 edition) and any Supplementary Preambles to the Model Preambles forming part of these Bills of Quantities.

No claim arising from brevity of description of items fully described in the said Model Preambles for Trades and any Supplementary Preambles to the Model Preambles will be granted.

SUPPLEMENTARY PREAMBLES

Specifications, drawings, etc

Tenderers are referred to the specification and/or drawings prepared by the mechanical engineer, annexed to these bills of quantities (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

PROVISIONAL SUMS

Airconditioning

1 Repair 12000 BTU Wall mounted unit with condensor section mounted on external wall

Carried Forward ZAR

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
<table>
<thead>
<tr>
<th>Item</th>
<th>Brought Forward</th>
<th>ZAR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Fire Protection</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Allow a provisional amount of Five Thousand for refurbishing any defective fire protection equipment, including issuing COCs.</td>
<td></td>
</tr>
</tbody>
</table>

Carried Forward to Summary of Section No. 8

Section No. 8
Bill No. 4
Mechanical Work
*Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD*
### SECTION SUMMARY - Section Eight - RANDBURG VEHICLE TESTING CENT

<table>
<thead>
<tr>
<th>Bill No</th>
<th>Description</th>
<th>Page No</th>
<th>Amount</th>
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<tbody>
<tr>
<td>1</td>
<td>Preliminaries &amp; General</td>
<td>115</td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>Covid-19 Safety Installations</td>
<td>117</td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>Plumbing &amp; Drainage (Measured Provisionally)</td>
<td>125</td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Mechanical Work</td>
<td>127</td>
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</tr>
</tbody>
</table>

Carried to Final Summary

Section No. 8

Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD
### FINAL SUMMARY

<table>
<thead>
<tr>
<th>Section No</th>
<th>Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>ZAR181 649.89 for quantity surveying fees (Bills of Quantities production)</td>
</tr>
<tr>
<td>2</td>
<td>ZAR128 365.92 for project management fees during project implementation</td>
</tr>
<tr>
<td>3</td>
<td>Add Value Added Tax @ 15%</td>
</tr>
</tbody>
</table>

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**Allow a 5% contingency amount**

**Prepared by Peo Ya Africa Consulting Engineering [PVT] LTD**