

**MIDRAND VEHICLE TESTING STATION  
REPAIRS AND MAINTENANCE PROJECT  
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT  
2019**

Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 1</u></b>			
	<b><u>PRELIMINARIES &amp; GENERAL</u></b>			
	<b>MINOR WORKS AGREEMENT</b>			
	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.			
	<b>PRELIMINARIES</b>			
	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.			
	<b>PRELIMINARIES APPLICABLE TO THE WHOLE OF THE WORKS</b>			
	<u>Fixed</u>			
1	Preliminaries cost which shall be a fixed amount	Item		
	<u>Value Related</u>			
2	Preliminaries cost which shall be varied in accordance with the value of the works	Item		
	<u>Time Related</u>			
3	Preliminaries cost which shall be varied in accordance with the duration of the contract	Item		
	<b>Carried to Final Summary</b>		ZAR	
	Section No. 1 Bill No. 1 Preliminaries & General <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No	Quantity	Rate	Amount
<b><u>BILL NO 1</u></b>			
<b><u>ALTERATIONS</u></b>			
<u>View site</u>			
<p>Before submitting his tender the tenderer shall visit the site and satisfy himself as to the nature and extent of the work to be done and the value of the materials salvageable from the alterations. No claim for any variations of the contract sum in respect of the nature and extent of the work or of inferior or damaged materials will be entertained</p>			
<u>Explosives</u>			
<p>No explosives whatsoever may be used for alteration purposes unless otherwise stated</p>			
<u>General</u>			
<p>The contractor shall carry out the whole of the works with as little mess and noise as possible and with a minimum of disturbance to tenants in the building and to adjoining premises and their tenants. He shall provide proper protection and provide, erect and remove when directed, any temporary tarpaulins that may be necessary during the progress of the works, all to the satisfaction of the principal agent</p>			
<p>Doors, fanlights, windows, fittings, frames, linings, etc which are to remain the property of the employer shall be carefully taken out, temporarily stored, transported over a distance of approximately ?km to store and handed over to the employer</p>			
<b>Carried Forward</b>		ZAR	
<p>Section No. 2 Bill No. 1 Alterations <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			

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<p style="text-align: right;"><b>Brought Forward</b></p> <p>Doors, fanlights, windows, fittings, frames, linings, etc which are to be re-used shall be thoroughly overhauled before refixing including taking off, easing and rehanging, cramping up, re-wedging as required and making good cramps, dowels, etc, and oiling, adjusting and repairing ironmongery as necessary, replacing any glass damaged in removal or subsequently and stopping up all nail and screw holes with tinted plastic wood to match timber, unless otherwise described. Re-painting or re-varnishing is given separately</p> <p>Prices for taking out of doors, windows, etc shall include for removal of all beads, architraves, ironmongery, etc</p> <p>Prices for taking out and removing doors and frames shall include for removing door stops, cabin hooks, etc</p> <p>With regard to building up of openings in existing walls, cement screeds and pavings, granolithic, tops of walls, etc, shall be levelled and prepared for raising of brickwork</p> <p>Making good of finishes shall include making good of the brick and concrete surfaces onto which the new finishes are applied, where necessary</p> <p>The contractor will be required to take all dimensions affecting the existing buildings on the site and he will be held solely responsible for the accuracy of all such dimensions where used in the manufacture of new items (doors, windows, fittings, etc)</p> <p><b>TEMPORARY BARRICADES, SCREENS, ETC</b></p> <p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 1 Alterations <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>	<p style="text-align: right;">ZAR</p> <hr/> <p style="text-align: right;">ZAR</p>
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Brought Forward			ZAR
<u>Temporary barricades, screens, roofs, etc including removal</u>			
<b>REMOVAL OF EXISTING WORK</b>			
<u>Taking out and removing doors, windows, etc, including thresholds, sills, etc (building up openings and making good finishes elsewhere)</u>			
1	Timber single door and frame exceeding 2,5m <sup>2</sup> and not exceeding 5,0m <sup>2</sup> from half or one brick wall	No	4
<u>Taking down and removing roofs, floors, panelling, ceilings, partitions, etc</u>			
2	Gypsum plasterboard ceilings including cornices, timber bandering, etc	m2	52
<u>Take up and remove wood block floor covering, vinyl floor covering, carpeting, waterproofing, etc.</u>			
3	Carpet tile floor covering including preparing screed for floor covering	m2	10
<u>Hacking up/off and removing ceramic tile floor and wall finishers including removing mortar bed or backing and preparing concrete or brick surfaces for new screed, plaster or tile finishers</u>			
4	Tiles to walls	m2	77
Carried Forward			ZAR
Section No. 2 Bill No. 1 Alterations <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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<b>Brought Forward</b>			ZAR
<u>Taking out and removing glass and mirrors</u>			
5	Glass from steel windows including cleaning out rebates and preparing for new glass	m2	17
<u>Taking out and removing piping, sanitary fittings, etc including disconnecting piping from fittings and making good floor and wall finishes (making good tiling and paintwork elsewhere)</u>			
6	Vitreous china WC pan and cistern	No	2
<b>Carried Forward to Summary of Section No. 2</b>			ZAR
Section No. 2			
Bill No. 1			
Alterations			
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 2</u></b>			
	<b><u>WATERPROOFING</u></b>			
	<p>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.</p> <p>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.</p>			
	<b>SUPPLEMENTARY PREAMBLES</b>			
	<p>Ensure roof sheets are firmly fixed before applying the waterproofing paint</p>			
	<b>PROTECTIVE ROOFING PAINT</b>			
	<p><u>Primer and two coats "Durabit" rubber bitumen emulsion waterproof coating</u></p>			
1	On IBR, corrugated, etc. roof sheeting	m2	20	
	<b>Carried Forward to Summary of Section No. 2</b>		ZAR	
	Section No. 2			
	Bill No. 2			
	Waterproofing			
	<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 3</u></b>			
	<b><u>CARPENTRY &amp; JOINERY</u></b>			
	<p>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.</p> <p>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.</p>			
	<b>SUPPLEMENTARY PREAMBLES</b>			
	<p>Descriptions of hardwood joinery shall be deemed to include pelleting of bolt holes.</p> <p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or shot pins to brickwork or concrete.</p> <p><u>Wrought Meranti doors hung to steel frames</u></p>			
1	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	No	1	
	<b>Carried Forward</b>		ZAR	
	<p>Section No. 2 Bill No. 3 Carpentry &amp; Joinery <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 4</u></b>			
<b><u>CEILINGS, PARTITIONS &amp; ACCESS FLOORING</u></b>			
<p>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.</p> <p>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.</p>			
<b>SUPPLEMENTARY PREAMBLES</b>			
<u>Descriptions:</u>			
<p>Items described as "nailed" shall be deemed to be fixed with hardened steel nails or pins or shot pinned to brickwork or concrete.</p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as "bolted", the bolts are measured elsewhere.</p>			
<b>Carried Forward</b>		ZAR	
<p>Section No. 2 Bill No. 4 Ceilings, Partitions &amp; Access Flooring <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			

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<b>Brought Forward</b>		ZAR
<u>Proprietary suspended ceilings:</u>		
All steel components for ceilings, partitions, etc are to be galvanised in accordance with SANS 121.		
<b>NAILED-UP CEILINGS</b>		
<u>Openings</u>		
Prices for openings for light fittings, ventilation grilles, air conditioning diffusers, etc are to include for any necessary additional support, trimming around, etc		
<u>6.4mm "Rhino" gypsum plasterboard with 32mm wrought softwood half round cover strip over joints</u>		
1	Ceilings including 38 x 50mm sawn softwood bandering at 400mm centres	m2 39
2	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross bander covered with ceiling board and fitted flush in opening on 20 x 20mm pressed steel angle	No 2
<u>6.4mm PVC ceilingboards with 32mm wrought softwood half round cover strip over joints</u>		
3	Ceilings including 38 x 50mm sawn softwood bandering at 400mm centres	m2 47
<b>Carried Forward</b>		ZAR
Section No. 2 Bill No. 4 Ceilings, Partitions & Access Flooring <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>		

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Brought Forward			ZAR
4	Extra over ceiling for 600 x 600mm trap door of 38 x 50mm wrought softwood rebated framing with one 38 x 38mm sawn softwood cross brander covered with ceiling board and fitted flush in opening on 20 x 20mm pressed steel angle	No	2
	<u>4mm "Everite Cladit" high density plain Pressed Nutec-cement boards with 32 x 10mm wrought softwood cover strip over joints</u>		
5	Ceilings including 38 x 50mm sawn softwood bandering at 400mm centres	m2	5
<b>CORNICES, MOULDINGS AND ROSES</b>			
	<u>"Rhino" gypsum plasterboard cornice</u>		
6	75mm standard coved cornice	m	101
<b>SUSPENDED CEILINGS</b>			
	Hangers, suspension grids, "lay-in" panels, etc are to be in accordance with the manufacturers' recommendations		
	<u>9mm White Fissured ceiling tiles on screw-up tee</u> <u>Suspended ceilings to form 1200 x 600mm suspension grid including hangers etc.</u>		
7	Suspended not exceeding 1m below concrete soffits.	m2	10
<b>Carried Forward to Summary of Section No. 2</b>			ZAR
Section No. 2			
Bill No. 4			
Ceilings, Partitions & Access Flooring			
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No		Quantity	Rate	Amount
<b><u>BILL NO. 5</u></b>				
<b><u>FLOOR COVERING, WALL LININGS, ETC</u></b>				
<p>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.</p> <p>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.</p> <p><u>Fixing</u></p> <p>Floor coverings, wall linings, etc shall, where applicable, be fixed with adhesive as recommended by the manufacturers of the flooring, linings, etc</p> <p><u>"Belgotex Berber Point" polypropylene needlepunch carpeting laid in accordance with SABS 0186-2000 fitting code of practice</u></p>				
1	On floors	m2	10	
	<u>Approved non-slip rubber flooring on ramps</u>			
2	Rubber flooring	m2	9	
<b>Carried Forward</b>			ZAR	
<p>Section No. 2 Bill No. 5 Floor Covering, Wall Linings, etc <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>				

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 6</u></b>			
<b><u>METALWORK</u></b>			
<p>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.</p> <p>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.</p> <p><b>GENERALLY:</b></p> <p><u>Descriptions of bolts, anchors, etc</u></p> <p>Descriptions of bolts shall be deemed to include nuts and washers</p> <p>Descriptions of expansion anchors and bolts and chemical anchors and bolts shall be deemed to include nuts, washers and mortices in brickwork or concrete</p> <p>Items described as "holed for bolt(s)" shall be deemed to exclude the bolts unless otherwise described</p>			
<b>Carried Forward</b>		ZAR	
<p>Section No. 2 Bill No. 6 Metalwork <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			

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<p style="text-align: center;"><b>Brought Forward</b></p> <p>Items described as "plugged" shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres</p> <p><u>Aluminium doors, windows, etc</u></p> <p>Doors and windows shall comply with AAAMSA design criteria.</p> <p>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.</p> <p>Doors and windows shall be supplied with protective tape and plastic and shall be removed only once surrounding trades have been completed.</p> <p>For purpose made windows and doors, refer to drawings annexed to these bills of quantities.</p> <p>The following certificates shall be provided prior to commencement of site work:</p> <p>A copy of the relevant AAAMSA Performance Test Certificate from the manufacturer/contractor supplying the architectural aluminium product</p> <p>A Certificate of Conformance confirming that anodising or powder coating has been processed in accordance with SANS 999 and SANS 1796 respectively;</p> <p style="text-align: center;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 6 Metalwork <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>	<p style="text-align: center;">ZAR</p> <hr/> <p style="text-align: center;">ZAR</p>
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<b>Brought Forward</b>		<b>ZAR</b>	
<p>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;</p> <p>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;</p> <p>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.</p>			
<b>STEEL HANDRAILS, BALUSTRADES, ETC</b>			
<b>Welded balustrading to mild steel</b>			
1	<p>Raking balustrading to staircase or ramp of 80 x 40 x 2mm hollow section continuous top rail, 40 x 10mm flat section continuous bottom rail, 12mm square bar section intermediate balusters at 125mm centres between to and bottom rails and 38 x 38 x 2mm hollow section post at approximately 1200mm centres each with 120 x 50 x 8mm flat section base plate twice holed for bolts</p>	m	3
2	<p>Extra over 80 x 40 x 2mm hollow section for mitred L-intersection</p>	No	2
<b>PRESSED STEEL DOOR FRAMES</b>			
<b>Carried Forward</b>		<b>ZAR</b>	
<p>Section No. 2 Bill No. 6 Metalwork <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			



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Brought Forward		ZAR	
<b>GALVANISED PRESSED STEEL DOOR FRAMES</b>			
<u>1,2mm. Rebated frame suitable one brick wall</u>			
3	Frame for door size 900 x 2032mm. high	No	4
<b>ALUMINIUM SHOPFRONTS COMPLETE WITH GLAZING, HANDLES AND ALL ACCESSORIES</b>			
<u>ALUMINIUM DOORS</u>			
4	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
<b>SUNDRIES</b>			
<b>Nameboards</b>			
5	2500 x 1800 x 8mm Chromadek nameboard mounted to 50 x 50mm welded frame mounted on 2 x 75 x 3mm diameter hollow tube, with overall height of 2500mm, 500mm bottom ends cast into and including 15MPa concrete footing in ground, including excavation, ramming, removal of spoil and leaving clean and neat.	No	1
<b>Carried Forward to Summary of Section No. 2</b>		ZAR	
Section No. 2			
Bill No. 6			
Metalwork			
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 7</u></b>			
	<b><u>IRONMONGERY</u></b>			
	<p>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.</p> <p>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.</p>			
	<b>HINGES, BOLTS, ETC.</b>			
	<u>"Union" or equal and approved fixed to timber</u>			
1	100mm steel hinge	No	8	
	<b>LOCKS</b>			
	<u>"Union" or equal and approved fixed to timber</u>			
2	Three lever lockset (2 Keys) with striking plate fixed to metal Ref. CZ682-24-52CH / SC. Lockset with lock, handles and keys, complete	No	1	
	<b>Carried Forward</b>		ZAR	
	<p>Section No. 2 Bill No. 7 Ironmongery <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			

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Brought Forward			ZAR
3	Four lever lockset (2 Keys) with striking plate fixed to metal Ref. CZ682-24-61CH. Lockset with lock, handles and keys, complete	No	3
<b>BATHROOM FITTINGS</b>			
<u>"IW" or equal and approved fixed to timber</u>			
4	Code IW7015SS wall mounted soap dispenser plugged	No	2
5	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) vandal 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	2
6	Code IW7010SS surface mounted multi-roll (3) toilet roll dispenser plugged	No	3
<b>Carried Forward to Summary of Section No. 2</b>			ZAR
Section No. 2			
Bill No. 7			
Ironmongery			
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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 8</u></b>			
<b><u>TILING</u></b>			
<p>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.</p> <p>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.</p>			
<b>SUPPLEMENTARY PREAMBLES</b>			
<u>Fixing:</u>			
<p>Tiling described as "fixed with adhesive on power floated concrete" shall be deemed to include for approved tiling key-coat.</p> <p>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.</p>			
<b>Carried Forward</b>		ZAR	
<p>Section No. 2 Bill No. 8 Tiling <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			

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Brought Forward			ZAR
<b>WALL TILES</b>			
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:			
1	On walls.	m2	77
2	On narrow widths	m2	8
<b>Carried Forward to Summary of Section No. 2</b>			ZAR
Section No. 2			
Bill No. 8			
Tiling			
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 9</u></b>			
	<b><u>GLAZING</u></b>			
	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.			
	<u>Float glass</u>			
	The term "float glass" is used for monolithic annealed glass			
	<u>Laminated glass</u>			
	Laminated glass to have polyvinyl butyral (PVB) interlayer(s)			
	<b>GLAZING TO STEEL WITH PUTTY</b>			
	<u>4mm. clear float glass</u>			
1	4mm Glass	m2	10	
	<b>Carried Forward</b>		ZAR	
	Section No. 2 Bill No. 9 Glazing <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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2019**

		Brought Forward			ZAR
<b>GLAZING TO ALUMINIUM WITH CLIP ON BEADS (BEADS MEASURED ELSEWHERE)</b>					
<u>6.38mm clear toughened safety glass</u>					
2	6.38mm Glass	m2	9		
<u>Vinyl films and tinting</u>					
3	Vinyl film to glazing	m2	12		
<b>Carried Forward to Summary of Section No. 2</b>					
Section No. 2					
Bill No. 9					
Glazing					
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>					

**MIDRAND VEHICLE TESTING STATION  
REPAIRS AND MAINTENANCE PROJECT  
CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT  
2019**

Item No	Quantity	Rate	Amount
<b><u>BILL NO. 10</u></b>			
<b><u>PLUMBING &amp; DRAINAGE (MEASURED PROVISIONALLY)</u></b>			
<p>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.</p> <p>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.</p>			
<b>SUPPLEMENTARY PREAMBLES</b>			
<u>Sealing of edges:</u>			
Outer edges of sinks, basins, baths, urinals, etc are to be sealed against adjacent surfaces with approved silicone.			
<u>PVC-U pipes and fittings:</u>			
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.			
<b>Carried Forward</b>		ZAR	
Section No. 2 Bill No. 10 Plumbing & Drainage (Measured Provisionally) <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			



**MIDRAND VEHICLE TESTING STATION  
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2019**

**Brought Forward**

ZAR

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.

**Carried Forward**

ZAR

Section No. 2

Bill No. 10

Plumbing &amp; Drainage (Measured Provisionally)

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

**MIDRAND VEHICLE TESTING STATION  
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2019**

**Brought Forward**

ZAR

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.

**Carried Forward**

ZAR

Section No. 2

Bill No. 10

Plumbing &amp; Drainage (Measured Provisionally)

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

**MIDRAND VEHICLE TESTING STATION  
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<p style="text-align: right;"><b>Brought Forward</b></p> <p><u>Disinfection of water pipework:</u></p> <p>Water pipework is to be disinfected at completion.</p> <p><u>Petrolatum anti-corrosion tape:</u></p> <p>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.</p> <p>Prices for wrapping of pipes shall include for all work as described to couplings in the length.</p> <p>Laying, backfilling, bedding, etc of pipes:</p> <p>Pipes shall be laid and bedded in accordance with manufacturers' instructions and trenches shall be carefully backfilled.</p> <p>Where no manufacturers' instructions exist, pipes shall be laid in accordance with the relevant section of SANS 2001.</p>		ZAR	
<p style="text-align: right;"><b>Carried Forward</b></p> <p>Section No. 2 Bill No. 10 Plumbing &amp; Drainage (Measured Provisionally) <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>		ZAR	

**MIDRAND VEHICLE TESTING STATION  
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**Brought Forward**

ZAR

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**

ZAR

Section No. 2

Bill No. 10

Plumbing & Drainage (Measured Provisionally)

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

**MIDRAND VEHICLE TESTING STATION**  
**REPAIRS AND MAINTENANCE PROJECT**  
**CLIENT: JOHANNESBURG METROPOLITAN POLICE DEPARTMENT**  
**2019**

Brought Forward			ZAR
1	Empty and clear septic tank	Item	
<b>REPLACE DAMAGED SANITARY FITTINGS</b>			
<u>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.</u>			
Econo pans - Low cost "Housing" Flats, Old Age Homes, Hostels, RDP etc			
2	Replace WC Heavy duty double flap plastic seat and cover	No	2
<u>Vitreous China Sanitaryware - "Vaal" or equally approved</u>			
3	550 x 400mm (approximately) wash hand basin	No	2
4	9 litre cistern complete with lid, top dual push button and fitments (flush pipe elsewhere)	No	2
5	"Daisy" white vitreous china WC semi-close coupled pan (code 774717) with matching 9litre cistern (code 710034) and white double flap plastic seat	No	2
6	Replace semi-close coupled cistern PVC flush pipe bend, rubber pan connector and seals	No	4
<b>Carried Forward</b>			
Section No. 2 Bill No. 10 Plumbing & Drainage (Measured Provisionally) <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			ZAR

**MIDRAND VEHICLE TESTING STATION  
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Brought Forward			ZAR
<b>REPLACE DAMAGED TAPS, VALVES, ETC.</b>			
<u>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.</u>			
Brass			
Cobra or equivalent Brass Check Valve			
7	15mm Brass Check valve "Code 1022-15"	No	4
<b>SUNDRIES</b>			
8	Attend to, fix leaking waste union and tighten backnut	No	2
9	Replace 15mm leaking tap or stoptap washer including spindle gland packing	No	2
10	Replace leaking or damaged rubber flushpipe connector	No	2
11	Seal leaking uPVC or cast iron WC pan connector joint	No	2
<b>REPLACE DAMAGED SOIL, SEWER, WASTE, VENT PIPE AND FITTINGS</b>			
<b>PVC-U SOIL, SEWERAGE</b>			
Carried Forward			ZAR
Section No. 2 Bill No. 10 Plumbing & Drainage (Measured Provisionally) <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

**MIDRAND VEHICLE TESTING STATION  
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<b>Brought Forward</b>		<b>ZAR</b>	
	<u>Supply and install PVC-U class 51 - 100kPa Normal duty pipes, alteration, bedding and backfill measured elsewhere</u>  <u>Extra over uPVC pipes for fittings</u>		
12	110mm Bend	No	2
<b>REPLACE DAMAGED UNDERGROUND WATER PIPE AND FITTINGS</b>			
	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  <u>Plasson compression fittings</u>		
13	25mm fittings	No	8
<b>Carried Forward to Summary of Section No. 2</b>			
Section No. 2 Bill No. 10 Plumbing & Drainage (Measured Provisionally) <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>		<b>ZAR</b>	

**MIDRAND VEHICLE TESTING STATION  
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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 11</u></b>			
<b><u>ELECTRICAL WORK</u></b>			
<p>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.</p> <p>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.</p>			
<b>SUPPLEMENTARY PREAMBLES</b>			
<u>Distribution boards etc:</u>			
<p>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.</p> <p>Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates.</p>			
<b>Carried Forward</b>		ZAR	
<p>Section No. 2 Bill No. 11 Electrical Work <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			



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2019**

<b>Brought Forward</b>		ZAR
<u>Switches, socket outlets, etc</u>		
Rates for switches, socket outlets, etc are to include for screwing to outlet boxes, connecting up and cover plates		
<u>Light fittings</u>		
Rates for light fittings are to include for hanging, fixing and connecting and for lamp holders and fluorescent tubes and lamps of the type and wattage described		
<b>PROVISIONAL SUM</b>		
<u>Replace non working electrical fittings, power sockets, light switches, including commissioning and issuing COCs.</u>		
1	Allow a provisional amount of Fifty Thousand for replacing electrical fittings that are not in good working condition	SUM
2	Allow for profit at 7.5%	%
3	Allow for attendance at 5%	%
<b>Carried Forward to Summary of Section No. 2</b>		ZAR
Section No. 2		
Bill No. 11		
Electrical Work		
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>		

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 12</u></b>			
<b><u>PAINTWORK</u></b>			
<p>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.</p> <p>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.</p> <p><b>GENERALLY:</b></p> <p><u>Materials:</u></p> <p>All painting materials used on this contract shall be of the manufacture specified and shall comply with the manufacturer's application instructions. Only those paints and materials that have been approved by the Project Manager shall be brought on the site and used on the works. The Project Manager may inspect the paints so brought on and take samples from them for testing purposes.</p> <p>On no account may paints from different manufacturers be mixed together.</p>			
<b>Carried Forward</b>			
<p>Section No. 2 Bill No. 12 Paintwork <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			
		ZAR	

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**Brought Forward**

ZAR

Application of paint:

Exterior painting shall not be carried out during rainy damp, frosty or other inclement weather or when such weather can reasonably be expected within the next eight hours. Each coat of paint, irrespective of the method of application, shall be adequately and permanently keyed on to the previous coat or surface and shall be evenly distributed, continuous and shall dry to a smooth film free of sags, runs or other imperfections.

Each priming coat and undercoat of painting shall be inspected by the Project Manager before any subsequent undercoat or finishing coat is applied.

Priming coats shall be well brushed in to obtain maximum penetration.

**SUPPLEMENTARY PREAMBLES**

All paintwork is to have a minimum maintenance cycle of 7 years in an inland environment.

All paintwork is to be applied in strict accordance with the manufacturers instructions.

All surfaces to be dry, sound and clean, properly cured, and rubbed down to remove all projections and imperfections prior to painting.

**PAINTWORK, ETC. TO NEW WORK**

**Carried Forward**

ZAR

Section No. 2

Bill No. 12

Paintwork

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

**MIDRAND VEHICLE TESTING STATION  
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Brought Forward			ZAR
<b>ON PLASTER BOARD</b>			
<u>One coat alkaline resistant plaster primer and two coats superior acrylic PVA emulsion paint</u>			
1	On ceilings and cornices	m2	91
<b>ON WOOD</b>			
<u>One coat wood primer, one universal alkyd based undercoat and two coats alkyd based eggshell enamel paint</u>			
2	On doors	m2	18
<b>PAINTWORK, ETC. TO PREVIOUSLY PAINTED WORK</b>			
<b>PREPARATORY WORK TO EXISTING WORK</b>			
<b>ON FLOATED PLASTER</b>			
<u>One coat resin based bonding liquid two coats superior acrylic PVA emulsion paint on work in poor condition</u>			
3	On internal walls	m2	150
Carried Forward			ZAR
Section No. 2 Bill No. 12 Paintwork Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD			

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		Brought Forward		ZAR
<b>ON METAL</b>				
<u>Two coats alkyd based high gloss enamel paint on previously painted steel in sound condition</u>				
4	On window frames with burglar bars	m2	5	
<b>ON WOOD</b>				
<u>Spot prime bare wood surfaces with wood primer and apply one universal alkyd based undercoat and two coats alkyd based eggshell enamel paint on previously painted surfaces in poor condition</u>				
5	On doors	m2	30	
<b>Carried Forward to Summary of Section No. 2</b>				ZAR
Section No. 2				
Bill No. 12				
Paintwork				
<b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>				

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Item No		Quantity	Rate	Amount
	<b><u>BILL NO. 13</u></b>			
	<b><u>EXTERNAL WORKS</u></b>			
	<p>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.</p> <p>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.</p>			
	<b>ASPHALT</b>			
	<u>Tar Surfacing (Parking and walkways)</u>			
1	Tar road resurfacing and making good in bad condition (measured provisionally)	m2	200	
	<u>Paintwork</u>			
	Two coats reflective road marking paint on tarmacadam			
	Etching primer and two coats reflective road marking paint on concrete			
2	100mm Wide line	m	7 500	
	<b>Carried Forward</b>		ZAR	
	Section No. 2 Bill No. 13 External Works <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b>			

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Item No	Quantity	Rate	Amount
<b><u>BILL NO. 14</u></b>			
<b><u>PROVISIONAL SUMS</u></b>			
<p>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.</p> <p>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.</p> <p><b>GENERALLY:</b></p> <p>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.</p> <p>Where stated, the contractor may allow for profit if required.</p> <p>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.</p>			
<b>Carried Forward</b>		ZAR	
<p>Section No. 2 Bill No. 14 Provisional Sums <b>Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD</b></p>			



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Section No	FINAL SUMMARY	Page No	Amount
1	Section One	1	
2	Section Two	42	
	Allow a 5% contingency amount		ZAR
	Allow an amount of Twenty Eight Thousand and Sixty Nine and Sixty Three (ZAR28 069.63) for quantity surveying fees (Bills of Quantities production)	Item	
	Allow an amount of Nineteen Thousand Eight Hundred and Thirty Five and Eighty Five (ZAR19 835.85) for project management professional fees during the execution of the project	Item	
	Add Value Added Tax @ 15%		ZAR
	Carried to Form of Tender		ZAR
	Prepared by Peo Ya Africa Consulting Engineering [PTY] LTD		