

**BUILDING OF NEW GUARD ROOM AT MIDWAY  
PERWAY DEPOT.**

**SECTION C**

**SCOPE, SPECIFICATIONS AND SCHEDULE OF QUANTITIES**

PROVISIONAL SCHEDULE OF QUANTITIES  
PRELIMINARY AND GENERAL  
ANNEXTURE A

	<b>OCCUPATIONAL HEALTH AND SAFETY</b>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>
	<p><b>The contractor shall comply with all the requirements set out in the Construction Regulations, issued under The Occupational Health &amp; Safety Act no 85 of 1993.</b></p> <p><b>Safety file shall be provided by the contractor prior to commencement of work.</b></p> <p><b>The contractor shall carry out the works with as little noise and mess as possible. All rubble shall be taken away from site on a daily basis.</b></p> <p><b>Note: All designated items should comply with local content threshold.</b></p> <p><b><u>BILL NO. 1</u></b></p> <p><b><u>PRELIMINARY AND GENERAL</u></b></p> <p><b><u>Preliminary and General</u></b></p>				
1	All Preliminary and General applicable to this project	Sum	1	R -	R -
	<b><u>Occupational Health and safety</u></b>				
2	Compliance with Occupational Health and Safety Act (Act 85 of 1993) and its regulations and with the Employers Health and Safety	Sum	1	R -	R -
	<b><u>Architectural work</u></b>				
3	Design, drawing and approval of the building plans from Municipality for 3.5m wide x 3m long x 2.6m high guard room, toilet inclusive with 200mm reinforced concrete roof slab floor plan including elevations	Sum	1	R -	R -
	Carried to final summary				R -

**ANNEXURE B: GB AND CIVIL WORK**

	<b><u>BILL NO 2</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>
	<b><u>Earthworks (Provisional)</u></b>  <b><u>Supplementary Preambles</u></b>  All soil poisoning and insecticide to be applied under a ten year guarantee by an approved firm of specialist  <b><u>General notes</u></b>  Fill material shall be placed in lift of not more than 150mm Compaction density to be controlled using DCP apparatus to a maximum of 30mm/blow 93% MOD AASHTO compaction is to be achieved  Where backfill is required on both sides of walls, backfill both sides simultaneously.  Where compaction of fill material behind retaining walls is done using mechanical rollers, the rollers must be kept 500mm away from the wall and this 500mm portion must be compacted with hand stampers or wackers.  <b><u>Excavation in earth not exceeding 1m deep</u></b>					
1	Trenches	m <sup>3</sup>	150	R	-	R -
	<b><u>Extra over all excavation for carting away</u></b>					
2	Surplus material from excavation and/or stock piles on site to a dumping site to be located by the contractor	m <sup>3</sup>	20	R	-	R -
	<b><u>Keeping excavation free of water</u></b>					
3	Keeping excavation free of water	Item		R	-	R -
	<b><u>Earth filling obtain from the excavation and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</u></b>					

4	Backfilling to trenches, holes, etc	m <sup>3</sup>	20	R	-	R	-
	<b><u>Compaction of surfaces</u></b>						
5	Compaction of ground surface under floors etc including scarifying for a depth of 150mm, breaking down oversize material, adding suitable material where necessary and compacting to 93% Mod AASHTO density	m <sup>2</sup>	20	R	-	R	-
	<b><u>Soil poisoning: Soil insecticide</u></b>						
6	To bottom and sides of trenches	m <sup>2</sup>	20	R	-	R	-
	Carried to final summary					R	-
	<b><u>BILL NO 3</u></b>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>		
	<b><u>Concrete, Formwork and Reinforcement</u></b>						
	<b><u>Cost of test:</u></b>						
	The costs of making, storing and testing of concrete test cubes as required under clause 7, "test" of SABS 1200 G shall include the cost of providing cube moulds necessary for the purpose, for testing costs and for submitting reports on the test to the Architects. The testing shall be undertaken by an independent firm or institution nominated by the contractor to the approval of the architect						
	<b><u>Formwork</u></b>						
	Descriptions of formwork shall be deemed to include use and waste only ( except where described as "left in" or "permanent", for fitting together in the required forms, wedging, plumbing and fixing to true angles and surfaces as necessary to ensure easy release during stripping and for reconditioning as necessary before re-use.						
	The vertical strutting shall be carried down to such construction as is sufficiently strong to afford the required support without damage and shall remain in position until newly constructed work is able to support itself.						
	Formwork to sides of bases, pile caps, ground beams, etc will only be measured where it is prescribed by the engineer for design reasons. Formwork necessitated by irregularity or collapse of excavated faces will not be						

measured and the cost thereof shall be deemed to be included in the allowance for taking the risk of collapse of the sides of the excavation, provision for which is made in "Earthworks".

### **CONCRETE WORK**

#### **REINFORCED CONCRETE CAST AGAINST EXCAVATED SURFACES**

##### **25MPa/20mm Concrete**

1	Strip footing	m <sup>3</sup>	5	R	-	R	-
2	Concrete slab for guard room and standby generator	m <sup>3</sup>	15	R	-	R	-

#### **REINFORCED CONCRETE**

##### **25MPa/20mm Concrete**

3	200mm concrete roof slab	m <sup>3</sup>	10	R	-	R	-
---	--------------------------	----------------	----	---	---	---	---

#### **TEST BLOCKS**

4	Making and testing 150 x 150 x 150mm concrete strength test cube	No.	1	R	-	R	-
---	--	-----	---	---	---	---	---

#### **CONCRETE SUNDRIES**

##### **Finishing top surface of concrete smooth with a wood float**

5	Surface beds, floor slab, etc	m <sup>2</sup>	30	R	-	R	-
---	-------------------------------	----------------	----	---	---	---	---

##### **Finishing top surface of concrete smooth with a power float**

6	Surface beds, floor slab, etc	m <sup>2</sup>	30	R	-	R	-
---	-------------------------------	----------------	----	---	---	---	---

#### **ROUGH FORMWORK (DEGREE OF ACCURACY III)**

##### **Rough formwork to sides**

7	Strip footings	m <sup>2</sup>	10	R	-	R	-
	<b><u>SMOOTH FORMWORK (DEGREE OF ACCURACY III)</u></b>						
	<b>Smooth formwork to sides</b>						
8	Concrete slab	m <sup>2</sup>	5	R	-	R	-
9	Concrete roof slab	m <sup>2</sup>	5	R	-	R	-
	<b>Smooth formwork to soffit</b>						
10	Roof concrete slab	m <sup>2</sup>	15	R	-	R	-
	<b>MOVEMENT JOINTS ETC</b>						
	<b>Saw cut Joints</b>						
11	20 x 45mm Saw cut joints on top of concrete	m	10	R	-	R	-
	<b>REINFORCEMENT</b>						
	<b>Reinforcement to structural concrete work</b>						
12	Calculate, design, Fabrication and placing reinforcement for footings, floor and roof slab. Bending schedule to be submitted for approval prior to construction	Sum		R	-	R	-
	Carried to final summary					R	-
	<b><u>BILL NO 4</u></b>	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>		
	<b><u>MASONRY</u></b>						
	<b><u>BRICKWORK</u></b>						
	<b><u>FOUNDATIONS (PROVISIONAL)</u></b>						
	<b>15MPa/20mm concrete</b>						

1	50mm blinding layer	m <sup>3</sup>	1	R	-	R	-
	<b>Brickwork of NFP bricks in class II mortar</b>						
2	One brick walls	m <sup>2</sup>	15	R	-	R	-
	<b>SUPERSTRUCTURE</b>						
	<b>20-30MPa Silver-gray Travertine or similar approved Imperial FBX clay face brick, size 222 x 106 x 73mm, manufactured in accordance with SANS 227:2007, bedded and jointed in Class I mortar and pointed with flush vertical, flush horizontal joints, with every 6th horizontal joint to be recessed.</b>						
3	One brick walls	m <sup>2</sup>	60	R	-	R	-
4	Half brick walls	m <sup>2</sup>	10	R	-	R	-
	<b>BRICKWORK SUNDRIES</b>						
	<b>Brick reinforcement</b>						
5	150mm wide reinforcement built in horizontal	m	20	R	-	R	-
6	230mm wide reinforcement built in horizontal	m	50	R	-	R	-
	<b>Pre-stressed fabricated lintels</b>						
7	150 x 70mm lintels in length not exceeding 4m long	m	8	R	-	R	-
	<b>Face brick coping</b>						
8	Coping on top of one brick wall	m	15	R	-	R	-
	<b>Striking and Pointing on face brick work</b>						
9	Striking and pointing on face brick work	m <sup>2</sup>	100	R	-	R	-
10	Extra over brick work for brick on edge header course band	m	10	R	-	R	-

	Carried to final summary					R -
	<b><u>BILL NO 5</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>
	<b><u>WATERPROOFING</u></b>					
	<b><u>WATERPROOFING TO ROOFS</u></b>					
	<b>On flat concrete roofs slab with parapet walls</b>					
	Surface preparation, Supply and lay <b>4mm</b> torch on waterproofing system saturated with Bitumen Silver UV protective agent (approved by the Professional Waterproofing Association) applied by means of the torch on fusion/gas weld application method, with 75mm overlaps, 100mm endlaps and 200mm upturns onto parapet walls. laid in strict accordance with Manufacturer's instructions					
1		m <sup>2</sup>	0	R -	R	-
	<b><u>DAMP PROOFING OF WALLS AND FLOORS</u></b>					
	<b>One layer of 375 micron “Plastic Brikgrip DPC” embossed damp proof course</b>					
2	In walls	m	15	R -	R	-
	<b>One layer of 250 micron “Consol Plastic Black” waterproof sheeting sealed at laps with Pressure Sensitive Tape”</b>					
3	On earth feeling under slabs	m <sup>2</sup>	15	R -	R	-
	<b>JOIN SEALANTS, ETC</b>					
	<b>bitumen impregnated foam plastic joint sealing strips</b>					
4	10 x 20 expansion joints	m	10	R -	R	-
	Carried to final summary					R -
	<b><u>BILL NO 6</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>
	<b><u>CARPENTRY AND JOINERY</u></b>					
	<b><u>SUPPLEMENTARY PREAMBLES</u></b>					
	<b><u>Particle board shall comply with the following specification</u></b>					



1) **SABS 1300 Particle board: exterior and flooring type**

2) **SABS 1301 Particle board: interior type**

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

#### **Joinery**

**Description of frames shall be deemed to include frames, transoms, mullions, rails, etc**

#### **Fixing**

**Items described as “nailed” shall be deemed to be fixed with hardened steel nails or short pims to brickwork or concrete**

**Items described as “plugged” shall be deemed to include screwing to fibre, plastic or metal plugs at not exceeding 600mm centres, and where described as “bolted” the bolts have been given elsewhere**

#### **Decorative**

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

#### **ROOFS ETC**

##### **Plate nailed timber roof truss construction**

The following is applicable in respect of roof trusses:

Trusses are at maximum 1000mm centres and with a pitch of

The roof to have 600mm overhang on both sides (along lengths), eaves cladded with 4mm fibre cement ceiling

Roof to have vertical cladded gable end projecting 150mm at ends of the building.

The first set of dimensions given with the descriptions are the external dimensions of the building, the second set of

dimensions (in brackets) are the external dimensions of the roofs which include the dimensions of the overhangs along lengths and at ends

All trusses are to be fabricated in a factory by specialist approved by the Architect

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

The Manufacture of the trusses shall supply a written guarantee that the trusses are design, manufactured and erected to support the roof covering specified. The guarantee shall be valid for a period of 10 (ten) years

#### **Sawn softwood**

**Roof construction to double pitched roof with two gable ends over rectangular shaped building erected in position complete including all trusses, jack rafters, permanent bracing, gang nail plates ( wall plates and purlins measured elsewhere)**

1	Building size 6500 x 15000mm long overall on plan	No.	1	R	-	R	-
---	---	-----	---	---	---	---	---

#### **Wrought softwood**

2	50 x 75mm purlins at 900mm centre's to sides of trusses	m	150	R	-	R	-
---	---	---	-----	---	---	---	---

3	38mm x 114mm wall plates	m	50	R	-	R	-
---	--------------------------	---	----	---	---	---	---

4	38mm x 100mm Grade M4 ridge beam	m	30	R	-	R	-
---	----------------------------------	---	----	---	---	---	---

#### **Sundries**

5	Two coats creosote on sawn timbers	m <sup>2</sup>	20	R	-	R	-
---	------------------------------------	----------------	----	---	---	---	---

#### **Fascia Board**

6	250mm wide x 38mm thick timber fascia boards	m	30	R	-	R	-
---	--	---	----	---	---	---	---

7	250mm wide x 38mm thick timber barge boards	m	20	R	-	R	-
---	---	---	----	---	---	---	---

#### **DOORS**

8	<b><u>External Doors</u></b>	No.	1	R	-	R	-
	813 x 2032 x 44mm Single leaf semi solid door with 3.2mm hardwood veneer covering on both sides and concealed hardwood vertical edge strip hung to steel door frame						
9	<b><u>Internal Doors</u></b>	No.	2	R	-	R	-
	813 x 2032 x 44mm single leaf semi solid door with 3.2mm hardwood veneer covering on both sides and concealed hardwood vertical edge strip hung to steel door frame						
10	<b><u>FITTINGS</u></b>	m	3	R	-	R	-
	<b><u>Built in cupboards fittings</u></b>						
	<b><u>The following in modular timber cupboards, counters, duty stations, desk etc. as per Cupboard Connections Specification</u></b>						
	<b><u>Carcasses of 16mm thick particle board with both faces white melamine with white Masonite backs. Shelving of 16mm particle board, both faces white melamine and front edge in white PVC. Doors of 16mm particle board with post formed vertical edges and laminated in Renolit. Tops of 32mm particle board with post formed leading edges and laminated in high pressure decorative laminate. All butt edges and edges against walls to be sealed with silicon sealant. Hinges to be “Hettich”. Drawer runners to be metal 500mm series with nylon runners or similar. All units complete with door, handles, hinges, cupboards, door, locks, barrel bolts and shelves. Floor unit complete with kick plates. (Formica tops measured elsewhere)</u></b>						
11	32mm office work top 450mm wide post formed one side only	No.	2	R	-	R	-
	<b><u>Furniture</u></b>  <b><u>Black with square tube steel frame, chip foam seat, medium back density foam with fabric covering</u></b>						
	825 (h) x 450 (w) x 560 (d) black office chairs						

	Carried to final summary					R	-
	<b><u>BILL NO 7</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>	
	<b><u>TILING</u></b>						
	<b><u>Prices:</u></b>						
	Prices are to include for all square cutting and waste, cleaning off on completion and protection from injury. Areas are measured net to face of brickwork and concrete. Any additional area caused by the thickness of tiling and screed are to be allowed for in prices						
	<b><u>FLOOR TILING</u></b>						
	<b>600x600mm Full Bodied polished Porcelain tiles with 3mm grouting lines</b>						
1	On floors	m <sup>2</sup>	15	R	-	R	-
	<b><u>WALL TILING</u></b>						
	<b>Matt Full Bodied Porcelain tiles, size 600 x 300mm x 12mm fixed to internal wall plaster backing with TAL tile adhesive mixed with TAL bonding liquid in lieu of water with joints continuous in both directions and grouted with TAL tile grout, excess grout on the surface to be cleaned with water as work proceeds.</b>						
2	On walls	m <sup>2</sup>	1	R	-	R	-
	<b><u>SKIRTING</u></b>						
	<b>Meranti skirting</b>						
3	20 x 120mm solid meranti skirting	m	10	R	-	R	-
	Carried to final summary					R	-
	<b><u>BILL NO 8</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>	
	<b><u>IRONMONGERY</u></b>						
	<b><u>HINGES, BOLTS, ETC</u></b>						

	<b><u>Supply and install</u></b>					
1	Heavy duty steel hinges for steel door frames	No.	6	R	-	R -
2	Grade 304 Stainless Steel floor mounted door stop, plugged and screwed to floor with matching stainless steel screws.	No.	2	R	-	R -
	<b><u>LOCKS</u></b>					
	<b><u>Supply and install</u></b>					
3	Ultra-security heavy duty lock	No.	1	R	-	R -
4	3 lever lock with handles	No.	2	R	-	R -
5	Grade 304Stainless Steel indicator bolt (code: fixed to surface with matching stainless steel screws.	No.	1	R	-	R -
	<b><u>Bathroom accessories</u></b>					
6	Satin stainless steel toilet roll holders for 2 rolls with central shaft system and cylinder lock, plugged and screwed to the wall with stainless steel screws. (vandal resistant)	No.	1	R	-	R -
	Carried to final summary					R -
	<b><u>BILL NO 9</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>	<b><u>Amount</u></b>	
	<b><u>PLUMBING WORK</u></b>					
	<b>SANITARY FITTINGS</b>					
	<b>Supply and install</b>					
1	Water close coupled suite colour White , comprising 90° outlet open rim pan with matching 9 litre front single flush cistern including lid and fitments and Thermostet seat.	No.	1	R	-	R -
2	Basin colour White, size 510 x 405mm with two tap hole including integrated overflow and chain stay hole bolted to wall with two x 10mm bolts and including Classic floor mounted pedestal and sealed with silicone sealant where basin meets wall.	No.	1	R	-	R -
	<b>WASTE UNION ETC</b>					

	<b>Supply and install</b>						
3	Basin waste, plug, chain, stay and backnut	No.	1	R	-	R	-
	<b>SOIL DRAINAGE</b>						
	<b>Upvc class 34 pipes including excavation, bedding, backfilling and compaction and disposal of surplus material</b>						
4	110mm pipes vertical or ramped to cleaning eyes etc (no excavation)	m	10	R	-	R	-
5	110mm pipes laid in and including trenches not exceeding 1m deep	m	100	R	-	R	-
6	110mm pipes laid in and including trenches exceeding 1m and not exceeding 2m deep	m	50	R	-	R	-
7	50mm pipes with all connection and make good	m	5	R	-	R	-
8	50mm pipes chased into brick walls with all connection and make good	m	5	R	-	R	-
	<b>Extra over Upvc class 34 pipes for fittings</b>						
9	110 Bend	No.	2	R	-	R	-
10	110mm junction	No.	2	R	-	R	-
11	110mm Access bend	No.	2	R	-	R	-
	<b>Upvc Gulley</b>						
12	110mm Gulley not exceeding 1m deep formed of trap, vertical pipe and gully head with loose grating, encased in 15MPa unreinforced concrete, with top of gully 50mm above surrounding finished surfaces, top surface of concrete splayed and with 1:3 cement plaster on exposed surfaces	No.	1	R	-	R	-
	<b>Sundries</b>						
13	110mm Upvc cleaning eye to end of 110 Upvc pipe	No.	3	R	-	R	-
14	350 x 350 x 50mm thick precast concrete inspection eye marker slab finished smooth on exposed surfaces with letters "I.E" or "I.O" on top and placed flush in ground or paving	No.	3	R	-	R	-
15	Testing soil drainage system	Item		R	-	R	-

	<b>Manhole covers</b>						
	<b>Precast concrete manholes with medium duty concrete manhole cover and frame bedded in 1:3 cement mortar, spacers bedded in 1:6 cement mortar and precast concrete slab including excavation, backfilling, compaction, risk of collapse, cartaway surplus material, 300mm thick unreinforced 20MPa/19mm concrete base projection 75mm wide from walls, benching, junctions, channeling and step irons</b>						
16	980mm diameter (internally) Precast concrete manhole not exceeding 1m deep	No.	3	R	-	R	-
17	980mm diameter (internally) Precast concrete manhole exceeding 1m deep and not exceeding 2m deep	No.	3	R	-	R	-
	<b>Sewer connection</b>						
18	Cutting into sides of existing manhole chamber for and connecting 110mm pipe including inserting 110mm channel junction and making good concrete benching	No.	1	R	-	R	-
	<b>WATER RETICULATION</b>						
	<b>PREAMBLES</b>						
	<b>The contractor is referred to the General Preambles for trades 2017 published by the Association of South Africa Quantity Surveyors before pricing</b>						
	<b>WATER PIPEWORK</b>						
	<b>HDPE PE 100PN 12.5 pipes including excavation, bedding, backfilling, and compaction and disposal of surplus material</b>						
19	25mm pipes laid in and including trenches not exceeding 1m deep	m	150	R	-	R	-
	<b>Extra over HDPE</b>						
20	25mm elbow	No.	3	R	-	R	-
21	25mm equal tee	No.	3	R	-	R	-
	<b>TRAPS ETC</b>						
	<b>Supply and install</b>						

22	38mm wash hand basin “P” trap	No.	3	R	-	R	-
	<b>TAPS, VALVES, ETC</b>						
	<b>Supply and install</b>						
23	15mm Push button pillar tap.	No.	1	R	-	R	-
24	Flexi connector	No.	3	R	-	R	-
25	15 Brass Gate Valve	No.	2	R	-	R	-
26	Mini Ball Valve	No.	3	R	-	R	-
27	22mm Brass Gate Valve including cast iron valve box	No.	1	R	-	R	-
	<b>Extra over PVC pipes for fittings</b>						
28	110mm pan connector completely	No.	2	R	-	R	-
29	110 PVC pipes 87.5 degree soil and vent horn access heel bend	No.	2	R	-	R	-
30	110 PVC pipe with all the fittings	m	5	R	-	R	-
	<b>WATER SUPPLIERS</b>						
	<b>Class “O” copper pipe</b>						
31	15mm pipes	m	20	R	-	R	-
32	15mm pipes chased into brick walls and make good	m	50	R	-	R	-
	<b>Extra over class “O” copper pipes for capillary fittings</b>						
33	15mm fitting	No.	20	R	-	R	-
34	15mm Tee	No.	15	R	-	R	-
	<b>RAINWATER DISPOSAL SYSTEMS</b>						
	<b>0.8mm galvanized sheet iron including painting to Prasa colours</b>						
35	150 x 150mm eaves gutter with bracket at every 1m intervals	m	30	R	-	R	-
36	Extra over 150 x 150mm eaves gutter for stopped end	No.	4	R	-	R	-



37	Extra over 150 x 150mm eaves gutter for outlet for 0.15mm pipe	No.	4	R	-	R	-
38	0.15mm rainwater pipes	m	15	R	-	R	-
39	Extra over 0.15mm rainwater pipe for shoe	No.	4	R	-	R	-
Carried to final summary						R	-
<b><u>BILL NO.10</u></b>		<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>	
<b><u>METAL WORK</u></b>							
<b>SECURITY GATES</b>							
<b>Supply and install Burglar door</b>							
1	900 x 2100mm high Heavy duty Burglar door and frame with 16mm steel round bar and 40 x 40 x 2.5mm square tubing as per attached drawing for single door	No.	1	R	-	R	-
<b>Supply and install Burglar window</b>							
2	1m W x 1m H Box windows guard constructed with 5mm of expanded metal and 50 x 50 x 6mm equal angles. To be briefly explain during the briefing session.	No.	1	R	-	R	-
<b>ALUMINIUM WINDOWS</b>							
<b>Standard residential window</b>							
3	Window type PT66 Bronze 600 x 600mm high	No.	1	R	-	R	-
4	Horizontal bronze sliding window 1790w x 890h opening right and left	No.	2	R	-	R	-
Carried to final summary						R	-
<b><u>BILL NO.11</u></b>		<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>		<b><u>Amount</u></b>	
<b><u>ROOF COVERING ETC</u></b>							
<b>PROFILED METAL SHEETING AND ACCESSORIES</b>							
<b><u>Roof sheeting to be Concealed Fix interlocking "KLIP-LOK 700", 0,58mm thick heavy industrial Z275</u></b>							

	<b><u>spelter galvanised steel sheeting with Chromadek, ColorPlus, Colourbond or Globalcoat finish to one side and Grey other side and accessories, fixed to steel purlins using SL 700 approved clips and fasteners. Cover width 700mm. High wind - 120km/h plus - loading to be considered with installation and fixing must be in accordance with manufacturer's recommendations and specifications.</u></b>					
1	Roof covering with pitch not exceeding 25 degrees	m <sup>2</sup>	120	R	-	R -
2	450mm galvanized steel roll top ridge	m	15	R	-	R -
Carried to final summary						R -
	<b><u>BILL NO. 12</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>	<b><u>Amount</u></b>	
	<b><u>GLAZING</u></b>					
	<b><u>GLAZING TO STEEL WITH PUTTY</u></b>					
	<b>4mm obscure glass</b>					
1	Panes exceeding 0.1m <sup>2</sup> and 0.5 m <sup>2</sup>	m <sup>2</sup>	1	R	-	R -
	<b>6.38mm white arctic snow obscure safety glass</b>					
2	Panes exceeding 0.1m <sup>2</sup> and 0.5 m <sup>2</sup>	m <sup>2</sup>	10	R	-	R -
Carried to final summary						R -
	<b><u>BILL NO. 13</u></b>	<b><u>Unit</u></b>	<b><u>QTY</u></b>	<b><u>Rate</u></b>	<b><u>Amount</u></b>	
	<b><u>PAINTWORK</u></b>					
	For preambles see “Model Preambles for Trades” 2008 edition published by the Association of South African Quantity Surveyors					
	<b>SUPPLEMENTARY PREAMBLES</b>					
	<b>Paint:</b>					
	All paint, complete with undercoat, primer, etc. to be used strictly in accordance with the manufactures specification.					

	Only paint which bears the described trade names will be permitted onsite. No Substitution will be allowed						
	<b>Previously painted metal surfaces</b>						
	Surfaces shall be thoroughly rubbed and cleaned down. Blistered or peeling paint shall be completely removed down to bare metal						
	<b>Previously painted wood surfaces</b>						
	Surfaces shall be thoroughly cleaned down. Blistered or peeling paint shall be completely removed and cracks and crevices shall be primed, filled with a suitable filler and finished smooth						
	<b>PAINTWORK, ETC TO NEW WORK</b>						
	<b>One coat professional plaster primer and two coats contractors White Gloss Enamel</b>						
1	On gutters and downpipes	m <sup>2</sup>	25	R	-	R	-
2	On fascia and barge boards	m <sup>2</sup>	25	R	-	R	-
	<b>One coat professional plaster primer and two coats contractors Brick and Slasto Dressing/Brick seal</b>						
3	On internal and external face brick walls	m <sup>2</sup>		R	-	R	-
	<b>ON WOOD</b>						
	<b>One coat wood primer, one Universal Undercoat and two coats PRASA Brown</b>						
4	On Doors	m <sup>2</sup>	30	R	-	R	-
	<b><u>ON METAL</u></b>						
	<b>One coat zinc chromate primer, one Undercoat and two coats Professional Gloss Enamel</b>						
5	On rails, bars, window frames, door frames, burglar gates, gates, gutters and down pipes	m <sup>2</sup>	20	R	-	R	-

	<b>PAINTWORK, ETC TO PREVIOUSLY PAINTED WORK</b>  <b>ON FLOATED PLASTER</b>  <b>Wash with polycell sugar soap and rinse with clean water to remove all traces of soap, remove all loose flaking paint and repair any cracks and defects, spot prime bare and repaired areas with bonding liquid and apply one coat sealer and two coats of interior quality nonconductive floor epoxy paint</b>					
6	On floors	m <sup>2</sup>	0	R	-	R -
	Carried to final summary					R -
	<b><u>BILL NO. 15</u></b>  <b><u>PAVING WORK</u></b>  <b><u>Earthworks</u></b>  <b><u>Supplementary and preambles</u></b>  <b>Excavation:</b>  No claim for rock excavation will be entertain unless the contractor has timeously notified the project manager thereof prior to backfilling  Laying, backfilling, bedding, etc  Pipes shall be laid and bedded and trenches shall be carefully backfilled in accordance with manufacturers' instruction  Where no manufacturers' instruction exist pipes shall be laid in accordance with clauses 5.1 and 5.2 of SABS 1200 L  Pipe trenches etc shall be backfilled in accordance with clauses 3, 5.5, 5.6, 5.7, and 7 of SABS 1200 DB Earthworks (Pipe trenches)	<u>Unit</u>	<u>QTY</u>	<u>Rate</u>	<u>Amount</u>	

	Pipes shall be bedded in accordance with clauses 3.1 to 3.4.1, 5.1 to 5.3 and 7 of SABS 1200 LB : Bedding (Pipes)						
	<b><u>Leave site in good condition</u></b>						
	The contractor shall leave the site where plumbing was executed, clean and neat at completion.						
	<b>Cut and borrow to fill including all material, site to be located by the contractor</b>						
1	G5 Material in compacted layer thickness 200mm less compacted to 90% modified AASHTO density	m <sup>3</sup>	600	R	-	R	-
	<b>Extra over for excavation and breaking down material in:</b>						
2	Soft rock	m <sup>3</sup>	120	R	-	R	-
3	Hard rock	m <sup>3</sup>	40	R	-	R	-
	<b>Cut to spoil or stockpile, site to be located by the contractor</b>						
	<b>Material obtained from</b>						
4	Soft excavation	m <sup>3</sup>	40	R	-	R	-
5	Hard excavation	m <sup>3</sup>	40	R	-	R	-
6	Rip to 450mm of all previous compacted areas	m <sup>3</sup>	300	R	-	R	-
	<b>EXCAVATION, FILLING, ETC</b>						
	<b>Excavation in earth not exceeding 1m deep</b>						
7	Trenches for kerbs and kerbing support	m <sup>3</sup>	100	R	-	R	-
8	Holes for catchpits	m <sup>3</sup>	40	R	-	R	-
	<b>Cut and borrow to fill including all material, site to be located by the contractor</b>						

9	Material in compacted layer thickness 200mm and less, compacted to 90% Mod AASHTO density  <b>Earth filling obtain from the excavation and/or prescribed stock piles on site compacted to 93% Mod AASHTO density</b>	m <sup>3</sup>	00	R	-	R	-
10	Backfilling to trenches  <b>Compaction of surfaces</b>	m <sup>3</sup>	120	R	-	R	-
11	Remove all unwanted vegetation, level ground and create a natural fall for drainage, Compaction of ground surface under floors etc	m <sup>2</sup>	600	R	-	R	-
	Carried to final summary					R	-

**SUMMARY TO FINAL – SECTION C****MIDWAY PERWAY GUARD ROOM**

	STATION NAME	PAGE	AMOUNT
1	Alterations	3 to 4	R -
2	Earthworks	4 to 5	R -
3	Concrete work	5 to 7	R -
4	Masonry	7 to 9	R -
5	Waterproofing	9	R -
6	Carpentry and Joinery	9 to 12	R -
7	Tiling work	12 to 13	R -
8	Ironmongery	13 to 14	R -
9	Plumbing work	14 to 18	R -
10	Metal work	18 to 19	R -
11	Roof covering	19	R -
12	Glazing	19	R -
13	Painting	19 to 21	R -
14	Fencing and gates	21 to 22	R -
15	Paving work	22 to 25	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL FINAL SUMMARY			R -

PROVISIONAL SCHEDULE OF QUANTITIES

ELECTRICAL WORK AT NANCEFIELD SIGNAL RELAY ROOM

<b>OCCUPATIONAL HEALTH AND SAFETY</b>		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
<p><b>The contractor shall comply with all the requirements set out in the Construction Regulations, issued under The Occupational Health &amp; Safety Act no 85 of 1993.</b></p> <p><b>Safety file shall be provided by the contractor prior to commencement of work.</b></p> <p><b>The contractor shall carry out the works with as little noise and mess as possible. All rubble shall be taken away from site on a daily basis.</b></p> <p><b>Note: All designated items should comply with local content threshold.</b></p>							
<b><u>BILL NO.1</u></b>		<u>Unit</u>	<u>QTY</u>	<u>Rate</u>		<u>Amount</u>	
<b><u>ELECTRICAL WORK</u></b>							
<b>LED Light fittings</b>							
1	1500m (5 foot) 58w Open channel LED Fluorescent fittings double tubes for ticket office building	No.	12	R	-	R	-
2	150w Flood LED luminaire manufactured from high pressure unpainted die - cast aluminium housing complying with SANS 60588 --5. Both LED engine and power supply	No.	8	R	-	R	-
3	7w LED bulk head fittings completely with bulbs	No.	1	R	-	R	-
<b>PLUGS</b>							
4	4 X 4 Double plug	No.	5	R	-	R	-
5	4 X 4 Single plugs	No.	5	R	-	R	-
<b>Electrical casing</b>							



6	25 x 40mm PVC trunking	m	30	R	-	R	-
7	20mm PVC SABS conduit completely with all the couplings, saddle, spacer bar assembly and heavy duty U clamps	m	50	R	-	R	-
8	20mm galvanized SABS conduit completely with all the couplings and heavy duty U clamps	m	20	R	-	R	-
9	40mm PVC SABS conduit completely with all the couplings, saddle, spacer bar assembly and heavy duty U clamps	m	50	R	-	R	-
<b><u>SWITCHES</u></b>							
10	White 1 lever 2 way switch	No.	2	R	-	R	-
11	White 2 lever 1 way switch	No.	5	R	-	R	-
<b>Electrical cables</b>							
12	35mm <sup>2</sup> PVC 4 core cable 600/1000V main supply on earth not exceeding 1m deep covered with concrete and re-surfacing after cable has been laid	m	150	R	-	R	-
13	2.5mm <sup>2</sup> suffix cable or GP wire for plugs	m	100	R	-	R	-
14	1.5mm <sup>2</sup> suffix cable or GP wire for lights	m	100	R	-	R	-
<b>Circuit breakers</b>							
15	40 Amp circuit breaker	No.	3	R	-	R	-
16	20 Amp circuit breaker	No.	6	R	-	R	-
17	63 A Main circuit breaker	No.	3	R	-	R	-
18	63 A earth leakage	No.	2	R	-	R	-
19	100 Amp main circuit breaker	No.	1	R	-	R	-
20	Wall mounted 40A isolator	No.	2	R	-	R	-

<b><u>Distribution board</u></b>							
21	Supply, install and commission new Single phase indoor 13mm IP 40 white wall mounted DB board completely supplied with adjustable galvanized wall tray, c/w earth, neutral bars with all circuit breakers mounted on wall and make good	No.	2	R	-	R	-
<b>HVAC Systems</b>							
22	Supply, install and commission new 24000 BTU split unit, inverter technology air conditioner completely with all accessories (drain pipe, amorflex, copper pipe, refrigerant, cable, communication wire, brackets, circuit breaker, isolator, etc )	No.	2	R	-	R	-
<b>Motor gate</b>							
23	Supply, install and commission new 24Vdc electromechanical Heavy Duty gear motor with built in control unit battery charger, base plate, 2 batteries 12v, limit switch cams, 4m rack, 2 remotes, anti-theft brackets and to be equipped with power pack, external receiver and wall mounted console system controlled from the guard room 40m away from the motor gate, etc completely installed and working for gates up to 1200 kg's.	No.	1	R	-	R	-
<b><u>SWITCHES</u></b>							
24	Daylight switches	No.	2	R	-	R	-
<b><u>STANDBY GENERATOR</u></b>							
25	Supply, install and commission new 41KVA diesel Generator including canopy, 38kva prime power, maximum 41kva standby, 380v, 1500 RPM 75 liter tank: 13 hours runtime @ 75% load built in AVR delivers non fluctuating power starter motor 4.5kw 24v electric starter 4 cylinder 4 stroke powerful diesel engine 3 phase out put 38Kva prime silent diesel generator with 100A three phase automatic transfer switch	No.	1	R	-	R	-
<b><u>EAR THING</u></b>							

26	Earth bonding for all the buildings as per SANS 10142 and the specification.	No.	1	R	-	R	-
<b><u>ELECTRICAL COMPLIANCE</u></b>							
All work to comply to SANS 10142 Compliance certificate to be provided on completion Pricing to include all necessary complete connection							
27	Certificate of compliance and all other testing required including 12 month guarantee	Item	1	R	-	R	-
Carried to final summary						R	-

### ***ELECTRICAL WORK FINAL SUMMARY***

#### ***ELECTRICAL WORK AT THE GUARD ROOM***

	STATION NAME	PAGE	AMOUNT
1	Electrical work	27 to 30	R -
SUB TOTAL			R -
ADD VAT @ 15%			R -
TOTAL			R -

### ***MIDWAY PERWAY GUARD ROOM FINAL SUMMARY***

#### ***SECTION C***

	STATION NAME	PAGE	AMOUNT
1	Annexure A : Preliminary and General	3	R -
2	Annexure B : General building works	3 to 26	R -
3	Annexure C Electrical work	27 to 30	R -
SUB TOTAL			R -

ADD VAT @ 15%	R	-
TOTAL AMOUNT TO SECTION C	R	-

**FINAL SUMMARY OF MIDWAY SIGNAL AND PERWAY UPGRADE**

<b>FINAL SUMMARY SECTION A UPGRADE OF MIDWAY SIGNAL DEPOT.</b>	<b>R</b>
<b>FINAL SUMMARY SECTION B UPGRADE OF MIDWAY PERWAY DEPOT.</b>	<b>R</b>
<b>FINAL SUMMARY SECTION C BUILDING OF GUARD ROOM AT MIDWAY PERWAY DEPOT.</b>	<b>R</b>
<b>TOTAL SUMMARY</b>	<b>R</b>

ELEVATION B-B

