

ITEM NO	PAY. REF.	DESCRIPTION		QUANTITY	RATE	AMOUNT
1		<b>AIR CONDITIONING SYSTEM</b>				
		Supply and installation of air conditioning units, including fresh air fans, fittings, supports, joints, connections, wired remotes, accessories, ducting and insulation, as per the drawings.				
1.1	AC01	High wall split unit with <b>2.6kW</b> Cooling and <b>3.2kW</b> heating capacity Inverter unit, Complete with fittings, wired wall mounted remote controller and accessories	No	23		
1.1.1		Class 6-Ø25Ø PVC drain piping, to nearest drain point	m	100		
1.1.2		Refrigerant piping pair (liquid and gas)	m	115		
1.1.3		L-Shaped Support brackets pair	No	46		
1.1.4		Wired remote controller	No	25		
1.2	AC02	High wall split unit with <b>3.6kW</b> Cooling and <b>4.0kW</b> heating capacity Inverter unit, Complete with fittings, wired wall mounted remote controller and accessories	No	1		
1.2.1		Class 6-Ø25Ø PVC drain piping, to nearest drain point	m	5		
1.2.2		Refrigerant piping pair (liquid and gas)	m	25		
1.2.3		L-Mounting Support brackets pair	m	1		
1.2.4		Wired remote controller	No	1		
1.3	AC03	Ceiling cassette spit unit with <b>3.6kW</b> Cooling and <b>4.0kW</b> heating capacity Inverter unit, Complete with fittings, wired wall mounted remote controller and accessories	No	4		
1.3.1		PVC drain piping, to nearest drain point	m	15		
1.3.2		Refrigerant piping pair (liquid and gas)	m	15		
<b>Carried Forward</b>						

Bill No. 2  
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H 5m

ITEM NO	PAY. REF.	DESCRIPTION		QUANTITY	RATE	AMOUNT
Brought Forward						R -
1.3.3		L-Mounting Support brackets pair	No	3		
1.3.4		Wired remote controller	No	4		
1.4	AC04	Ceiling cassette split unit with <b>4.5kW</b> Cooling and <b>5.3kW</b> heating capacity Inverter unit, Complete with fittings,wired wall mounted remote controller and accessories	No	1		
1.4.1		Class 6-Ø25Ø PVC drain piping, to nearest drain point	m	5		
1.4.2		Refrigerant piping pair (liquid and gas)	m	5		
1.4.3		L-Mounting Support brackets pair	No	2		
1.4.4		Wired remote controller	No	1		
1.5	AC05	Ceiling cassette split unit with <b>5.6kW</b> Cooling and <b>6.3kW</b> heating capacity Inverter unit, Complete with fittings,wired wall mounted remote controller and accessories	No	1		
1.5.1		Class 6-Ø25Ø PVC drain piping, to nearest drain point	m	1		
1.5.2		Refrigerant piping pair (liquid and gas)	m	1		
1.5.3		L-Mounting Support brackets pair	No	1		
1.5.4		Wired remote controller	No	1		
1.6	DH1	<b>12L per day</b> Low energy Dehumidifier	No	2		
1.7	DH2	<b>10L per day</b> Low energy Dehumidifier	No	2		
Carried Forward						R -

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
<b>2</b>		<b>VENTILATION SYSTEM</b>			
		Supply and installation of fresh and extraction air fans, fittings, supports, joints, connections, wired remotes, accessories, ducting and insulation, as per the drawings.			
<b>2.1</b>		<b>EXTRACTOR AIR FAN AND ANCILLARIES</b>			
2.1.1	WAF1	Wall extractor fan with flow of <b>25L/s at 30Pa</b>	No 3		
2.1.2	WAF1	Wall extractor fan with flow of <b>50L/s at 50Pa</b>	No 17		
2.1.3	EAF1	In-line ducted extractor fan with max flow of <b>250L/s at 200Pa</b>	m 1		
2.1.4	FAF1	Axial flow wall mounted make up air fan flow of 212.2l/s at 180Pa	m 1		
2.1.5	SA	Ø250 mm,Circular silencer with 50mm insulation,nominal length of 500mm	m 2		
<b>2.2</b>		<b>DUCTING SCHEDULE FOR EXTRACTOR AIR FAN</b>			
2.2.1		Ø300 mm, Round Duct,Galvanised iron	m 10,0		
<b>2.3</b>		<b>DUCTING FITTINGS SCHEDULE FOR EXTRACTOR AIR FAN</b>			
2.3.1		Ø300 mm, M_Round Elbow1: 1 D :90 Degree	No 3		
2.3.2		Ø200mm, M_Round Takeoff1: Standard	No 3		
<b>2.5</b>		<b>AIR TERMINAL SCHEDULE</b>			
2.5.1	DG01	400 x 400 mm , Door Grille,Natural Anodised	No 17		
2.5.2	WL	200mm x 200mm,Aluminium anodised	No 20		
		<b>Carried Forward</b>		R	-

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
2.6		<b>CABLE RACK AND GALVANIZED TRUNKING FOR REFRIGERANT PIPING c/w JOINTS, FIXTURES,BENDS,SADDLES AND FITTINGS</b>			
2.6.1		300mm wide staright cable tray welded wire mesh (50 x 50mm Pitch) m	30		
2.6.2		Outdoor Galvanized trunking m	65		
2.8		<b>EXTRACTION CANOPY</b>			
2.8.1		1 x wall mounted stainless steel extraction canopy (2000mm x 1100m) complete with baffle filter and light fittings No	1		
		<b>Carried Forward</b>		R	-

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Mechanical Work  
Moletlane Police Station

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
<b>3</b>		<b>WET SERVICES</b>			
		Supply, delivery, installation, commissioning and testing of all the Pipework, Fittings, and Valves. All flanges and fittings to SANS 1123, and SANS 10252			
<b>3.1</b>		<b>PIPING SCHEDULE-CLASS O COPPER</b>			
<b>3.1.1</b>		<b>COLD AND HOT WATER PIPE SUPPLY</b>			
3.1.1.1		Ø15 mm, Copper including elbows, reducers, tees, reducers	m	125	
3.1.1.2		Ø22 mm, Copper including elbows, reducers, tees, reducers	m	55	
3.1.1.3		Ø28 mm, Copper including elbows, reducers, tees, reducers	m	25	
3.1.1.4		Ø35 mm, Copper including elbows, reducers, tees, reducers	m	10	
<b>3.1.2</b>		<b>INSULATION</b>			
3.1.2.1		Ø15 mm thick, Polysterene pipe insulation (25mm thick)	m	125	
3.1.2.2		Ø22 mm thick, Polysterene pipe insulation (25mm thick)	m	55	
3.1.2.3		Ø28 mm thick, Polysterene pipe insulation (25mm thick)	m	25	
<b>3.1.3</b>		<b>ISOLATION VALVES AND FITTINGS</b>			
3.1.3.1		Supply, deliver, off-load, store on site and install pressure reducing valves, Ball valves, Braided connectors and water meter on the cold water supply pipes to the hot water storage cylinders, including all fittings and accessories	Item	1	
		<b>Carried Forward</b>		R	-

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Mechanical Work  
Moletlane Police Station

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	.
<b>3.1.4</b>		<b>DRAINAGE PIPES</b>			
3.1.3.1		Ø110 mm uPVC soil pipe from WC including bends,tees,elbows,reducers	m	20	
3.1.4.2		Ø50 mm uPVC waste pipe from WHB including elbows,tees,bends,reducers	m	15	
3.1.4.3		Ø50 mm uPVC soil pipe from Urinal including elbows,bends,tees,reducers	m	15	
3.1.4.4		Ø50 mm uPVC waste pipe from Sink including elbows,bends,tees,reducers	m	15	
3.1.4.5		Ø50 mm uPVC waste pipe from Basin including elbows,bends,tees	m	10	
<b>3.1.5</b>		<b>HOT WATER SUPPLY</b>			
3.1.5.1		5.0 Kw output (+-1.9 Kw Input)heat pump producing water @ 60degree celcius & ambient 10 degree over 12 hours/day.including all plant arrangement and internal circulation and metering.	No	7	
3.1.5.2		7.5L Stainless steel hydroboil including piping and fittings.	No	2	
3.1.5.3		50L Horizontal geyser vessel including all piping,including piping and lagging	No	1	
3.1.5.4		Supply,deliver,off-load and store on site primary circulating pumps as at specified flowrate of 0.166m3/hour @ 5m head.	No	16	
		<b>Carried Forward</b>		R	

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Moletlane Police Station

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
<b>3.1.7</b>		<b>DOMESTIC BOOSTER PUMP</b>			
3.1.7.1		Supply and installation domestic water booster pump, 2 pump (one duty one standby) flow of 6.2l/s including isolation valves and pipe fittings	No 2		
3.1.7.2		Supply and install booster pump from the purified tank to the domestic water tank with a flow (Q) of minimum 0.5l/s at 10m head.	No. 1		
<b>3.1.8</b>		Labelling of equipment, valves, piping and plant room drawings	Item 1		
<b>3.1.9</b>		<b>GREASE TRAP</b>			
3.1.9.1		Supply and installation of 2l/sec (GTS 700, 700x450x400) stainless steel grade 304 grease trap with a basket and 110mm inlet and outlet	No 1		
<b>3.1.10</b>		<b>STORMWATER SUMP</b>			
3.1.10.1		Allow for Stormwater water pump, pump at flow (Q) of 5l/s at head of 20m including isolation valves and pipe fittings	No 1		
		<b>Carried Forward</b>		R	

Bill No. 2  
Mechanical Work  
Moletlane Police Station

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
4		<b>FIRE PROTECTION</b>			
		Supply, delivery, installation, commissioning and testing of Fire Hydrants and Hose Reels complete with all the Pipework, Fittings, and Valves. All flanges and fittings to SANS 1123 and SANS 10400-T			
4.1		<b>FIRE HYDRANTS</b>			
		New single stage volute casing, end suction, centrifugal pump with a duty of 75.6m <sup>3</sup> /h (21l/s) at a speed of 1450 rpm against a head of 45m and a hydraulic efficiency of at least 70%, <b>Engineer to give approval prior purchase order is made</b>	No	2	
4.1.1					
		<b>New Motor</b> , induction, squirrel cage, foot-mounted, <b>18.5 kW, 400V, 1450 RPM, IP55</b>	No	2	
4.1.2					
		<b>Flow Switch, 1bar, IP65</b> , A Stainless Steel Paddle and housing, on the Suction side of Each pump	m	1	
4.1.3					
		<b>Flow Switch, 4bar, IP65</b> , A Stainless Steel Paddle and housing, on the Delivery side of Each pump	m	1	
4.1.4					
		Suction Mechanical Pressure Gauge, Wika (100mm dial and filled with glycerine), mounted on each pump suction side for the new pumps with a range from -5 kPa to 100 kPa, complete with ball isolating valve and piping	m	1	
4.1.5					
		Delivery Mechanical Pressure Gauge, Wika (100mm dial and filled with glycerine), mounted on each pump delivery piping, for the new pumps, with a range from 0 to 750 kPa, complete with ball isolating valve and piping	No	1	
4.1.6					
		Pressure Switch, c/w Lower and higher limits adjustments, and wiring to MCC, Wika or Equivalent	No	1	
4.1.7					
		<b>Carried Forward</b>		R	-
		Bill No. 2 Mechanical Work Moletlane Police Station			

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5m

ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
<b>Brought Forward</b>					R -
4.1.8		Floating Level probe into the reservoir, Complete with wiring to MCC No	1		
4.1.9		Jockey pump with a flow of 0.2l/s at 49.5m head No	1		
4.1.10		Supply and install of new motor control panels for the fire pumps and domestic booster pump. No	2		
4.1.11		Electrical control panel with auto switch over configuration and starter control modules No	1		
4.2		<b>FIRE EXTINGUISHER AND HOSE REELS</b>			
4.2.1		30m Hose Reel fixed type complete with nozzle and C.P valve manufactured to SANS Specifications No	7		
4.2.2		30m Hose Reel swing type complete with nozzle and C.P valve manufactured to SANS Specifications No	1		
4.2.3		4.5 kg Dry Chemical Powder Portable Fire Extinguisher including 450 mm Backing Board No	16		
4.2.4		9 kg Dry Chemical Powder Portable Fire Extinguisher including 450 mm Backing Board No	2		
4.2.5		9L Foam Fire extinguisher Portable Fire Extinguisher including 450 mm Backing Board No	1		
4.2.6		5 kg CO2 Fire Extinguisher including 450 mm Backing Board No	1		
4.2.7		1m x1m Fire Balnket No	1		
4.2.8		Fire signage according to drawing Item	1		
4.2.9		Stainless steel fire hose reel cabinet:Size(803 x 367 x 1040mm) No	2		
4.2.10		Stainless steel fire extinguisher cabinet:Size(355 x 250 x 745) No	3		
<b>Carried Forward</b>					R -

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
<b>Brought Forward</b>					R -
<b>4.3</b>		<b>STEEL PIPE FITTINGS AND VALVES</b>			
4.3.1		32mm Ø Steel Pipe including Red enamel paint finishing as well as anti corrosion taping. m	45		
4.3.2		25mm Ø Steel Pipe including Red enamel paint finishing as well as anti corrosion taping. m	55		
4.3.3		200mm Ø Steel Pipe including red enamel paint finishing.all ends flanged m	5		
4.3.4		150mm Ø Steel Pipe including red enamel paint finishing.all ends flanged m	5		
4.3.5		100mm Ø Steel Pipe including red enamel paint finishing.all ends flanged m	10		
4.3.6		200mm Ø non return valve. No	3		
4.3.7		100mm Ø isolation valve,Butterfly Type,PN 16 No	8		
4.3.8		200mm Ø -100mm Ø Eccentric Reducer No	2		
4.3.9		100mm Ø -75mm Ø Eccentric Reducer No	3		
4.3.10		150mm Ø SANS 62 Equal Tee,all ends flanged No	4		
4.3.11		100mm Ø SANS 62 Elbow,all ends flanged No	4		
4.3.12		Vertical 36L steel pressure sustaining tank No	1		
4.3.13		Pipe supports and hangers Item	1		
<b>4.4</b>		Testing and Commissioning of the system and issuing of CoC Item	1		
<b>Carried Forward</b>					R -

Bill No. 2  
Mechanical Work  
Moletlane Police Station

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
<b>5</b>		<b>KITCHEN EQUIPMENT</b>			
		Supply, delivery, installation, commissioning and testing of kitchen equipment complete with all the Pipework, Fittings, and Valves. All flanges and fittings to SANS 1850 and SAPS Project 5 star specification			
5.1		Boiling Pan(135 Litres) oil jacketed 9kW,400V 3Ph	No 1		
5.2		3 Solid plate top Electrical Griddle without oven-1	No 1		
5.3		Supply and install four plate kitchen stove	m 3		
		<b>Carried Forward</b>		R	-

Bill No. 2  
Mechanical Work  
Moletlane Police Station

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ITEM NO	PAY. REF.	DESCRIPTION	QUANTITY	RATE	AMOUNT
		<b>Brought Forward</b>		R	-
6		<b>ACCESS AUTOMATION</b>			
		Supply, delivery, installation, commissioning and testing of medium volume traffic barriers			
6.1		Gate motor (500kg) with max speed of 45metre/min, 24V DC remote hopping receiver, transmitters, Xprod DS Anti-theft bracket, gooseneck and Lb 70mm Disc Lock	No 2		
6.2		12V DC 7.2Ah Backup battery	No 2		
6.3		Surfix 2.5mm 2 +E 30m and backup memory module	m 25		
6.4		6m steel racks (8 x 500mm joinable pices)	m 24		
6.5		Infrared beams	m 2		
		<b>Carried Forward to Summary of Section No 3</b>		R	-

Bill No. 2  
Mechanical Work  
Moletlane Police Station

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Section No. 3

SECTION NO. 3 - SPECIALIST/S WORK

SECTION SUMMARY - SECTION NO. 3 - SPECIALIST/S WORK

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3/1 Electrical Work

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3/2 Mechanical Work

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Carried to Final Summary

R

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Moletlane Police Station

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5m



ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	<b>Brought Forward</b>		R	
	<b><u>General</u></b>			
	The following provisional sums are for work to be executed under separate nominated sub-contracts by firms of Specialists			
	All provisional sums cover the supply and installation of material, equipment, plant, etc., including the commissioning thereof, where applicable			
	<b><u>Fuel, power and water for commissioning plant</u></b>			
	The cost of water, power and fuel for the commissioning of plant shall be borne by the nominated sub-contractor appointed for the relevant nominated sub-contract works in terms of the conditions under which they have/are contract for the specialist work involved			
	<b><u>Profit</u></b>			
	Provisional sums are net and do not include builder's discount. The tenderer may allow next to "Profit" items for any profit he might consider necessary			
	<b><u>Attendance</u></b>			
	The Tenderer may allow next to "Attendance" items for any attendance he might consider necessary and/or for the recovery of any expenses incurred by him for providing attendance to nominated sub-contractors, i.e. by means of the installation of the necessary water/power meters, etc.			
	The tenderer is also referred to Clause 20 in the "Preliminaries" section for the definitions and adjustment of "Attendance"			
	<b>Carried Forward</b>		R	
	Bill No. 1 Provisional Sums Moletlane Police Station			

ITEM NO	DESCRIPTION	QUANTITY	RATE	AMOUNT
	Brought Forward		R	
	<b><u>ESKOM DISTRIBUTION CONNECTION FEE</u></b>			
4/1/1	Provide the sum of R705 000 (Seven Hundred and Five Thousand Rand) for connection fee by Eskom	Item		
4/1/2	Allow for profit	Item		
4/1/3	Allow for attendance	Item		
	<b><u>BOREHOLE SITING, DRILLING, EQUIPPING, TESTING, WATER TREATMENT PLANT &amp; MAINTENANCE PLAN</u></b>			
4/1/4	Provide the sum of R1 575 000 (One Million Five Hundred and Seventy Five Thousand Rand) for borehole siting, borehole drilling, borehole testing, borehole equipping, supply, install and commissioning of automatic 5000/hour reverse osmosis (RO) water purification plant including end user training and two years maintenance plan	Item		
4/1/5	Allow for profit	Item		
4/1/6	Allow for attendance	Item		
	<b><u>CONTRACT PRICE ADJUSTMENT PROVISION</u></b>			
	<u>The following provision is to be omitted from the contract sum and used for contract price adjustment due to inflation.</u>			
4/1/7	Provide the amount of R2 395 000.00 (Two Million Three Hundred and Ninety Five Thousand Rand) as Contract Price Adjustment Provision (CPAP).	Item		
	Carried to Final Summary		R	
	Bill No. 1			
	Provisional Sums			
	Moletlane Police Station			

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## FINAL SUMMARY

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| 2 | Section No. 2 - Building Work     | 146 |  |
| 3 | Section No. 3 - Specialist/s Work | 185 |  |
| 4 | Section No. 4 - Provisional Sums  | 188 |  |

**Sub-total (A)**

R -

### Contingency

Allow five (5) percent of the above sub-total (A) as Contingency to be used as instructed by the Principal Agent in terms of the applicable clause in the JBCC Principal Building Agreement.

R -

**Sub-total (B)**

R -

### Value Added Tax

Allow fifteen (15) percent of the above sub-total (B) for Value Added Tax (VAT)

R -

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FORM OF OFFER AND  
Total carried to Invitation to Bid (PA-32)  
ACCEPTANCE (C.I.I)

Moletlane Police Station

254 MS 5m

BIG BENTLEY  
2023-10-10

*CONSTRUCTION OF MOLETLANE NEW POLICE STATION: LIMPOPO  
PROVINCE*

*BID: 19/1/9/1/74 TB (23)*

**PART C:**

**CONTRACT**

**Part C 3**

**Scope of Work**

**PLEASE TAKE NOTE THAT THE DRAWINGS AND SPECIFICATIONS  
ARE ON THE (CD) THAT WAS ISSUED WITH THIS BID DOCUMENT.**

# APPOINTMENT OF A CONTRACTOR: CONSTRUCTION OF A NEW POLICE STATION; MOLETLANE: LIMPOPO PROVINCE

September 2023

## 1. SITE LOCATION

The site is located on the Southern side of District Road D3628, approximately 400m North of the intersection with Regional Road R519.

The site is surrounded by built up areas, mostly residential and light industrial and is bordered on the North by the main District Road D3628, connecting the township of Mogoto in the West with Moletlane Township in the South

The new development is located at the following coordinates:

Latitude - 24°21'28.34"S  
Longitude - 29°19'12.03"E.

## 2. SCOPE OF WORKS PER DISCIPLINE

### 2.1. ARCHITECTURAL

Contractor shall carry out the works in accordance with issued drawings, schedules, detailed drawings, room data sheets, finishing schedules, carpentry and joinery details drawings, ironmongery schedules etc. for construction purposes. In additions the notes below should be adhered to:

NB: Any discrepancy between the Bill of Quantities detailed specifications, detailed drawings and dimensions found on the drawings should be brought to the attention of the PA/Architect for decision before implementation.

NB: Fittings and installations to Cell block samples to be approved first before bulk installation & must be according to SAPS Five Star specifications of 2012.

NB: Five Star fittings and equipment samples to be approved first by the PA or SAPS before bulk order is placed by Contractor.

A well-ventilated site office, with at least 10 seats, must be provided by Contractor for purpose of site meetings and inspections.

The construction of the proposed new police station works includes:

- Access control building - Block F
- Community Service Centre - Block A

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## **APPOINTMENT OF A CONTRACTOR: CONSTRUCTION OF A NEW POLICE STATION; MOLETLANE: LIMPOPO PROVINCE**

- Public administration block/offices - Block A
- Crime investigation offices - Block A
- General stores - Block A
- Single story cell block - Block B
- Car wash bay and covered parking - Block C
- Generator and battery backup yard with ancillary site works
- 3 x Residential Houses with metal roof covered carports- Block D
- Boundary perimeter wall as shown on the drawings (part brick wall, part invisible/clear-Vu fencing)
- Landscaping
- Refuse block - Block E.
- Parking – staff & public

### **2.2. CIVIL ENGINEERING**

Water is not available for construction purposes and the Contractor must make their own arrangement for water supply to the site. The contractor will be responsible at their own cost for the supply and distribution of water for construction use.

This quality specification describes the standards of the materials required for the civil construction / installation and general methods of installing these materials and is the basis of quality control requirements. It complements the bill of quantities, the drawings, and the detailed specification for the specific contract. Where the detailed specification and/ of the drawings differs from this quality technical specification the detailed specification and the drawings shall take precedence.

This contract shall allow for the complete supply, delivery on site, complete installation, testing and handing over in complete working order of the civil works as specified further herein.

- Construction of layer works for roads and parking areas as per drawings
- Installation of 80mm concrete pavers / asphalt for roads and parking areas as per drawings
- Layerworks and paving includes all internal roads, public parking, staff parking, residential parking and Road Agency Limpopo (RAL) access road & intersection
- Bulk earthworks for building platforms
- Engineered fill (300mm) under surface beds and wall foundations
- Installation of 300mm dia. Concrete spigot & socket stormwater pipes as per drawings:
  - a) Class 50D
  - b) Class 100D in roadways

## **APPOINTMENT OF A CONTRACTOR: CONSTRUCTION OF A NEW POLICE STATION; MOLETLANE: LIMPOPO PROVINCE**

- Installation of 160mm uPVC class 34 heavy duty sewer pipes as per drawings
- Installation of 75mm dia. Class 9 pipes for water reticulation and water supply, including valves, pressure fittings and building connections
- Installation of 110mm dia. Class 9 pipes for fire reticulation, including fire hydrants, fire hose reels and building connections
- Construction of 50000-liter septic tank, including excavation and French drain
- Construction of stormwater retention sump, including excavation and erosion control as per drawings
- Borehole establishment as per BoQ including:
  - Drilling
  - Equipping
  - Testing

### **2.3. STRUCTURAL ENGINEERING**

This quality specification describes the standards of the materials required for the structural works and general methods of installing these materials and is the basis of quality control requirements. It complements the bill of quantities, the drawings, and the detailed specification for the specific contract. Where the detailed specification and/or the drawings differs from this quality technical specification the detailed specification and the drawings shall take precedence.

This contract shall allow for the complete supply, delivery on site, complete installation, testing and handing over in complete working order of the structural works as specified further herein.

- Supply, fabrication and installation of timber roof trusses as per drawings
- Construction of reinforced concrete wall foundations, including foundation walls with brickforce
- Construction of 255mm reinforced concrete suspended slabs, including formwork and sloping screed
- Construction of reinforced concrete beams as per drawings
- Construction of 85mm reinforced concrete surface beds
- Installation of expansion and construction joints on floors and walls as well as articulation joints at doors as per drawings
- Supply, fabricate and install structural steel, including reinforced concrete as per drawings for:
  - a) Carport structures
  - b) Residential carports
  - c) Mesh support structure – Exercise Yard – Cell Block
- Foundation walls as retaining walls to a maximum height of 1000mm
- Brickwork as per Architect's drawings

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- Installation of roof sheeting and gutters as per Architect's drawings
- All structural elements specified under scope bears reference to:
  - a) Building A
  - b) Building B
  - c) Building C
  - d) Building D
  - e) Building E
  - f) Building F
- Construction of boundary wall / Clearview fencing combination as per drawings.

### **2.4. ELECTRICAL ENGINEERING**

Electrical power is not available for construction purposes and the Contractor must make their own arrangement for electrical power supply to the site. The contractor will be responsible at their own cost for the supply and distribution of electricity for construction use.

This quality specification describes the standards of the materials required for the electrical installation and general methods of installing these materials and is the basis of quality control requirements. It compliments the bill of quantities, the drawings, and the detailed specification for the specific contract. Where the detailed specification and/ or the drawings differs from this quality technical specification the detailed, specification and the drawings shall take precedence.

This contract shall allow for the complete supply, delivery on site, complete installation, testing, commissioning and handing over in complete working order of the electrical installation as specified further herein.

Supply and installation of:

- a) 315kVA Transformer
- b) Low voltage supply cables
- c) Distribution kiosks.
- d) Energy-saving light fittings.
- e) Power sockets outlets
- f) Data and Telkom networks wire ways
- g) Indoor distribution boards
- h) Reticulation for CCTV
- i) Reticulation for Access Control System
- j) 75kVA standby generator
- k) 55kW battery bank.
- l) Area lighting
- m) Testing, commissioning, and producing Certificate of Compliance

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## **2.5. MECHANICAL ENGINEERING**

This quality specification describes the standards of the materials required for the mechanical installation and general methods of installing these materials and is the basis of quality control requirements. It complements the bill of quantities, the drawings, and the detailed specification for the specific contract. Where the detailed specification and/ or the drawings differs from this quality technical specification, the detailed specification and the drawings shall take precedence.

This contract shall allow for the complete supply, delivery on site, complete installation, testing and handing over in complete working order of the mechanical installation as specified further herein.

Supply and installation of:

- a) Ceiling cassette split unit air conditioners.
- b) Midwall split unit air conditioners.
- c) Extractor fans-as per SAPS 2012 five-star spec.
- d) Extractor canopy.- as per SAPS 2012 five-star spec.
- e) Kitchen boiling pot- as per SAPS 2012 five-star spec.
- f) Stove- as per SAPS 2012 five-star spec.
- g) Fire pumps and ancillaries.
- h) Domestic water booster pumps.
- i) Fire hose, fire signage and fire extinguishers.
- j) Gate motors and ancillaries.
- k) Heat pump geysers.
- l) Hydro boil.
- m) Internal plumbing pipe system.
- n) Testing, commissioning, and producing Certificate of Compliance / Conformity.

## **2.6. OCCUPATIONAL HEALTH AND SAFETY ACT 1993 (Act 85 of 1993)**

The Contractor must comply with all the requirements set out in the Health and Safety Specification and also the requirements of the Occupational Health and Safety Act (Act 85 of 1993) and all its Regulations.

### **2.6.1. SITE SAFETY**

Prior to work starting on site, the Safety Agent will apply for a Construction Permit, on behalf of the Client, from the Department of Employment and Labour.

No physical work is allowed to take place on site until this permit has been approved by the Department of Employment and Labour. According to the Construction Regulations the Department of Employment and Labour has got 30 days to issue an approved Construction Permit to the Safety Agent.

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The contractor shall develop and implement a safety file with all the legally required documents. This file will be audited by the Safety Agent prior to any construction work starting on site and only when this safety file has been approved by the Safety Agent may the contractor commence with site start up. Any accident/incident will be reported to the Safety Agent as soon as possible.

### **2.6.2. SAFETY AUDITS**

The Safety Agent will conduct periodic audits and these will be ad hoc, so the Full Time Safety Officer on site must ensure that everything regarding safety is in order at all times. The Safety Agent will stop work for any serious infringement.

### **2.6.3. SUPERVISION ON SITE**

The contractor shall appoint a full-time competent Construction Manager 8(1). If the Construction Manager needs to leave the site for whatever reason, then a competent Alternative construction Manager must be appointed to manage the site until the return of the Construction Manager.

All sub-contractors on site shall appoint a competent Construction Supervisor 8(7) to supervise his workers. This supervisor shall be on site at all times while work is taking place for the organization.

For any in depth description of the safety requirements please refer to the Health and Safety Specification.

### **2.7. QUANTITY SURVEYOR**

#### **APPLICABLE STANDARDISED SPECIFICATIONS**

Although not bound in nor issued with this document, the latest issue of all relevant SABS specifications as well as the Model Preambles for Trades (2017 edition) as published by the association of South African Quantity Surveyors shall form part of the contract document.

### **3. DRAWINGS**

See attached consultants drawing list for Architect, Mechanical, Electrical, and Structural & Civil Engineering.

### **4. CONSTRUCTION PROGRAMME**

The successful tenderer shall submit a detailed program, within fourteen days after site handover date, showing a detailed order of procedure and methodology in which they proposes to carry out the Works. The program shall reflect the completion times as reflected on the tender form and the program shall include a

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## **APPOINTMENT OF A CONTRACTOR: CONSTRUCTION OF A NEW POLICE STATION; MOLETLANE: LIMPOPO PROVINCE**

bar chart to show the proposed scheduling and methods of execution of the works and the resources to be allocated to each item or phase of the work. Only items on critical path as reflected on the contractor's accepted program with dates and resources /motivation will be considered during any contractual application for revision of date of practical completion.

### **5. SUPERVISION**

Work shall at all times be subject to full time supervision by a competent supervisor who must be authorized to receive instructions and take decisions on behalf of the Contractor.

### **6. INSTRUCTIONS TO THE CONTRACTOR**

Any instructions related to this contract must be given in writing and must be recorded in the site instruction book which will be available on site at all times. The site instruction book in triplicate must be provided by the contractor. No alterations, variations, instructions, requests, etc. will be allowed unless authorized by the SAPS or the duly authorized representative. No claims for extra work, without written authorization and/or instructions from the SAPS will be entertained.

It should be noted that no additional work any other than that was included in the bills of quantities, or any Variation Orders may be executed before an official instruction is received from the Principal Agent.

### **7. PAYMENTS**

All claims for interim payments must be certified by the Principal Agent. Payment for materials on site will only be allowed if documentary proof is submitted that the contractor is the lawful owner of the materials. The contractor is referred to the contract data regarding the security clause applicable to this contract.

### **8. GENERAL LABOUR**

It is an explicit condition of this tender that only persons normally residing in the locality of the works (local labour) may be employed on the contract with respect to labour intensive scope. Provided, however, that should adequate and appropriate labour not been available within the locality, other labour may be employed subject to satisfactory proof being provided that every reasonable endeavour has been made to employ labour from the immediate locality.

The contractor shall identify the local community leaders with the purpose of negotiating with them regarding the utilisation of local labour in the construction process.

In this regard the contractor shall furthermore give preference, wherever possible to the employment of single heads of households, women and youth. The contractor shall in general maximise the involvement of the local community.

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Wherever possible the contractor shall appoint workers that reside in the area where the construction is taking place. These people must be competent to perform the work that they are required to perform. If necessary, training can be supplied to the workers to make them competent. If no person can be found with the particular skills and experience required, only then will the contractor be allowed to employ people that reside elsewhere.

All local labour inclusive of Community Liaison Officer, Project Steering Committee and Small Medium Enterprises shall be remunerated up to 30% of the contract value.

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**PART C:**

**CONTRACT**

**Part C4**

**Occupational Health and Safety:**

**PLEASE TAKE NOTE THAT THE OHS- SPECIFICATION IS INCLUDED  
ON THE CD THAT WAS ISSUED WITH THIS BID DOCUMENT.**

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