

PASSENGER RAIL AGENCY OF SOUTH AFRICA

Supply and delivery of tools of trade for Electrical

SPECIFICATION AND SCOPE OF WORK

1. General

- The contractor shall be responsible for the Supply and delivery of tools of trade.
- The area of delivering the above-mentioned items is Capital Park Depot, Germiston Depot, Roodepoort Depot, Shosholoza Myl Junction and Various locations within Gauteng.
- All Electrical tools to be delivered for this contract shall be compliant to SANS and or IEC standards.63

2. Specifications for the Electrical tools

2.1. Bolt cutters 900mm

- Weight: 4.94kg
- Pack Dim: 920.00mm x 190.00mm x 40.00mm

2.2. Hydraulic feeder crimping machine Izumi. Complete with jaws and petrol driven pump

- Reservoir Capacity 145 cc
- Force at Die Face 106kN
- Size 610 (l) x 150 (w) mm
- Weight 6.3kg

2.3. Contact wire Straightening device. CEMBRE MSGW

- Diameter: 14.5mm
- Height: 297mm
- Length: 431mm

- Weight: 6.8kg
- Width: 234mm

2.4. Tool box complete as per list for electricians at Signal Supply

- Electrician tool box complete.

2.5. Gas hose complete with regulator and flame torch

- With Torch Burner Regulator Gas Hose Connector & 2M,5M Hose.

2.6. Electrical Blower (Makita)

- Continuous rating input :600W
- Air volume: UB1102: 4.1m³/min UB1103: 0-4.1m³/min
- Air pressure: UB1102: 5.7kPa (0-580mm H₂O) UB1103: 0-5.7kPa (0-580mm H₂O)
- No load speed (r/min): UB1102: 16,000r/min UB1103: 0-16,000r/min
- Overall length: 479mm
- Net weight / Power supply cord: 2.0kg / 2.5m.

2.7. Drilling Machine 1200w - cordless complete with charger and battery

- 1200w Cordless Impact Drill Driver With 3.0 Ah Battery & Charger

2.8. Angle Grinder 900w (Makita) - cordless complete with charger and battery

- Battery voltage 18 + 18 V
- Battery capacity 6.0 Ah
- Running speeds 6.000 rpm
- Internal opening size 22.23 mm
- Disk diameter 230 mm
- Noise 99 dB(A)
- Vibration Grinding 2.5 m/s² - 7.0 m/s²
- Vibration Deviation(K) 1.5 m/s²
- Dimensions (WxHxD)499 x 250 x 158 mm
- Weight 6.2 kg

2.9. Pallet Jack

- Size: 1220L x 685W
- Open/Closed Height: 85/195mm
- Wheel Size: 180x50/80x70
- Wheel Type: Nylon
- Weight: 130kg
- Load Cap: 5000kg

2.10. Thermometer

- Temperature range -20°C to 320°C
- Temperature resolution +-1°C
- Distance to Spot 12:1
- Power supply: 9V

2.11. Portable Welding Machine

- Welding Machine Type: Inverter
- Portable :Yes
- Power Requirement :230V
- Current Rating :140 A
- Packaging Type :Box
- Width :13 cm
- Height: 20 cm
- Weight :4.2 kg

2.12. Winch heavy duty

- Electric Winch
- Car Trailer Winch
- 3-Stage Planetary Gear
- 6.0 HP
- 10001 - 12000 lbs
- 41 - 50 lbs
- Slow - 0 to 4 fpm

- Wireless Remote
- Synthetic Rope
- Bulldog Winch

2.13. Live line testers 3kv DC

- Detects HV voltages and compares phases
- Self powered operation
- Indicates the presence of live voltage on circuits up to 3.3kV
- Positive phasing test
- High voltage measurement
- Suitable for both dry and wet conditions
- High quality fibreglass rod
- Proving and repeater units
- DC version available
- High immunity to interference field

2.14. Live line testers 6.6kv AC

- Dual purpose HV detection and phase comparison
- Self powered operation
- Indicates the presence of live voltage on circuits up to 6.6kV AC
- Positive phasing test
- High voltage measurement
- High quality fibreglass rod
- Proving and repeater units
- DC version available
- High immunity to interference field

2.15. Feeder come along 800mm

- High Pulling Capacity: 5 tons (10,000 lbs) for horizontal pulling and 2 tons (4,000 lbs) for vertical lifting.
- Durable Construction: Steel construction with zinc-plated hooks and gears for longevity

and rust resistance.

- **Easy Operation:** Features a double-gear manual winch and a powerful ratcheting system for smooth, consistent pulling action with minimal effort.
- **Safety Features:** Equipped with a safety latch on all hooks to prevent accidental slippage.
- **Versatile Use:** Ideal for pulling logs, stumps, or rocks, as well as construction and automotive recovery tasks.

2.16. Calibrating Machine 4000A

- Input ratings, 400V, 50Hz
- Calibration capacity up to 4000Amp
- Fitted in trailer

2.17. 10000V Megger (Insulation Tester) Toptronic TIN 6D

- (Graphic) 10kV
- 20 Insulation test voltages (500V - 10kV)
- Heavy duty carry case
- Silicone test leads
- Anti skid/vibration absorbing enclosure
- Live circuit warning
- Auto discharge
- Insulation time interval test up to 99 sec selectable Model Specification: · Dimensions (mm): 330(L) x 260(W) x 150(H) · Weight: 3,6kg · Power source: 8 x 1.5V C Batteries.

2.18. Floodlight - 200W LED Modular Heavy Duty- With Telescopic Tripod Stand

- 200W SMD LED's
- PF , 0.95
- 120° Beam Angle
- AC 185V – 265V
- EMC Approved
- IP67 Isolated Driver

- IP66 Housing
- Resistant to Rust
- Heavy Duty Aluminium Frame
- 5 Year Warranty
- Dimensions: 423mm(W) x 323mm(H) x 75mm(D)

2.19. Cordless Impact Drilling Machine 12 Volt Rechargeable.

- Voltage 12V
- Capacity 3AH
- Max Torque 57NM
- No load speed 0-425/1500rpm
- Weight 0.97 Kg

2.20. Rotary Hammer Drilling Machine with drills

- Battery type : Lithium ion
- Voltage: 18V
- No load speed: 1550 rpm
- Length: 38CM
- Width: 16cm
- Weight: 2.3Kg

2.21. Drilling Machine with 16mm keyless Chuck - 850 Watt

- Vario (V)-Electronics for working at customised speeds to suit various application materials
- Thumbwheel for Speed Preselection
- Robust die cast aluminium gear housing for optimum heat dissipation and long service life
- Rotating carbon brush bridge for maximum performance even in anti-clockwise operation, e.g. for the removal of stubborn screws
- Marathon-motor with dust protection for long service life
- S-automatic safety clutch: mechanical decoupling of the drive for safe working should the tool stop unexpectedly

- Forward and reverse rotation
- Spindle with hexagonal recess for screwdriver bits for working without chuck
- Cable-protecting ball joint for optimal freedom of motion when working

2.22. Earth Leakage Tester - Toptronic TEL 1 TLB

- SANS164-2 (Type N) plug socket compatible
- Ready-board compatible
- LED wiring integrity indication
- Faulty Earth Detector (LCD)/Live on earth
- ELCB Tester (10-35mA)
- Includes SANS 164-1: 16A – 3 PIN adapter plug

2.23. Phase Rotation Meters - Toptronic T606

- Toptronic 3 Phase Indicator & Rotation Neon Indicator
- Handy · Rugged and compact
- Waterproof Ip24 · Internal fuses
- Open phase and phase sequence
- Pouch included Model Specification:
- Dimensions (mm): 102(L) x 78(W) x 33(H)
- Weight: 212g

2.24. Insulation Resistance Testers 250/500/1000 Volt - T 1800

- Multiple insulation test voltages: 50, 100, 250, 500, and 1000 V
- Insulation tests from 0.01 MΩ to 2.0 GΩ
- Includes live circuit detection to prevent insulation test if voltage >30 V is detected
- To Include auto-discharge of capacitive voltage for added user protection
- Measure AC/DC voltage from 0.1 to 600 V and resistance from 0.01 Ω to 20.00 kΩ
- Provides lo-ohms earth-bond continuity (200 mA)
- Simplifies repetitive or hard-to-reach testing with the remote test probe
- Saves battery power with auto power off
- Presents results on a large, backlit display
- Features CAT IV 600 V over voltage category rating

- Runs on four AA alkaline batteries (NEDA 15 A or IEC LR6) for at least 1000 insulation tests.

2.25. Insulation Resistance Testers 10,000 Volt - TIN 6D

- 20 Insulation test voltages (500 V - 10 kV)
- Heavy duty carry case
- Silicone test leads
- Anti skid/vibration absorbing enclosure
- Live circuit warning
- Auto discharge
- Insulation time interval test up to 99 sec selectable

2.26. Steel Drill Sets

- DRILL SET 29PC 1/16-1/2X1-64
- IMPERIAL SET (FULLY GROUND - M2)" includes a variety of sizes from 1/16" up to 1/2" by 1/64" increments,
- Catering to a wide range of drilling needs.

2.27. Socket Sets 1/2 Drive - D19 TMZ

- Manually operated 1/2" sockets and accessories
- Supplied in blue powder coated, D19 T steel box
- Dimensions: 435x170x50mm
- 27 pieces.

2.28. Hydraulic Hand Crimping Plier Complete with Dies - 25,50,70,95,120,150 and 185mm.

- Built-in bypass relief valve for constant compression
- Head rotates 180°
- Force at die face: 5.2 metric ton
- Accepts BEKU type dies
- Dies sold separately

2.29. Extension Cords Complete with 50m 1.5mm 3 core

- Complete with 50m 1.5mm 3 core

2.30. Soldering Irons Electric - 25 Watts

- Ideal for delicate work on audio equipment, radios and TV servicing.
- Straight nickel plated chisel.
- Copper tip.
- Chisel point.

2.31. Soldering Irons Electric - 120 Watts

- Suitable for heavy duty soldering.
- Bent nickel plated copper tip.
- Chisel point.