



Annexure A

SCM SUBMISSION: SPECIFICATION / SCOPE OF WORK			
PURPOSE OF SUBMISSION		To seek an approval for appointment of a service provider for the Supply and delivery of Signalling maintenance tools in the Gauteng North Region on a once off basis	
DESCRIPTION OF SERVICES / WORK	GOODS /	Supply and delivery of Permanent way maintenance tools in the Gauteng Region	
REQUEST FOR QUOTATION NUMBER	FOR		
DIVISION		Metrorail Gauteng Province	
USER DEPARTMENT		Infrastructure Signals	
DATE SUBMITTED		3 March 2023	

1. INTRODUCTION

The project is for once off Supply and delivery of Signalling maintenance tools in the Gauteng North

2. SPECIFICATIONS AND SAMPLES

Note: Bidders to quote on products or equivalent products that comply with specification below.
Pictures are used for illustrative purpose only.
Bidders are to submit product data sheet of products offered.

2.1 Cable fault detector



2.1.1 Standard description:

2.1.2 Receiver

- 2.1.2.1 Positioning accuracy: $\pm 5\%$ of depth (no adjacent pipeline interference)
- 2.1.2.2 Depth measurement accuracy: $\pm 5\%$ of depth (no adjacent pipeline interference)
- 2.1.2.3 Current measurement accuracy: $\pm 5\%$ of actual current (no adjacent pipeline interference)
- 2.1.2.4 Depth measurement range: 0-6 meters Working mode: valley mode, peak mode, wide peak mode, peak arrow mode
- 2.1.2.5 Working frequency: radio, 50Hz, 100Hz (CPS), 512Hz, 1KHz, 2KHz, 8KHz, 33KHz, 65KHz, 83KHz
- 2.1.2.6 Menu settings: Chinese and English settings menu.
- 2.1.2.7 Working temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- 2.1.2.8 Battery: 7.4V lithium battery
- 2.1.2.9 Dimensions: 595mm \times 136mm \times 238mm
- 2.1.2.10 Weight: 2.3Kg (including battery)

2.1.3 Transmitter

- 2.1.3.1 Output power: up to 10W
- 2.1.3.2 Working frequency: 128Hz, 512Hz, 1KHz, 2KHz, 8KHz, 33KHz, 65KHz, 83KHz
- 2.1.3.3 Working mode: automatic conversion of direct mode, induction, and clamp
- 2.1.3.4 Battery: 14.8V built-in lithium battery pack
- 2.1.3.5 Working temperature: $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$
- 2.1.3.6 Dimensions: 348mm \times 228mm \times 84mm
- 2.1.3.7 Weight: 2.5Kg (including battery)



2.2 Buddy Welder 200 Amps



- 2.2.1 Welder Output at 100 % DC: 200
- 2.2.2 Open Circuit Voltage: 60 – 7
- 2.2.3 Auxillary Power: 4.2 kVA 220V
- 2.2.4 Welding Process: Stick/TIG
- 2.2.5 Engine Power: 13 hP
- 2.2.6 RPM: 3000
- 2.2.7 Engine Type: Air Cooled Starting Recoil/12 V Electric
- 2.2.8 Fuel /Tank Capacity: Petrol 6.5 ltr
- 2.2.9 Frame Dimensions: 800 x 680 x 740mm
- 2.2.10 Dry weight: 90 kg
- 2.2.11 Cable: 25mm/10m
- 2.2.12 Rod Sizes: 2 – 4 mm electrode.



2.3 Meggar



- 2.3.1 Standard description:
- 2.3.2 Checking the insulation of high-voltage electrical equipment (electric motor, transformer, and cable, etc.).
- 2.3.3 Use 50V-1000V voltage to test target insulation.
- 2.3.4 It can measure up to 10GΩ resistance.
- 2.3.5 Short current up to 1.8mA.
- 2.3.6 Automatically calculates PI (Polarization Index) and DAR (Dielectric Absorption Ratio).
- 2.3.7 AC/DC voltage measurement and continuity test.
- 2.3.8 Display back light and auto power-off.

2.4 Digital multi meter



- 2.4.1 Standard description:
- 2.4.2 An auto ranging multifunction digital multimeter with a compact design that makes it ideal for use in the field.
- 2.4.3 3½ Digit, 2000 count LCD display with backlight.
- 2.4.4 AC/ DC voltage, AC/DC current, resistance, and frequency measurement



- 2.4.5 Diode and continuity test functions
- 2.4.6 Data hold and maximum value hold functions
- 2.4.7 Meets EN61010-1 and CAT III 600V standards.
- 2.4.8 Power: 1x PP3 battery

2.5 3 phase rotation meter



- 2.5.1 Standard description:
- 2.5.2 100% Authentic F9040 9040
- 2.5.3 3 Phase Rotation Indicator Motor Drive Tester Meter, 700V

2.6 Electrical tool set



- 2.6.1 Standard description:
- 2.6.2 Technical data:
- 2.6.3 L-BOXX 136 with assortment Electrician,
- 2.6.4 36-pc
- 2.6.5 An assortment of essential tools



2.7 Measuring wheel



- 2.7.1 Standard description:
- 2.7.2 Practical and easy to use, it is suitable for rail
- 2.7.3 And road lines. It consists of a foldable aluminium structure with Teflon wheels, an easy to read display with reset, parking brake and comfortable handle. Foldable with a carry bag for ease of storage.
- 2.7.4
- 2.7.5 Length – 150 mm
- 2.7.7 Width – 320 m
- 2.7.7 Height – 460 mm
- 2.7.8 Weight – 6.3 kg
- 2.7.9 Handle length – ~900 mm

2.8 Round nose shovel



- 2.8.1 Standard description:
- 2.8.2 It's a tool used for scooping,
- 2.8.3 manufactured from carbon
- 2.8.4 steel and heat treated for durability.
- 2.8.5 Anti-corrosion treated and SABS approved
- 2.8.6 Width – 230 mm
- 2.8.7 Height – 920 mm
- 2.8.8 Weight – 2.5 kg

2.9 Pick



- 2.9.1 Standard description:
- 2.9.2 It's used for difficult digging in hard ground,
- 2.9.3 clay and tamping of ballast by hand.
- 2.9.4 Forged from carbonsteel and tempered point.
- 2.9.5 Anti-corrosive black, SABS approved.
- 2.9.6 Technical data:
- 2.9.7 Weight (head only) – 3.5 kg
- 2.9.8 Blade width – 75 mm (Beater end)

2.10 Pick handle

- 2.10.1 Standard description:
- 2.10.2 Polypropylene handle with unbreakable steel core and SABS approved.
- 2.10.3 Technical data:
- 2.10.4 Length – 80 mm
- 2.10.5 Width – 60 mm
- 2.10.6 Height –

2.11 Working flood lights



- 2.11.1 Standard description:
- 2.11.2 Double portable generator outside led flood lights and a mounting frame made of aluminium/ steel.
- 2.11.3 Two led flood lights are attached on the mounting frame.
- 2.11.4 Technical description:
- 2.11.5 Power – 600W per led light
- 2.11.6 IP rating – IP 66
- 2.11.7 Beam angle – 120 degrees
- 2.11.8 Colour temperature – 6500k
- 2.11.9 Length of mounting frame – 710 mm



2.11.10 Width of mounting frame – 580 mm

2.11.11 Height of mounting frame – 1890 mm

2.12 Grass Slasher



2.13 Standard description:

2.14 For grass cutting

2.15 Technical data:

2.16 Dimensions (L x W) – 40mm x 60mm

2.17 Weight – 0.49kg