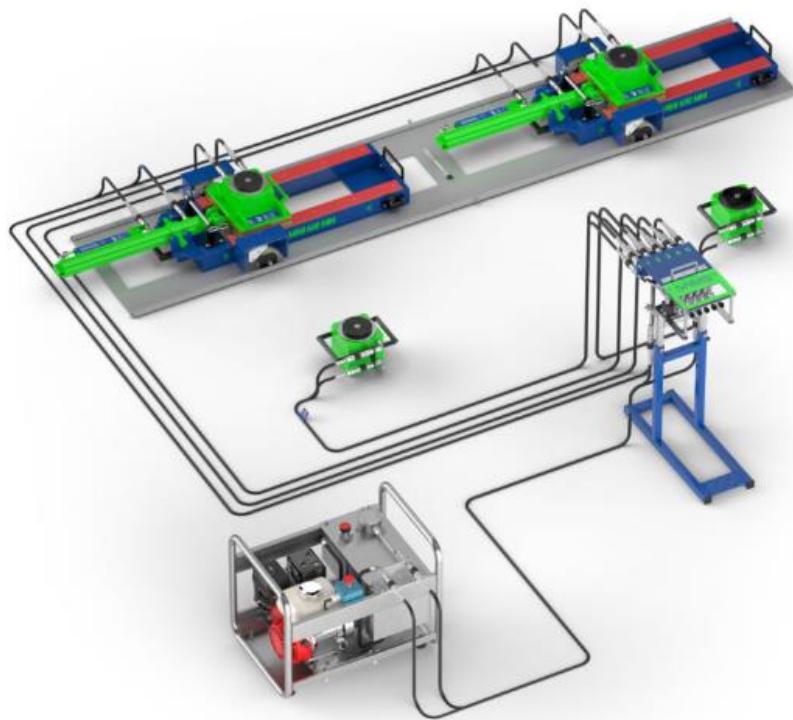


SECTION 11

COMPANY NAME	
BID NUMBER	/BREAKDOWN AND EMU SPECIAL TOOLS.
SERVICE DESCRIPTION	Minimum compliance requirements that shall be guaranteed and adhere to for sourcing, supplying, designing, manufacturing, refurbishment, and quality standard within Metrorail Depots.

SPECIFICATION FOR LIGHT-METAL RERAILING SYSTEM



Bill of quantity

1.

ITEM NO.	DESCRIPTION	QTY	UNIT OF MEASURE	UNIT PRICE (INCL. VAT)	TOTAL PRICE (INCL. VAT)
1	Rerailing System	Sum	Unit		
2	40-ton hydraulic jack	2	Unit		
3	60-ton double action hydraulic jack	2	Unit		
4	Single piston hydraulic jack	2	Unit		
5	10KVA Generator	1	Unit		
	Total				

2 REQUIREMENT.

2.1 APPLICATIONS.

Objective for the procurement is to equip the Breakdown team with light-weight metal rerailing system for Prasa coaches in case of derailment.

The improvement of safety by reduction of equipment weight and easy to handle equipment is important and the stability and the use of a reliable and safe equipment as well as durable.

2.2 TECHNICAL SPECIFICATION/REQUIREMENT

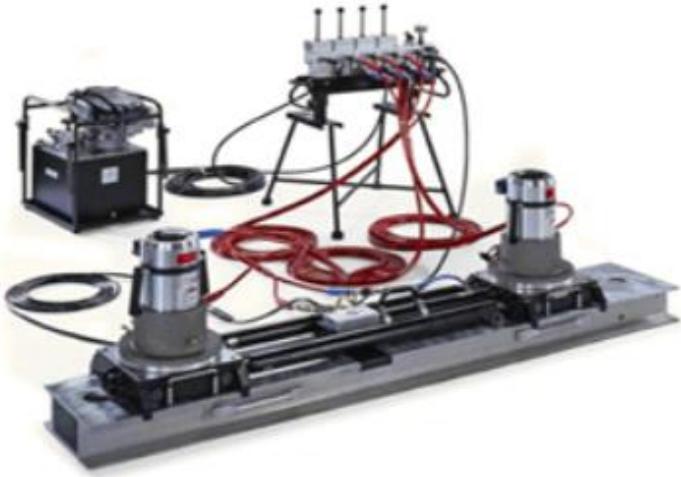
2.2.1 RERAILING SYSTEMS

Hydraulic Rerailing Systems for lifting of EMU and 5M rail vehicles that can lift and traverse with the hydraulic jacks.	
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A motor pump that generates the required oil pressure, and high precision valves control the extension and retraction movements of the hydraulic jacks.

Components for rerailing system:

- Motor pump to generate pressure.
- Control desk as a control console for at least 6 jacks
- Telescopic jack for lifting
- Long lifting jack and accessories for up righting overturned rail vehicles
- DUO traversing unit
- Connection hoses
- Mechanical accessories such as a rerailing bridge, roller carriage and distance bar



2.2.2 40 TON HYDRAULIC JACK

Closed height (mm)	450
Number of pistons	2
Total stroke (mm)	589
Stroke I (mm)	299
Stroke II (mm)	290
Effective force 1 (kN)	429
Effective force 11(kN)	191
Oil capacity (l)	6,2
Bottom flange dia. Ø(mm)	295
Weight (kg)	40
Working pressure (MPa)	30



2.2.3 60 TON DOUBLE ACTION HYDRAULIC JACK

Closed height (mm)	425
Number of pistons	2
Total stroke (mm)	500
Stroke I (mm)	250
Stroke II (mm)	250
Effective force 1 (kN)	641
Effective force 11(kN)	312
Oil capacity (l)	8,1
Bottom flange dia. Ø(mm)	295
Weight (kg)	46
Working pressure (MPa)	30



2.2.4 SINGLE PISTON HYDRAULIC JACK

Closed height (mm)	597
Number of pistons	1
Total stroke (mm)	400
Effective force 1 (kN)	199
Effective force 11(kN)	312
Oil capacity (l)	2,7



2.2.5 10KVA Generator

10KVA Diesel Generator	
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3 SPECIFIC TERMS AND CONDITION

3.1 DEFINITION: PRASA QUALITY ASSURANCE (QA)

A sub section within PRASA that is responsible for assessments of quality, quality systems and to verify the quality of incoming components.

Functional and operational test will be commissioned on the MODULE to verify compliance.

The following documentation must be provided in both hard copies and electronic format(pdf)

- 3.1.1 User manuals
- 3.1.2 Maintenance manuals
- 3.1.3 Service Manual featuring:
- 3.1.4 Component description and part number (OEM).

4 GUARANTEE AND INHERENT DEFECTS.

- 4.1 Until such time as the guarantee of the device has expired, i.e. 1 year, the Supplier shall be entirely responsible for design and manufacturing defects occurring within this period.
- 4.2 The Supplier shall guarantee that any failure will be repaired (in case of equipment be returned to service) within 10 (ten) working days, from the date of being notified of the defect.
- 4.3 The supplier will provide details and contacts for after sales support.