

PRODUCT SYSTEMS DEVELOPMENT - WHEELS USER REQUIREMENT SPECIFICATION

DOC. NO.: PD_PDWL_NAT_URS_055

USER REQUIREMENT SPECIFICATION FOR THE SUPPLY OF AN INSUALTION RESISTANCE METER TO BE USED BY TRANSNET ENGINEERING WHEELS BUSINESS

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	Date:	1 July 2026

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HISTORY OF CHANGES

First issue: **05 -02 - 2019**

Document No.: **PD_PDWL_NAT_URS_055**

The following changes are included in this revision:

Pages Affected	Revision #	Release Date	Description of Changes

DOCUMENT CONTROL

Distribution List:	
Document Availability:	SAP Docman
Related Policy Documents:	
Supporting Templates:	

1. BACKGROUND AND SCOPE OF WORK

- 1.1 This user requirement specification (URS) is for the supply and delivery of an insulation resistance meter (see an example of an insulation resistance meter in Annexure A).
- 1.2 The tenderer must indicate compliance to each item in the attached feedback checklist in Annexure B. An electronic copy of the requested format will be available from Transnet Engineering upon request.

2. SPECIFIC REQUIREMENTS

2.1	A handheld portable resistance meter is required
2.2	The insulation test voltage must at least be 500 - 1000 volts
2.3	Insulation test range must be 0.01 mega-ohm to 2 Giga-ohm.
2.4	There must be a digital display
2.5	Remote probe, test leads, probes and alligator clips must be included
2.6	The meter must save battery power with auto power off
2.7	The meter must be supplied with two sets of batteries.
2.8	The meter must have an impact resistance cover
2.9	Calibration certificate with SANAS logo and laboratory number. Accuracy of $\pm 1\%$ is required.
2.10	Operational instruction manual
2.11	At least 12 months warrantee.

3. OPERATING ENVIRONMENT

- 3.1 The meter will be used in the wheel workshop. Environmental temperature varies between 0 degrees and 40 degrees Celsius.

4. OTHER TENDER REQUIREMENTS

- 4.1 The contractor shall further include the following in the tender:
 - i. The tenderer must indicate compliance to each item separately in the format of the attached feedback checklist in Annexure B. An electronic copy of the requested format will be available from Transnet Engineering upon request.

ANNEXURE A:



Figure 1: Insulation resistance meter

Annexure B:

No.	Heading / Sub-section	Comply		Comments
		Yes	No	
1.0	BACKGROUND AND SCOPE OF WORK			
1.1				
1.2				
2.0	SPECIFIC REQUIREMENTS			
2.1				
2.2				
2.3				
2.4				
2.5				
2.6				
2.7				
2.8				
2.9				
2.10				
2.11				
3.0	OPERATING ENVIRONMENT			
3.1				
4.0	OTHER TENDER REQUIREMENTS			
4.1				
i.				