

PRODUCT SYSTEMS DEVELOPMENT - WHEELS

USER REQUIREMENT SPECIFICATION

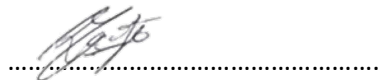
DOC. NO.: PD_PDWL_NAT_URS_072

USER REQUIREMENT SPECIFICATION FOR THE SUPPLY OF A DIGITAL GREASE METER FOR TRANSNET ENGINEERING WHEELS BUSINESS

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Date: 30 June 2026

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TABLE OF CONTENTS

DOCUMENT CONTROL	4
1.0 SCOPE OF WORK	5
2.0 SPECIFIC REQUIREMENTS	5
3.0 OPERATING ENVIRONMENT	5
4.0 GUARANTEE	6
5.0 DOCUMENTATION	6
ANNEXURE A	7
ANNEXURE B	8

HISTORY OF CHANGES

First issue: 20 – 10 – 2020

Document No.: PD_PDWL_NAT_URS_072

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:	

1.0 SCOPE OF WORK

- 1.1 This specification details the user requirements (URS) for the purchase and delivery of a digital grease meter **(See annexure A for an example of a grease meter)**. This grease meter will be used to determine the amount of grease to be pumped for the locomotive motor suspension units during maintenance.

2.0 SPECIFIC REQUIREMENTS

- 2.1 The grease meter shall provide the latest technology and ensure the following: (The tenderer must indicate compliance to each item in the checklist in Annexure B and submit it with the tender documents)
- 2.1.1 The grease meter must have a digital screen (LCD) with an on and off button.
 - 2.1.2 The grease meter must be able to discharge grease in volume (cm³) or weight (grams).
 - 2.1.3 The grease meter must have a button to reset discharged grease on the screen.
 - 2.1.4 The grease meter must be supplied with 2x (two) rechargeable batteries and battery charger.
 - 2.1.5 The grease meter must be able to operate up to a maximum pressure of 700 bars.
 - 2.1.6 The accuracy of the grease meter must be within (+-) 5% from 300 to 700 bars.
 - 2.1.7 The grease meter must be able to achieve a maximum flow of 1000 grams of discharged grease per minute.
 - 2.1.8 The grease meter must have an M10 thread connection.
 - 2.1.9 There must be a low battery indication on the screen when the battery is flat.
 - 2.1.10 The grease meter must be supplied with a SANAS calibration certificate.

3.0 OPERATING ENVIRONMENT

- 3.1 The grease meter will be used in the wheel shop. No temperature control or air conditioning exists.

4.0 GUARANTEE

- 4.1 A testing period is to be defined for the purposes of identifying all operation problems that might exist. Thereafter, a 12-month guarantee period will be given during which any fault during operation or design shall be fully covered by the tenderer.

5.0 DOCUMENTATION

- 5.1 The grease meter shall be accompanied by full documentation (1 x hard copy and 1 x soft copy) including the following (Price included in the tender):
- i. An operation manual explaining the safe operation, fault finding and use of the grease meter.

ANNEXURE A



Figure 1: Example of a digital grease meter

ANNEXURE B

No.	Heading / Sub-section	Comply		Comments
		Yes	No	
1.0	SCOPE OF WORK			
1.1				
2.0	SPECIFIC REQUIREMENTS			
2.1				
2.1.1				
2.1.2				
2.1.3				
2.1.4				
2.1.5				
2.1.6				
2.1.7				
2.1.8				
2.1.9				
2.1.10				
3.0	OPERATING ENVIRONMENT			
3.1				
4.0	GUARANTEE			
4.1				
5.0	DOCUMENTATION			
5.1				