

PRODUCT SYSTEMS DEVELOPMENT - WHEELS USER REQUIREMENT SPECIFICATION

DOC. NO.: PD_PDWL_NAT_URS_056

USER REQUIREMENT SPECIFICATION FOR THE SUPPLY OF A MANUAL TORQUE WRENCH TO BE USED BY TRANSNET ENGINEERING WHEELS BUSINESS.

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HISTORY OF CHANGES

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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 a manual torque wrench for loosening and tightening of bolts on a wheelset (see example 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	The torque wrench must have a torque capacity range of 0 N.m to 1200 N.m.
2.2	The torque unit of measure must be in Newton meters.
2.3	The torque wrench must create an audible click sound when the target torque is reached.
2.4	The accuracy of the torque wrench must be within + - 4% of the target value.
2.5	The torque wrench must be calibrated by a SANAS certified laboratory and supplied with a calibration sticker and a calibration certificate.
2.6	The torque wrench must have a handle/knob for the setting of the required target torque.
2.7	The torque wrench must have a 25.4 mm (1inch drive).
2.8	The torque wrench must be supplied with 3 x 19mm allen key sockets.
2.9	A warrantee of at least 12 months.

3. OPERATING ENVIRONMENT

- 3.1 The manual torque wrench will be used in the wheel workshop.

4. SUPPLY OF THE EQUIPMENT

The following must be supplied:

- 4.1 The calibration certificate with SANAS logo and laboratory number.
- 4.2 Operational instruction manuals (1 hard copy).

5. SAFETY

- 5.1 All equipment and installation whether detailed in this specification or not shall comply with the requirements of the Occupational Health and Safety Act 85 of 1993 as amended by applicable local authorities.
- 5.2 All tenderers shall ensure that they fully understand how the equipment will be used in the wheel shop. Induction courses are available and it is the responsibility of the tenderer to ensure that they attend an induction course at the plant where they will operate.

5.3 All safety rules and guidelines shall be adhered to while on TE premises, and the tenderer shall ensure that all his staff wear the required PPE while on the TE premises.

6. OTHER TENDER REQUIREMENTS:

6.1 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.
- ii. The estimated period for delivery.

ANNEXURE A:



Figure 1: Manual torque wrench

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				
3.0	OPERATING ENVIRONMENT			
3.1				
4.0	SUPPLY OF THE EQUIPMENT			
4.1				
4.2				
5.0	SAFETY			
5.1				
5.2				
5.3				
6.0	OTHER TENDER REQUIREMENTS			
6.1				
6.2				
6.3				