



TRANSNET ENGINEERING

PRODUCT SYSTEMS DEVELOPMENT

SPECIFICATION FOR ROLLER BEARING FOR NEW 12M LOWBED

Revision 00

Date of release

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PD_PRTS_NAT_SPEC_084

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12m Lowbed Trailer

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1.0. INTRODUCTION

- 1.1. This specification details the supply and delivery of all the components detailed in the subsections of this document.
- 1.2. This specification states the minimum requirements of the components and connectors, and in no way absolves the Supplier from the responsibility for sound engineering practice.
- 1.3. Any person with the intention of supplying the components and subcomponents shall ensure that the information below is complied with. The information or requirements are binding and must be supplied by either the supplier in consultation with Transnet or Transnet Engineer and must ensure that mutual agreement is reached between the two parties (Supplier and Transnet) before the supply of machinery or material.

2.0. TECHNICAL REQUIREMENTS

Discussed in the sub-sections below are the specifications and requirements of roller bearings required for the new 12m lowbed trailer wheelset which should be complied with.

3.0. OPERATING ENVIRONMENT

The Components specified in this document will be exposed to the following ambient conditions:

- To be used in a corrosive environment (sea level)
- Temperature: 5°C - 45°C
- Humidity: Frequently 100%
- Air Pollution: Heavy saline, dust-laden and industrial fumes.

4.0. GENERAL REQUIREMENTS

The information in this section shall be provided by the supplier.

- The products names and models.
- The cost of the product, component or system.
- All product, component or system datasheets
- The supplier shall only provide components that are of proven design.
- All components must be dust proof and watertight, where applicable.
- Each component/product shall include a 6-month defects free period in addition to a minimum of two (2) year warranty. Verifiable warranty documents are to be furnished by the supplier.

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5.0. SPECIFIC REQUIREMENTS

5.1. Technical Requirements

The following table contains technical information of the equipment needed:

Item Name	Technical Requirements	Example of Brand	Qty
Roller Bearing	<p>Single row tapered roller bearing, Dimensions: Bore diameter 90mm, Outside diameter 140mm, Width total 39mm, Width inner ring 39mm, Width outer ring 32.5mm, Contact angle 10.167 °.</p> <p>Performance: Basic dynamic load rating 266 kN, Basic static load rating 355 kN, Reference speed 3 600 r/min, Limiting speed 4 500 r/min.</p>	Brand: SKF 33018 or equivalent	As per REQUISTION

6.0. DOCUMENTATION

The following documents shall be obtained for the procurement process.

- Itemized cost breakdown
- Brochure of the various components where applicable
- The product(s) must be supplied with a detailed maintenance manual to have sufficient information to allow the terminal to capture maintenance schedules in terms of inspections, servicing and replacement of parts.
- The supplier shall provide documentation outlining the warranty of the product and what is covered.

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7.0. DOCUMENT AUTHORITIES

A handwritten signature in black ink, appearing to read "Laventhran Naidoo".

Laventhran Naidoo
Senior Engineer, Port Equipment
Product and Systems Development
Date: 05 / 11 /2024

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