



# **TRANSNET ENGINEERING**

## **PRODUCT SYSTEMS DEVELOPMENT**

### **SPECIFICATION FOR TOOLS REQUIRED FOR NEW 12M LOWBED BUILD**

**Revision 00**

**Date of release**

**06 November 2024**

### **PD\_PRTS\_NAT\_SPEC\_085**

The information contained herein is the sole property of Transnet Engineering. It may not be used, disclosed or reproduced in part or in whole in any manner, except with the written permission of and in a manner permitted by the proprietor.

Signature of Bidder/s: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

Classification: Technical Specification

Date: 06/11/2024

Date: \_\_\_\_\_

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Revision: 00

Page: 1 of 7



## Table of Contents

1.0. INTRODUCTION.....	3
2.0. TECHNICAL REQUIREMENTS .....	3
3.0. OPERATING ENVIRONMENT .....	3
4.0. GENERAL REQUIREMENTS.....	3
5.0. SPECIFIC REQUIREMENTS .....	4
6.0. DOCUMENTATION.....	6
7.0. DOCUMENT AUTHORITIES.....	7

Signature of Bidder/s: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

Classification: Technical Specification

Date: 06/11/2024

Date: \_\_\_\_\_

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Revision: 00

Page: 2 of 7



## 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 for the tools required as part of the new 12m lowbed trailer build 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.

Signature of Bidder/s: \_\_\_\_\_

Date: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Classification: Technical Specification

Revision: 00

Date: 06/11/2024

Page: 3 of 7

## 5.0. SPECIFIC REQUIREMENTS

### 5.1. Technical Requirements

The following table contains technical information of the equipment needed:

Item No.	Item Name	Technical Requirements	Example of Brand	QTY
1.	Combination Set	12"/300Mm multi-function combination Set, stainless steel, contains square head, protractor and centre head, metric, and imperial measurements,	Brand: KENNEDY or equivalent	1
2.	Steel Straight Edge (1000mm),	Steel Straight Edge (1000mm), Tolerance according to DIN 874, metric, calibration certificate must be included, Stainless steel		1
3.	Steel Straight Edge (3000mm),	Steel Straight Edge (3000mm), Tolerance according to DIN 874, metric, calibration certificate must be included, Stainless steel		1
4.	Steel Straight Edge (6000mm),	Steel Straight Edge (6000mm), Tolerance according to DIN 874, metric, calibration certificate must be included, Aluminium		1
5.	Digital vernier	Digital vernier, DIN 862. Stainless steel beam and slider. With thumb roller, Direct metric/inch conversion, Precision to 0,02 mm, Resolution 0,01 mm/0.0005 in, Large LC display, battery life >3.5 years, must be supplied with suited case and calibration certificate,	Brand: Kennedy, Senator or equivalent	2
6.	Digital Micrometre (0-25mm),	Digital Micrometre (0-25mm), Measuring Range: 0-25mm, Resolution: 0.001mm, Accuracy: 0.001mm, Measuring Faces: Carbide (Wear resistant), Constant Force Device: Ratchet Stop, IP Rating: IP65 Coolant Proof, Plastic Parts: Oil Resistant, ABS/Inc Function, HOLD Function, No Data Output Function, case and calibration certificate must be included,	Brand: Mitutoyo, Accud or equivalent	1
7.	Digital Micrometre (25-75mm),	Digital Micrometre (25-75mm), Measuring Range: 25-75mm, Resolution: 0.001mm, Accuracy: 0.001mm, Measuring Faces: Carbide (Wear resistant), Constant Force Device: Ratchet Stop, IP Rating: IP65 Coolant Proof, Plastic Parts: Oil Resistant, ABS/Inc Function, HOLD Function,	Brand: Mitutoyo, Accud or equivalent	1

Signature of Bidder/s: \_\_\_\_\_

Date: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Classification: Technical Specification

Revision: 00

Date: 06/11/2024

Page: 4 of 7

		No Data Output Function, Case and calibration certificate must be included,		
8.	Digital Micrometre (75-100mm),	Digital Micrometre (75-100mm), Measuring Range: 75-100mm, Resolution: 0.001mm, Accuracy: 0.001mm, Measuring Faces: Carbide (Wear resistant), Constant Force Device: Ratchet Stop, IP Rating: IP65 Coolant Proof, Plastic Parts: Oil Resistant, ABS/Inc Function, HOLD Function, No Data Output Function, Case and calibration certificate must be included,	Brand: Mitutoyo, Accud or equivalent	1
9.	Feeler Gauge	Feeler Gauge, Size range of 0.03 mm to 0.1 mm with an increment of 0.01 mm, Size range of 0.1 mm to 1 mm with an increment of 0.05 mm,	Brand: Bahco, Accud or equivalent	3
10	Lever Come-along SWL 4000kg	Come-along SWL 2500kg, Load Chain Diameter 50 MM, Chain Material G80 galvanized manganese steel, Capacity 4000 KG, Lifting Height 1.5 M,	Brand: MAC AFRIC Model 5000 Lever Block 1.5m Lift or equivalent	1
11	Electric Pencil Grinder	Electric Pencil Grinder, Voltage Input 230 V @ 50 HZ, Power Output 400 W, No Load Speed 25 000 RPM, Collet Size 5 MM, Sound Level <67dB, Cable Length 5 M,	Brand: Makita Die Grinder GD0600 or equivalent	1
12	Tungsten Carbide Burr Tool Set 5pc 12mm diameter	Tungsten Carbide Burr Tool Set, Set consist of one Tungsten Carbide Burr of each of the following Shapes and Sizes: <ul style="list-style-type: none"> <li>• Cylindrical Without End Cut (ZYA 12mm x 25mm x 6mm Shank),</li> <li>• Ball Shape (KUD 12mm x 10mm x 6mm Shank),</li> <li>• Cylindrical Shape with Radius End “Bullnose” (WRC 12mm x 25mm x 6mm Shank),</li> <li>• Pointed Tree Shape (SPG 12mm x 25mm x 6mm Shank),</li> <li>• Round Tree Shape (RBF 12mm x 25mm x 6mm Shank),</li> </ul>	Brand: PFERD or equivalent	1

Signature of Bidder/s: \_\_\_\_\_

Date: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Classification: Technical Specification

Revision: 00

Date: 06/11/2024

Page: 5 of 7



## 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.

Signature of Bidder/s: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

Classification: Technical Specification

Date: 06/11/2024

Date: \_\_\_\_\_

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Revision: 00

Page: 6 of 7



## 7.0. DOCUMENT AUTHORITIES

A handwritten signature in black ink, appearing to read "Laventhran Naidoo", written over a horizontal line.

**Laventhran Naidoo**  
Senior Engineer, Port Equipment  
Product and Systems Development  
Date: 06 / 11 /2024

Signature of Bidder/s: \_\_\_\_\_

Document Name: SPECIFICATION FOR TOOLS REQUIRED  
FOR NEW 12M LOWBED BUILD

Classification: Technical Specification

Date: 06/11/2024

Date: \_\_\_\_\_

DOC. No : PD\_PRTS\_NAT\_SPEC\_085

Revision: 00

Page: 7 of 7