

MANTAKRAFT – REFURBISHMENT OF SIXTEEN (16) LONG TRAVEL GEARBOXES

SCOPE OF WORK

1. Project Overview

1.1 Introduction

The DRY BULK Terminal in Richards Bay is a material handling facility where bulk cargo is imported and exported through a network of conveyors and bulk materials handling appliances. To ensure continuous operation of the terminal's equipment, a project has been initiated to refurbish sixteen (16) Mantakraft long travel gearboxes.

1.2 Employer's objective

The Employer's objective for this project is that a contractor be appointed to refurbish sixteen (16) Mantakraft long travel gearboxes.

1.2.1 Remove and Assess Gearboxes.

1.2.2 Refurbish to OEM Standards.

1.2.3 Install and Align Gearboxes.

1.2.4 Commission and Verify Compliance.

2. Scope of work

The contractor will be required to perform the following tasks:

2.1 Removal

- Safely disconnect and remove all 16 gearboxes from their respective installations.
- Ensure proper tagging and documentation for traceability.

2.2 Strip, Assess & Quote

- Strip down each gearbox for internal inspection.
- Assess components for wear, damage, and required replacements.
- Provide a detailed condition report and quotation for refurbishment.

2.3 Refurbishment

- Clean all components thoroughly.
- Replace worn or damaged parts with OEM or approved equivalents.
- Reassemble gearboxes to manufacturer specifications.
- Conduct bench testing for functionality and quality assurance.

2.4. Installation

- Transport refurbished gearboxes back to site.
- Install gearboxes in their original positions, ensuring correct mounting and fastening.

2.5 Laser Alignment

- Perform precision laser alignment between gearboxes and connected equipment.
- Document alignment results for compliance and performance verification.

2.6 Commissioning

- Conduct operational checks under load.
- Verify lubrication, temperature, vibration, and noise levels.
- Provide commissioning report and handover documentation.

NB: All work will adhere to Transnet Port Terminals' safety standards and OEM guidelines.

3. Warranties

The Supplier shall provide a one (1) year Guarantee, minimum, to TPT on items supplied and serviced, covering any defects arising from poor quality spares or bad workmanship following delivery. Should the supplied item fail within the specified time quoted, the Supplier will be held responsible for the replacement of the item at no cost to TPT.

4. Governing Codes, Standards and Specifications

The Contractor's works must be in accordance with the requirements of the latest edition of the following standards, specifications and codes:

Transnet Port Terminals Standard Specifications	No.
1. Quality management specification for supplier/construction	EEAM-Q-009
2. Structural steelwork	EEAM-Q-006

5. Additional Requirement

- 5.1 It is compulsory that the contractor quotes all the work as per the scope of work and adheres to the pricing schedule provided.
- 5.2 A schedule/project plan will also be required from the contractor before awarding the contract/job and this will be used as part of an evaluation criterion.
- 5.3 A method statement, indicating on how the items will be manufactured, will also be required from the contractor before awarding of the contract/job and this will be used as part of an evaluation criterion.
- 5.4 With the delivery of the components before installation, a complete task list of the job done will be required from the contractor.
- 5.5 Supply and deliveries: The service provider/contractor is to source and supply the part(s)/equipment as required by the TPT and to comply with the specification and the requirements of Section 4 in the Scope of Work.

6 Contractions' Responsibilities

The Contractor shall provide all the necessary skills, resources, tools, equipment and expertise required to complete ALL the works in this scope of work. As a minimum, this is to include the following:

- Familiarize and understand the proposed site including all constraints and environmental factors.
- Source the equipment as required by the TPT.
- Supply complete method statement and quality control plan for the manufacture of the components.
- Ensure the equipment manufactured is of the required drawing spec, as per on the Scope of Work.
- Ensure that the equipment manufactured is of the required guaranty conditions as in Section 5 of the scope of work.
- To provide all the requested documentation, as specified in Section 6.1.
- Other reasonable work required to successfully supply and deliver the equipment to the Employer on time, on budget, at the accepted quality.
- Conduct thorough risk assessments.
- Obtain the necessary permits (e.g. work permit; hot work permit; etc.)
- Submit comprehensive safety file.

7 Delivery

7.1 Delivery Times

The contractor is expected to commit to the delivery times for carrying out the works through a schedule/project plan with durations, which is to be submitted by the contractor as part of the proposal. These delivery times will be used to evaluate the contractor.

7.2 Delivery Site

The components are to be delivered at the premises of Transnet Port Terminal (TPT) at the Richards Bay Port. The delivery address is as follows: Transnet Harbour, Newark Road, Export, Richards Bay, 3900.

8 Health and Safety Requirements

The Contractor shall comply with Transnet Port Terminals Health Safety and Environmental Specification number: Operations – SHE Contractor Specification SHEQ PRO 021.

9 SITE INFORMATION

9.1 Site Access

The site is at the Bulk Terminal in the Port of Richards Bay. Access to the site will be from the existing public and maintenance road networks whilst access to the Port of Richards Bay will be through the formalized East or West Access Gates. Access to the Port of Richards Bay will be subject to the TPT security requirements and regulations. Site access for delivery vehicles to be arranged directly with TNPA security office, (035) 905 3836.

9.2 Site Facilities Available

No facilities have been provided by the Employer because of the nature and duration of the works. Should a lay down area be required, Contractor shall have to arrange their own.

9.3 Site Conditions

The work undertaken next to a highly dusty area and care should be taken to safeguard against this. Dust masks and safety goggles shall be always used during execution of work.

The groundwater table has been recorded at 0.8m and 1.5m below ground level across the site during winter. The equipment to be commissioned is to be for 24-hour per day operation in an environment subject to the following conditions:

- Altitude – sea level
- Ambient temperature – 5 to 45 °C
- Relative humidity – frequently 100%
- Air Pollution – heavily saline and dust laden; industrial and locomotive fumes; ignitable dusts
- General wind velocities – up to 60km/ h
- Storm wind velocities – up to 180 km / h