

**DURBAN BBC TERMINALS**

Document Title:





**SCOPE OF WORK**

Project Title:

**Provision of Services for The Fabrication of a new  
Deflector Wheel & Refurbishment of the old  
Deflector Wheel at Transnet Port Terminals  
Maydon Wharf, AgriPort, Durban**

**REVISION 00: FOR QUOTATION**

## Document Approval

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## 1 Objective

Transnet Port Terminals (TPT) operates a critical Jet Slinger system as part of the Krupp Shiploader at the Maydon Wharf Terminal in Durban. The Jet Slinger plays a vital role in the loading process, and its optimal performance is essential for efficient operations. Specifically, the Deflector Wheel on the Jet Slinger is experiencing structural deterioration (please see Figure 1), necessitating refurbishment and creation of a new component to prevent unplanned downtime and ensure continuous loading operations. This scope of work outlines the requirements for the refurbishment and fabrication of a new Deflector Wheel for the Jet Slinger system.



*Figure 1: Current condition of the Jet Slinger Deflector Wheel*

## 2 Proposed Solution and Engineering Work to be Provided

The scope of work includes the following tasks:

### **Scope of work requirements.**

1. Fabrication of a new deflector wheel as per the specification provided in Figure 2.
  - All components should be new i.e., shaft, bearings, etc.
2. Comprehensive refurbishment of the existing deflector wheel, as per the specification provided.
  - Replace all the internal components i.e., shaft, bearings, etc.
3. Application of corrosion protection measures to both the new and refurbished deflector wheels to

match existing.

4. Apply grease to the hub to ensure smooth operation

### **3 Scope of Work Requirements**

- 3.1 Appointed bidder to submit a safety file for approval by the safety department prior to commencement of work.
- 3.2 Ensure that the work area is properly demarcated to clearly identify the project boundaries and minimize disruptions to surrounding areas.
- 3.3 Upon completion of work, all rubble and debris must be promptly cleared from the site, and the work area must be left clean and tidy in accordance with environmental and safety standards.
- 3.4 Utilize only SANS/SABS approved materials for the project to ensure compliance with quality and safety standards.
- 3.5 Ensure thorough site cleanup upon completion of all work, leaving no materials, equipment, or debris behind.
- 3.6 Adhere to all relevant safety protocols, including the use of personal protective equipment (PPE) and compliance with site-specific safety regulations.

Provide regular progress updates and adhere to project timelines as agreed upon in the contract.

- 3.7 Obtain necessary permits, approvals, and inspections required for the completion of the project in compliance with local regulations and authorities.
- 3.8 Ensure that all workmanship and installations meet or exceed industry standards and adhere to the specifications outlined in the scope of work.
- 3.9 Site diaries and site instruction books to record progress, instructions, observations, and other relevant details during construction.

### **4 Safety**

The following safety procedures together with the terminal standard operating conditions are to be always adhered to. No exceptions will be tolerated.

- 4.1 All personnel reporting to terminal must come in full Personal Protective Equipment gear(Safety vest, hard hat, and safety shoes)
- 4.2 All Transnet regulations shall be abided to at all time
- 4.3 Vehicles used to be fitted with rotating flashing light and proper company signage

when accessing the terminal.

- 4.4 Only certified or competent technical personnel are required to operate electrical machinery.
- 4.5 All TPT owned equipment or property needs to be signed off by TPT representative before exiting the terminal.
- 4.6 Terminal provides mess and ablution facilities and must always be kept clean.
- 4.7 No discipline irregularities will be condoned. Offenders will be requested to leave the terminal immediately pending a full investigation.
- 4.8 Notification of arrival will be mandatory.

## **5 Operating Hours**

The Durban BBC Terminals operate 24 hours a day. The infrastructure maintenance team mainly works a day shift (06h45 – 15h15 weekdays) and all work should be done during this period. Any work requiring irregular hours should be communicated timeously to a TPT representative and required approvals obtained.

## **6 Access Permit**

### **1.1 Site meeting:**

For the site meeting, all suppliers are required to bring with them the following in order to apply for the required permit:

- Hardcopy of the RFQ.
- Proof of identification for all employees attending.
- Letter from the relevant company stating the names and surnames of the employees requesting access and reason for access.
- Minimum PPE. Safety vest, hard hat, and safety shoes.
- Suppliers are advised to bring any/all required measuring tools for proper pricing.

### **1.2 Conducting the Work**

In order to acquire access permits for conducting work, external contractors will need to attend safety induction (valid for a year). Safety would also advise the need for submitting a safety file. Thereafter application for permits from security can be submitted. For vehicle access, all vehicles are required to have a company sign and a revolving light and access will be obtained

at the security office.

## **7 Site Facilities**

No provisions have been made for the site facilities. Security of the Service Provider's tools, material and machinery remain his responsibility. It is the responsibility of the Service Provider to provide his own machinery, equipment, office facilities etc. wherever necessary and/or required for the completion of the works.

## **8 Pricing Considerations**

The Service Provider must include the following costs in their quotation:

- 8.1 All costs related to preparing and submitting the Safety File for approval by the safety department.
- 8.2 Including all costs associated with equipment hiring, machinery, and tools required for the completion of the project.
- 8.3 Incorporating costs related to hiring any necessary facilities and other charged obligations required for the project.
- 8.4 Including costs related to any professional services required to support the project.

## **9 Supervision**

The Contractor or a responsible person authorized to act on behalf of the Contractor shall maintain constant on-site supervision to receive instructions from the Project Leader and ensure the proper execution of the project.

## **10 Clearing of Site**

The contractor must observe all laws and ordinances governing the disposal of construction waste. The contractor will be required to furnish a plan for disposition of debris. The contractor is hereby notified that the burning on the site is strictly prohibited. The work will not be deemed to be complete unless the site is cleared to the satisfaction of the Project Leader. Burying discarded material will not be tolerated. No combustible material shall be permitted to accumulate on the site. If in the opinion of a safety official that it is becoming a fire hazard; he is empowered to stop all operation to have the hazard removed promptly. All relevant legislation pertaining "WASTE" must be adhered to. Skip to be provided by contractor.

## APPENDIX

### Scope of work specifications

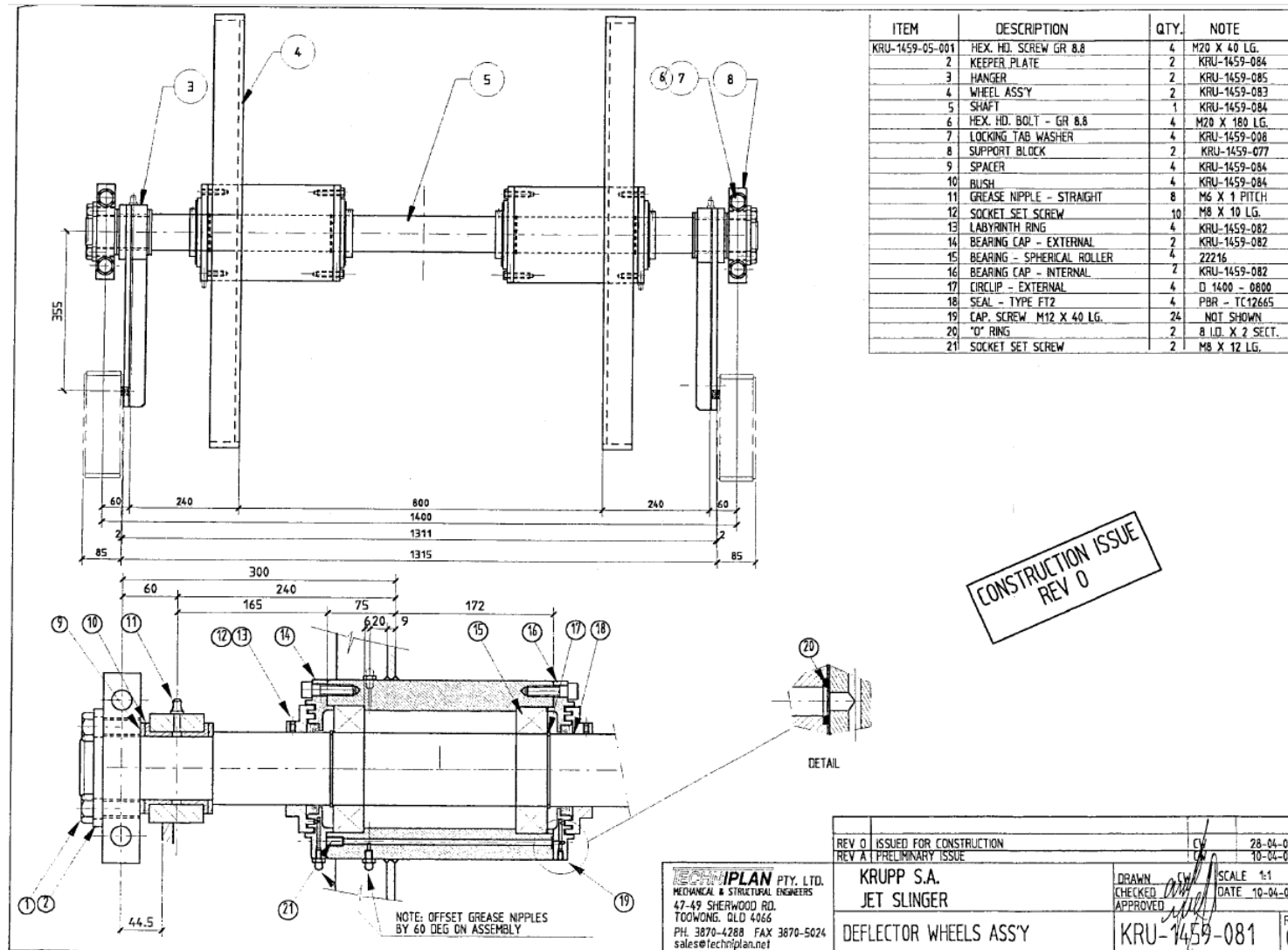


Figure 2: Jet slinger deflector wheel