

## PROVISION OF 703/704 SHUTDOWN RIGGING AND CRANE HIRE AT THE PORT OF RICHARDS BAY

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## 1. Project Overview

Transnet Port Terminal's core business is the handling of bulk and dry bulk commodities, either entering or exiting via the Richards Bay harbour premises. A network of conveyors, storage areas and transfer houses forms the bulk of the infrastructure for the port operations. In addition, ship un-loaders, mobile stackers, re-claimers and ship loaders are some of the larger equipment that is used by the terminal to handle cargo.

In order to achieve the handling of these high volumes, the port requires continuous operation and hence there is a requirement at all times for a rigging crew and crane to be available during the shutdown to support the technical team.

Rigging services and crane hire is required when the technical team is performing these tasks; motors, transformers, and lifting of mechanical & electrical drives and heavy components on conveyor belt systems.

The provision of rigging services is essential in ensuring that the response time for repairs is kept at a minimum during the shutdown and crane hire costs are controlled.

It is important to note that, there is no alternative to the service provision, the service is essential and most technical repair and maintenance work cannot be completed without the rigging service.

## 2. Employer's objective

The purpose of this scope is to hire Crane and rigging service for 703/704 shutdown.

## 3. Site Location

The site is located on the premises of Transnet Port Terminal (TPT) at the Richards Bay Port. The rigging company will service the Export 703/704 Dry Bulk Terminal (DBT)

### The Scope

**A Contractor is required to provide Rigging with the following being the minimum requirements:**

#### 4.1

4.1.1 10 teams of riggers (10 days, 16 hours per day include over time starting from 07h00 to 24h00)

4.1.2 Riggers will work weekend within 10 days (from 06h00 to 22h00)

- 4.1.3 Each team of rigger must consist of (1 rigger/supervisor, 1 semi-skilled and 1 assistance)
- 4.1.4 70 ton and 90 ton crane hire for 10 days (12 hours per day including Saturday and Sunday)
- 4.2 The contractor will be expected to conduct rigging studies and risk assessments before conducting any lifting.
- 4.3 The Contractor will be expected to ensure that all rigging equipment are certified (load tested) and properly inspected prior to using them as per the OHSAct of 1993.
- 4.4 As a minimum, TPT requires the following persons to be part of the rigging crew:
  - 4.4.1 1 x Supervisor (Qualified Rigger).
    - Minimum years practicing as a rigger: 4 years.
    - Minimum Qualifications: SAQA Qual ID 59731 or 13693.
  - 4.4.2 2 x Semi-skilled riggers
    - Minimum years in the Rigging field: 1 year.
    - Qualification: Matric & Basic training in rigging (Working at height, Basic rigging and rigging and slinging).
  - 4.4.3 1 x Assistant
    - Minimum years in the technical field: 6 months working in a technical environment / workshop.
    - Qualification: Not required but the person should have a technical background.
  - 4.4.4 Crane Drivers
    - Although not part of the daily crew (i.e. only required on request), the Supplier needs to ensure that all their crane drivers are certified according to SAQA Qual ID 242982.
- 4.5 As per the above crew structures, the Contractor will be expected to provide a minimum of ten rigging crews during day and three teams at night. These will be shared between the TPT technical team and the external suppliers.

## **4. Contractors' Responsibilities.**

The Contractor shall:

- Provide all the necessary skills, resources, tools, equipment, lifting cranes and expertise to carry out the works;
- Ensure that all their crews are qualified (and trade tested).
- Review, familiarize and understand the proposed site including all constraints and environmental factors that will affect the performance of the contractor.

- Conduct risk assessments before starting any job.
- Review, familiarize and understand the operational requirements of the facilities in the Port of Richards Bay.
- Provide all necessary SHE compliance documentation as per Transnet Port Terminals SHE specifications, including the submission and approval of a Safety File and SHE Officer on site (on instances where the OHSAct requires one).
- Make available any documentation that Transnet might require, these include load test certificates and inspections, job cards and any other relevant document.
- On a fair notice, allow Transnet to conduct site visits and audit the workshop and compliance to the lifting equipment regulations (OHSAct).

## 6. Governing Codes, Standards and Specification

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

Title	Document No.
<b>National &amp; International Standards</b>	
Inspection and testing of non-fixed load-lifting attachments (2008 ver 1).	SANS 687
Inspection, examination and testing of manually operated chain blocks and chain lever hoists in use.	SANS 500:2009 Ed. 1
The inspection, examination and testing of lift trucks.	SANS10388:2008 Ed. 1
Textile slings — Safety Part 1: Flat woven webbing slings made of man-made fibres for general purpose use.	SANS 94-1:2003 Ed. 1
Part 2: Round slings made of man-made fibres for general purpose use.	SANS 94-2:2003
Steel wire ropes for general purposes — Minimum requirements	SANS 2408:2005
Manually operated chain lever hoists	SANS 1636:2007 Ed. 2
Manually operated chain blocks	SANS 1594:2007 Ed 2.1
Non-calibrated round steel link lifting chain and chain slings — Use and maintenance	ISO 3056:1986 Ed. 2
Calibrated round steel link lifting chains — Guidelines to proper use and maintenance	SANS 7592:1983 Ed. 1
Short-link steel chain (close-tolerance) for lifting appliances	SANS 1592:2005 Ed. 1.2
Occupational Health and Safety Act and Regulations	85 of 1993

## 7. 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.

## 8. Workmanship and Compliance to Regulations

The following is expected from the Contractor to ensure compliance to the OHSAct and for good workmanship:

- 8.1. Use of qualified riggers (SAQA ID59731/13693) and well trained crane drivers (SAQA 242982) to carry out the rigging service at all times.
- 8.2. Use of compliant lifting equipment as per the applicable regulations (refer to Section 6 and Section 10 of the Scope of Works).

## **9. Statutory Requirements for the Tools and Machinery**

All the lifting equipment and lifting attachments used should be compliant to the applicable Standards, ACTS, Codes and regulations as listed in Section 6: Governing Codes, Standards and Specifications.

As a minimum, this is:

- i. **Ropes/Chains/Sling**
  - Inspected regularly for damage (minimum once a month).
  - Inspected before use by a Technical person (Tradesperson).
- ii. **Chain blocks/Lever Hoist**
  - Certified – valid load test certificate (minimum once a year).
  - Inspected regularly for damage (minimum once a month).
  - Inspected before use by a Technical person (Tradesperson).
- iii. **Cranes**
  - Certified – valid load test certificate (minimum once a year).
  - Calibrated (when required as recommended during load tests).
  - Inspected regularly for damage by an LMI - Lifting Machinery Inspector (minimum once a month).
  - Inspected before use by a Technical person (Tradesperson).
- iv. **General**
  - Transnet bears the right to request any of these documentation at any stage and can reject the use of equipment if the condition is not acceptable or the documentation is not available.