



**PROVISION OF RIGGING SERVICES AND CRANE HIRE
SERVICES FOR TRANSNET SOC LTD OPERATING AS
TRANSNET PORT TERMINALS AT THE PORT OF
RICHARDS BAY**

Thirty Six (36) Months Service Contract Scope of Work

Scope Approval

Compiled By

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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 to be available timeously to support the technical team to respond to breakdowns.

The works consists of rigging services and crane hire for TPT on an ad hoc basis for a fixed term of thirty-six (36) months. Rigging services and crane hire is required when the technical team is performing these tasks; splicing, pulley repairs, replacing bearings, pulley lagging, lifting mechanical drives and heavy components.

The provision of rigging services is essential in ensuring that the response time for repairs is kept at a minimum during breakdowns 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. TPT's Objective

The purpose of this scope is to implement a rigging service contract which will include crane hire, on an as and when required basis (i.e. ad hoc basis) for a period of thirty-six (36) months.

3. Site Location

The site is located on the premises of Transnet Port Terminal (TPT) at the Richards Bay Port. The contract will service the Dry Bulk Terminal (DBT) and the Multi-Purpose Terminal (MPT).

4. The Scope

A service provider is required to provide rigging and crane hire with the following being the minimum requirements:

- 4.1 Provide rigging services and crane hire to the DBT and MPT technical teams on request.
- 4.2 Be able to provide the following crane sizes on an ad hoc basis to TPT:
 - 4.2.1 8 tons, 16 tons, 20 tons, 30 tons, 35 tons, 50 tons, 80 tons, 90 tons, 100 tons, 120 tons, 160 tons, 200 tons, 220 tons and 250 tons.
- 4.3 The service provider will be expected to conduct rigging studies and risk assessments before conducting any lifting.
- 4.4 The service provider will be expected to ensure that all rigging equipment are certified (load tested) and properly inspected prior to using them as per the OHSAct No. 85 of 1993 or latest.
- 4.5 Staff's skills requirements
As rigging is entirely dependent on the skill, the service provider has to prove that they have at least the following competent tradespersons as part of their rigging personnel:

- 4.5.1 Supervisor (Qualified Rigger).
 - Minimum years practicing as a rigger: eight (8) years port environment
 - Minimum Qualifications: NQF Level 4, Trade Tested Rigger.
- 4.5.2 Semi-skilled riggers
 - Minimum years in the Rigging field: one (1) year.
 - Qualification: Matric & Basic training in rigging (Working at height, Basic rigging and rigging and slinging).
- 4.5.3 Assistant
 - Minimum years in the technical field: six (6) months working in a technical environment/workshop.
 - Qualification: Not required but the person should have a technical background.
- 4.5.4 Crane Drivers
 - Although not part of the daily rigging personal (i.e. only required on request), the Supplier needs to ensure that all their crane drivers are certified according to SAQA Qual ID 242982.
- 4.6 As per the above (i.e. clause 4.5), the service provider will be expected to provide a minimum of three (3) rigging crews at any given time. These will be shared between the TPT's maintenance teams and the standby teams.
- 4.7 To note: the majority of the works/jobs will be covering following activities:
 - 4.7.1 Counter weight rigging
 - Seventy (70%) percent of rigging work in the terminal covers lifting of counter weights. The counterweights are of different weight and arrangements, fifty (50%) percent are heavy counterweights which require **at least four (4) 10-ton chain blocks with long chains** for lifting and twenty (20%) percent are light counterweights which require **at least four (4) 5-ton chain blocks with long chains** for lifting.
 - 4.7.2 Chute rigging on loaders/unloaders
 - Twenty (20%) percent of the rigging work covers the lifting of chutes for ship loaders/unloaders and chutes on conveyor belts
 - 4.7.3 Ad hoc work
 - Ten (10%) percent of the rigging work is based on lifting items for maintenance activities etc.

5. Service Providers' Responsibilities

The *service provider* 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 service provider.
- 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 Specifications

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

Title	Document No.
National & International Standards	
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	No. 85 of 1993
TPT Specifications	
TPT Quality Management Specification for Service provider/Construction	EEAM-Q-009
Transnet's General Health and Safety Requirements and Conditions	RCB TPT SHERQ/RS PRO 033
TPT's Specification for Hydraulic Equipment	EEAM-Q-002
General requirements and conditions (he9-2-9 ver 7) rev 1	EEAM-Q-016

6.1. Company Accreditation

- ISO 9001 certification:
As Transnet is an ISO 9001 certified organisation which strives for the best quality management processes and dealings. The service provider that is to be appointed to provide the rigging service and crane hire should also aspire to these high quality management systems, therefore the service provider is to prove/provide a valid certificate indicating that their company is ISO 9001 accredited.
- Member of Lifting Equipment Engineering Association of South Africa (LEEASA):
Furthermore, to show that service providers are well knowledgeable/informed of any lifting equipment requirements/changes, for this reason a service provider is requested to provide their affiliation with the lifting equipment association.

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 (NQF Level 4, Trade Tested Rigger) and well trained crane drivers (SAQA 242982) to carry out the rigging service at all times.
- 8.2. Use of compliant lifting equipment and attachments as per the applicable regulations (refer to Section 6 and Section 10 of the Scope of Works).

9. Delivery Times

The service provider is expected to commit to response times on callouts for rigging. The contractor will advise the response time (Returnable) - which will be used to evaluate the Contractor. This time will then be the contract time and the Contractor will have to comply with it for the duration of the contract.

Preferably, Transnet Port Terminals Richards Bay, is expecting the response times for callouts on breakdowns to be sixty (60) minutes. This is based on the operational requirements of the Port, which is when there are delays, all efforts are put to ensure the delays are resolved in the shortest time.

10. 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:

10.1 Ropes/Chains/Sling

- Inspected regularly for damage (minimum once a month).
- Inspected before use by a Technical person (Tradesperson).

10.2 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).

10.3 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 every 3 months).
- Inspected before use by a Technical person (Tradesperson).

10.4 General

- The Monthly inspection and load test should be conducted by a qualified LMI as per the Department of Labour (ECSA Registered) and the proper certification and reports signed off and filed.
- 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.