

SERVICES: Hire of 5 Empty Container handlers, for a period of 12 months, at the Cape Town Container Terminal (4100)

Works Information

Site:

Cape Town Container Terminal

Date:

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Compiled by:

Sicelinkosi Ngcobo

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1. INTRODUCTION

Cape Town Container Terminal (CTCT) handles containers through imports and exports, for the terminal to achieve its deliverables. The terminal utilizes equipment for various commodities, for vessels calling at the port. Among other equipment, the terminal is required to utilize Empty Container Handlers (ECH) which are used to stack empty containers on the stacking area and load empty containers to the haulers. It is vital for the terminal to be capacitated to receive and dispatch empty reefer containers effectively to and from the deciduous farmers. The requested equipment influences vessel turnaround times.

2. OBJECTIVE

The objective of this scope of work is to appoint a service provider to supply, deliver, commission, maintain, support and remove five (5) 9-ton Empty Container Handlers for use at Cape Town Container Terminal for a period of twelve (12) months.

The successful service provider shall be responsible for:

- Supply and delivery of five (5) 9-ton Empty Container Handlers.
- Commissioning of equipment upon delivery.
- Full maintenance lease of the equipment for the contract duration.
- Provision of spare parts, labour, consumables and repairs.
- Breakdown support and technical assistance.
- Statutory inspections and testing.
- Monthly equipment inspections and reporting.
- Replacement of equipment when required.
- Decommissioning and removal of equipment upon contract completion.

3. DETAILS OF THE SCOPE OF WORK

Details of the scope of work for the Empty Container Handlers (ECH) are as follows:

- a) Have a safe working load of 9Ton.
- b) Be compliant with all applicable safety regulations onsite.
- c) The hired Empty Container Handler (ECH) must be in good working conditions to survive for the duration of the contract. The Empty Container Handlers (ECH) should not be older than six (6) years or not exceed 20 000 hours.
- d) Upon delivery Cape Town Container Terminal (CTCT) has the right to accept or reject the equipment based on the condition.
- e) The service provider shall provide a replacement machine within two (2) weeks following the failed condition assessment of the machine. The equipment (i.e. checklist)

Operational Checklist

- **Fluid Levels**

- Engine oil level
- Hydraulic oil level
- Coolant level
- Brake fluid level
- Fuel level
- Check for leaks (oil, fuel, hydraulic fluid)

- **Tyres and Wheels**

- Tyre pressure within recommended limits
- No cuts, cracks, or excessive wear

SERVICES: Hire of 5 Empty Container handlers, for a period of 12 months, at the Cape Town Container Terminal (4100)

- Wheel nuts secure
- **Hydraulic System**
 - Hoses and fittings free from leaks or damage
 - Cylinders functioning properly
 - No abnormal noises during movement
- **Electrical System**
 - Battery condition and terminals secure
 - Warning indicators functional
- **Operator Cabin**
 - Cabin cleanliness and visibility
 - Seat condition and seatbelt functional
 - Windows and wipers operational
- **Controls and Instruments**
 - Steering system responsive
 - All control levers functioning correctly
 - Dashboard gauges operational (temperature, pressure, fuel)
 - No warning alarms present at startup
- **Safety Systems**
 - Brake's (service and parking) fully operational
 - Reverse alarm functioning
 - Lights (headlights, brake lights, indicators, beacon)
 - Horn operational
 - Fire extinguisher available, charged, and within inspection date
- **Spreader**
 - Spreader frame condition (no cracks or damage)
 - Twist locks engage and disengage correctly
 - Sensors and locking indicators operational
 - Hydraulic connections secure

4. 5. FULL MAINTENANCE LEASE REQUIREMENTS

The contract shall be on a full maintenance lease basis, including all costs associated with maintaining the equipment in an operational condition throughout the contract period.

The service provider shall be responsible for:

- Scheduled maintenance.
- Corrective maintenance.
- Breakdown repairs.
- Component replacement.
- Labour costs.
- Spare parts.
- Consumables.
- Tyre replacement and repairs.
- Accident-related repairs.
- Hydraulic repairs.
- Electrical repairs.
- OEM service requirements.
- No maintenance-related costs shall be borne by CTCT.

The service provider shall submit complete maintenance records and service history documentation for each machine with tender submission.

SERVICES: Hire of 5 Empty Container handlers, for a period of 12 months, at the Cape Town Container Terminal (4100)

5. EMPTY CONTAINER HANDLER (ECH) SPECIFICATIONS

- a) The Empty Container Handlers (ECH) shall have a lifting capacity of a minimum of 9Ton under the telescopic spreader.
- b) The Empty Container Handlers (ECH) stacker shall be able to negotiate speed bumps and full oscillation of the rear axle is required to allow for working on uneven surfaces.
- c) The spreader lift height with rated load shall be 18 000mm.
- d) The Empty Container Handlers (ECH) shall have a lift speed of 500mm/s with a rated load and 550mm/s empty.
- e) The Empty Container Handlers (ECH) shall have a travel speed of 25km/hr with a rated load and 25km/hr empty.
- f) The spreader side shift shall be 600mm to either side of the centre line.
- g) The mast shall tilt forward at least 3 degrees and backwards at least 3 degrees.
- h) Valid test certificates must be provided for the spreader, including individual test certificates for each twist lock. Where testing is required during the hire period, such testing shall be conducted in accordance with the agreed schedule and within the prescribed timelines. The Service Provider is required to confirm the planned testing activities at least two (2) working days in advance to ensure minimal disruption to operations. The service provider must also submit detailed maintenance schedules to Technical Manager to enable Cape Town Container Terminal (CTCT) to effectively plan and manage equipment outages.
- i) The service provider must conduct monthly physical inspections of the machine and provide documented inspection reports to the Technical Manager.

6. TECHNICAL REQUIREMENTS

a) Telescopic Spreader

- ✓ The side lift spreader must have a lifting capacity of at least 9ton under the twist locks.
- ✓ The spreader must be fitted with an integral hydraulic side shift of 600mm to either side of the centre line.
- ✓ Provision must be made on the spreader to pick up containers from trailers or ground with a slope, i.e. one corner higher / lower than the other.
- ✓ The spreader must be fitted with hydraulically operated twist locks at each of the two corners.
- ✓ All connections, i.e. electrical and hydraulic, must be of a type that can be connected with the minimum delay. The hydraulic couplings should be of the self-sealing leakproof type.
- ✓ The safe working load must be stamped and painted on the spreader by the manufacturer.
- ✓ The spreader indicator lights must be clearly visible from the cab.

b) Load Test Certificates

The service provider shall provide valid load test certificates for each item of equipment upon delivery. These certificates must clearly confirm that the equipment has undergone the required load testing and complies with TPT's annual load testing requirements and operational standards.

SERVICES: Hire of 5 Empty Container handlers, for a period of 12 months, at the Cape Town Container Terminal (4100)

c) Operator's Cab (Ergonomics)

- ✓ A fully enclosed, centre-mounted cab with a sky view window, which is ergonomically designed, well insulated and weatherproof, providing maximum drivers visibility and comfort is required.
- ✓ The operators cab should have a working air-conditioning system.

7. INSURANCE

The service provider shall, at its own cost, procure and maintain comprehensive insurance coverage for Empty Container Handlers (ECHs) for the full duration of the contract. Such insurance shall include, but not be limited to, coverage for damage, loss, accidents, and third-party liability.

The service provider shall bear full responsibility for managing, administering, and processing all insurance claims related to the Empty Container Handlers (ECHs), regardless of the cause of the incident.

In the event of any accident or damage to the equipment, including those arising during operations at Transnet Port Terminals (TPT), the service provider shall:

Take immediate action to repair or replace the affected Empty Container Handlers (ECHs) at its own cost to ensure minimal disruption to operations.

Lodge and pursue all insurance claims directly with its insurer, without recourse to Transnet Port Terminals (TPT). Where an incident involves a third party operating within the Cape Town Container Terminal (CTCT), the Service Provider shall:

- Proceed with the repair or replacement of the affected equipment without delay; and
- Recover all associated costs directly from the relevant insurer or third party, as applicable.

Service provider shall claim from Transnet Port Terminals (TPT) where Transnet Port Terminals (TPT) is responsible for the damage to the equipment excluding damage resulting from wear and tear of components of the machine.

Where damage is done by Transnet Port Terminals (TPT), joined assessment shall be carried out by the service provider and TPT and a market-related claim shall be paid by TPT for the damage.

8. GENERAL REQUIREMENTS AND CONDITIONS

- a) The Service Provider shall be fully responsible for all maintenance/ services or repairs for the hired Empty Container Handlers (ECH) while on terminal premises and all associated costs thereof will be for the Service Provider and not the terminal.
- b) The full maintenance should include all services, wear and tears, repairs required as per the manufacture's schedule including all labour, parts and consumables.
- c) The Service Provider shall be responsible for the delivery and commissioning of equipment at terminal premises as per Transnet Port Terminals (TPT) instructions. Upon completion of the contract, the Service Provider will be required to do decommission and remove the equipment off-site by similar means of transport at no additional cost.
- d) Fueling of the Empty Container Handlers (ECHs) will be provided by the terminal for the duration of the contract.

SERVICES: Hire of 5 Empty Container handlers, for a period of 12 months, at the Cape Town Container Terminal (4100)

- e) The Empty Container Handlers (ECHs) will be operated by TPT certified operators.
- f) The empty container handlers should not be older than six (6) years or not exceed 20 000 hours.
- g) Empty Container Handlers (ECHs) demand availability shall be 95%. Penalty of 1% of the premium shall be deducted for every 1% reduction in demand availability.
- h) Availability shall be calculated as total hours available hours in a calendar month subtract the total breakdown time.
- i) Breakdown response and resolution time shall be two (2) hours during the day (06:00am to 18:00pm) and three (3) hours during the night (18:00pm to 06:00am).

9. GENERAL SAFETY AND COMPLIANCE SPECIFICATIONS

a) Compulsory Returnable Document

- ✓ The following document is a compulsory returnable document for service providers that conduct any physical work on-site to SHERQ:
- ✓ SHE File that complies with TPT SHERQ-RS PRO 027 TPT SHERQ Service Provider Specifications Procedure will be required from successful bidder, and SHE File check list will be sent by Transnet Port Terminals (TPT).

b) Delivery Location of Empty Container Handlers (ECHs)

Service provider to ensure ECH are delivered to the following address:

Transnet Port Terminals

Container Road

Paarden Eiland

7405

c) Guarantees

The service provider should guarantee the equipment supplied is in accordance with the specific requirements for the period of twelve (12) months.

d) Safety Specifications Requirements

- ✓ The Empty Container Handler (ECH) shall comply with the South African Occupational Health and Safety Act 85 of 1993 as amended.
- ✓ Access steps and safety handrails shall be provided on both sides of the Empty Container Handler (ECH).
- ✓ Warning stickers shall be provided at all locations on the Empty Container Handler (ECH) that impose a danger.
- ✓ Fire extinguishers shall be provided as per Fire and Safety Act.
- ✓ An audible hooter shall be fitted with a minimum sound level of 93dB as per SANS 10169:2004.
- ✓ An automatic reverse warning sound mechanism shall be fitted and shall be in the range of 80 – 85 dB.
- ✓ An amber strobe light shall be fitted in such a manner as to not hinder the operator.
- ✓ The successful bidder must cover all costs associated with the safety file.

SERVICES: Hire of 5 Empty Container handlers, for a period of 12 months, at the Cape Town Container Terminal (4100)

8. DOCUMENTATION REQUIREMENTS

a) Documentation on submission of proposal

The service provider must supply the following documentation on the submission of the proposal:

- ✓ A comprehensive programme detailing the lease/rental arrangement for the Empty Container Handlers (ECHs). This shall include the Original Equipment Manufacturer (OEM) operating manuals to ensure correct operation and safe usage of the equipment.
- ✓ Method statement outlining the step-by-step procedures for the safe loading, transportation, off-loading, and positioning of the Empty Container Handlers (ECHs) upon delivery to site. The Service Provider shall bear full responsibility for all loading and off-loading activities, including the provision of suitable equipment, competent personnel, and implementation of all required safety measures to ensure that the process is conducted safely and without risk to personnel, equipment, or infrastructure.
- ✓ Quality Control Checklist for inspection of delivered Empty Container Handlers (ECHs) or Operator's checklist for pre-inspection during the usage of equipment.
- ✓ A detailed risk assessment of all potential hazards identified relevant risk ratings of the potential hazards and recommended / remedial actions to be taken to reduce these potential hazards.

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