

REQ NO: 11227252

PLEASE QUOTE ON YOUR COMPANY LETTER HEAD

PLEASE SUPPLY COMPANY DETAILS

DESCRIPTION:

N07 drive gearbox & fluid coupling service and repairs as per Scope of Work

For more info please contact Max on 0837836898

Contact Person : Maxwell.Motloheloa@transnet.net

Buyer : navenderan.reddy@transnet.net

Quotation Instructions:

- 1) Quotations must be in a sealed envelope with the seal signed by the sender.
- 2) Please remember to quote the reference number on the Request for Quotation AND on the envelope with description.
- 3) Envelopes must be deposited into the Quotation Box at the Regional Procurement Office :

Shed 7A, Crofts Road, Maydon Wharf , Durban, 4057

- Incomplete Quotations will not be accepted.

- All quotations must have the following:

- a) Validity period: Transnet requires a validity period of 90 [ninety] Business Days from the closing date of this RFQ/Quotation, b) Guarantees / Warranties, c) Completion period,
- d) Delivery date / Lead Time/ Stock Availability.

4) No late quotations will be accepted.

5) **PLEASE ATTACH BBBEE Certificate/Affidavit. & CSD PROOF OF REGISTRATION, VALID TAX CLEARANCE CERTIFICATE**

6) Terms and conditions of RFQ will be available on request

7) TPT have the right to split the award of the order/s between more than one

Supplier/Service Provider should it at Transnet's discretion be more advantageous in terms of, amongst others, cost or developmental considerations

8) Adhere to all SOW requirements.

- 9) The value of this bid is estimated to **not exceed** R50 000 000 (all applicable taxes included) and therefore the 80/20 preference point system shall be applicable.
- **Please refrain from stapling and punching holes on your tender documents**

This Request will close on: Date: 20th April 2021, Time: 12:00pm



TRANSNET PORT TERMINALS

TENDER NUMBER:

DESCRIPTION OF THE WORKS: N07 DRIVE GEARBOX AND FLUID COUPLING SERVICE AND REPAIRS FOR TRANSNET SOC LTD (REG. NO 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS (HEREINAFTER REFERRED TO AS "TPT") FOR PORT OF RICHARDS BAY – PORT RAIL TERMINAL (PRT).

SCOPE OF WORK

N07 Drive Gearbox and Fluid Coupling Service and Repairs 2021 Tippler 2 Route Shutdown



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0. Tender Authorization Signatures

Compiled By:

Maxwell Motloheola

Technical Manager - Storage

Approved By:

Bheka Gumede

Engineering Manager - Storage

Approved By:

Vusi Mfekayi

Act. Senior Engineering Manager

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1 Overview of the works

1.1 Executive Overview

Port Rail terminals handle bulk commodity through the utilization of tippers, conveyor belts and associate equipment. N07 conveyor belt plays a critical role in carrying commodity from Tippler 2 to the stockpiles through the magnetite route

The N07 drive gearbox and fluid coupling service and repairs cycle period in now due, and it is critical that service/repairs to be done to avoid operational failures

NB: Any deviation from the scope needs to be authorised by Engineering manager before the work is performed.

The scope covers mechanical work on the following:

- N07 drive gearbox service and repairs
- N07 drive fluid coupling

2 Preamble to Works Information Scope of Work

The gearbox and fluid coupling parts are to be dismantled/replaced and assembled in a logical sequence to ensure quality work. The Tenderer shall provide a methodology statement on how the service/repairs shall be carried out.

NB:

1. *Full quality assurance to be done and recorded*
2. *Site visit will be conducted to indicate the equipment and components for scope clarifications and details, further site visits should be arranged through the buyer and Engineering/Technical manager*

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3 Mechanical Work

3.1 N07 Gearbox and Fluid Coupling Service/Repairs

- 3.1.1 Remove gearbox and fluid coupling from N07 conveyor to supplier's premises
- 3.1.2 Drain the old oil from the gearbox and strip
- 3.1.3 Inspect gearbox casing for cracks and damages
- 3.1.4 Clean the box/casing and paint with grey according to Transnet corrosion specification (Ref: EEAM – Q – 008)
- 3.1.5 MPI crack detect all gears and shafts to be re-used (by qualified Technician)
- 3.1.6 Dress worn gear teeth if necessary (wear up to 15%)
- 3.1.7 Pre-machine the worn shafts, arc spray and final grind to sizes
- 3.1.8 Supply and replace bearings, seals and circlips
- 3.1.9 Replace all bolts and fittings with new
- 3.1.10 Supply and Install the new breather
- 3.1.11 Supply and fit valve for oil sampling (Transnet will advise the position)
- 3.1.12 Inspect flange coupling, pins and buffers (advise Transnet Technical manager on findings)
- 3.1.13 Fill the gearbox with gear oil (460 grade) and test it in the test bay to check vibration and temperature, etc.
- 3.1.14 Strip and Inspect fluid coupling casing and other parts for defects
- 3.1.15 Supply and replace seals, worn bushes and fusible plugs
- 3.1.16 Balance the coupling and use grade 46 oil for testing

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- 3.1.17 Deliver to side, Install and do laser alignment on the whole drive (motor, gearbox and pulley)
- 3.1.18 Supply grade 460 gear oil for gearbox and grade 46 hydraulic oil for fluid coupling
- 3.1.19 Provide data pack that includes test certificates, Laser alignment report, list of parts replaced, repaired and defects found
- 3.1.20 Commission the conveyor and hand over to Transnet

4 Services specifications as per TPT and OEM requirements

The following TPT specifications are included as applicable in the scope of work:

Quality Control	EEAM – Q - 009
Corrosion and Protection	EEAM - Q - 008

5 Constraints on how the Supplier Provides the Goods and Services

5.1 Groundwork for the Services

The service provider will have to fully inspect the gearbox for the work to be carried on and immediately inform the Engineering/Technical Manager of any defects discovered during the inspection process that may affect the work as detailed in this specification.

5.2 The general requirement and conditions

- 5.2.1 The contractor is required to execute the site work such that it does not interfere with other terminal's operations.
- 5.2.2 The contractor is required to plan their resources and maintain working hours in a manner to ensure that all the scope of work is completed within the agreed time schedule.

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- 5.2.3 All contractors are to always wear all necessary PPE (Personal Protective Equipment) and work safely. Part of these PPE includes reflective vest
- 5.2.4 No plant operation must be interrupted or isolated without the section supervisor's authority.
- 5.2.5 The contractor is required to attain relevant permits (Permit to work, Isolations, and permit to work for a task e.g. hot work) through the Transnet Supervisor/Technical Manager before commencing any work
- 5.2.6 TPT to do continuous inspection during entire repair process
- 5.2.7 OEM or SABS approved parts to be used
- 5.2.8 12 months warrant on workmanship

6 Site Access

The site is at the Bulk Terminal in the Port of Richards Bay. Access to the Port of Richards Bay will be through the East or West Access Gates and will be subject to the TPT security requirements and regulations.

7 Exclusions

Hiring/ Provision of mobile or fixed crane and rigging teams

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REPAIR OF GEARBOXES FOR TRANSNET PORT TERMINALS AT THE PORT OF RICHARDS BAY

Req:



CRITERIA	DESCRIPTION	WEIGHT (Points)	SCORING PRINCIPAL	Supplier 1		Supplier 2		Supplier 3		Supplier 4	
				Score	Comments	Score	Comments	Score	Comments	Score	Comments
1. Construction Industry Development Board (cibb) Registration or Experience in executing contracts of equivalent scope magnitude	A service provider is required to submit proof of registration with cibb as Mechanical Engineering (ME) within the required grade as per contract value.	N/A	2ME registration Yes/No								
1. Experience	The supplier must provide proof that they have repaired conveyor gearboxes before by supplying at least 2 PO's for the work done in the past 2 years with a value above R150k	N/A	2 PO's > R250k submitted Yes/No								
2. Delivery schedule	The supplier must send a written confirmation that they will complete the work within 6 days after receiving the order	N/A	6 days or less delivery Yes/No								

ELIGIBILITY

Requested By: Bheka Gumede
 Name: _____
 Designation: Engineering Manager
 Sign: [Signature]
 Date: 15/03/2024

Approved By: _____
 Name: Vusi Mfekayi
 Designation: Act. Senior Engineering Manager
 Sign: [Signature]
 Date: _____