

Scope of work

1. Description of the works

1.1. Overview

The Ship Repair Department within the Port of Cape town consist of three facilities, namely Sturrock and Robinson Dry docks, as well as a Syncrolift Facility. These facilities work in conjunction with one another to service the ship repair industry, and the requirements of vessels making use of the industrial services.

The 2 graving docks, Sturrock and Robinson Dry Docks (SDD and RDD), consists of a narrowed basin, which is attached to a larger basin or body of water and divided by means of a sluice gate. This narrowed basin can be flooded and dewatered on command, making allowance for vessels to be floated in and docked on a prepared bed when the basin is dewatered. This allows for vessel repairs to be conducted within a dry environment.

The Syncrolift dry dock, situated towards the southwestern end of the Port, is one of the three dry docks in the Port of Cape Town. The dock employs the Syncrolift® system that is used for lifting boats and ships out of the water for maintenance work or repair. The vessel is manoeuvred over a submerged cradle assembly and lifted out of the water by a set of synchronized hoists or winches. These winches are connected to horizontal running beams, which acts as the main lifting structure beneath the vessel.

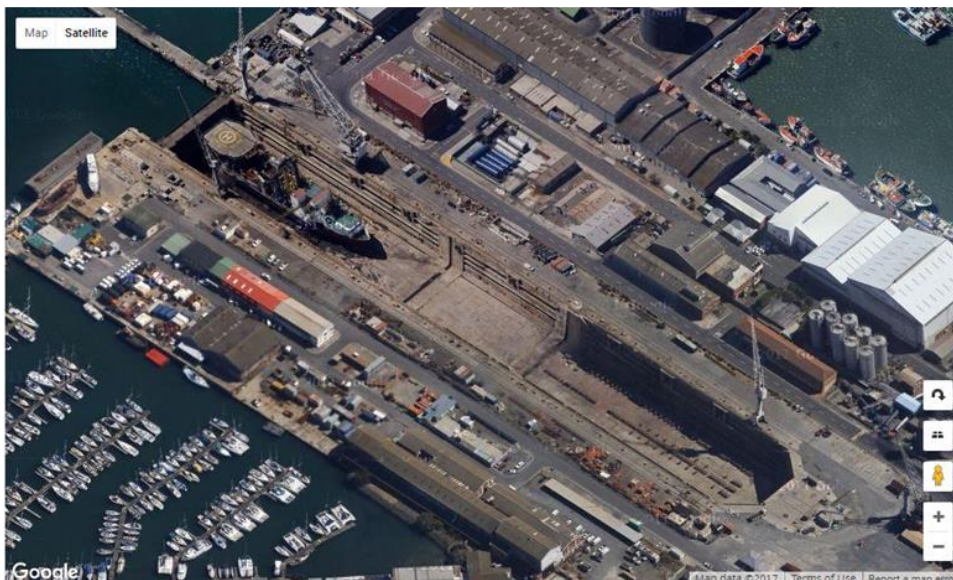


Figure 1. Overview of one of the graving docks, Sturrock Dry Dock



Figure 2 Overview of one of the Syncrolift

1.2. Employer's Objective

The Employer's Business objectives are:

- a) Ensure the optimal and efficient procurement of any and all consumables used within the Ship Repair facilities, as listed on the scope and schedule of rates.
- b) This contract specifically looks at ensuring the continued serviceability of the Ship Repair facilities, by ensuring the availability of the consumables used and the efficient procurement thereof.

The Employer's Project/Contract objectives are:

- a) Appointment of contractor on an a once off basis to supply Ship Repair with the required listed consumables.
- b) The delivered product must be inclusive material certificates as specified by TNPA on this C3 document on delivery.
- c) The project Manager will check the material certificates for quality purposes.

The contract, being a supply contract shall be rate based for the provision of the listed items or works incorporated in the Schedule of rates document. The **Tenderer** shall have agreed upon rates for the items listed in the schedule, and supply orders shall be put in against these rates on a once off basis with the **Appointed contractor**.

The **Appointed Contractor** shall also be aware of the interface of the supply and delivery of rolling stock with Dock Operations and make sufficient allowance in his packages accordingly when they are being developed. No claim of any nature whatsoever will be considered after the submission of tenders due to the failure on the part of the **Appointed Contractor/s** to fulfil this obligation.

The following abbreviations are used in this Works Information:

Abbreviation	Meaning given to the abbreviation
QA/QC	Quality Assurance/Quality Control
SANS	South African National Standards
SES	Standard Environmental Specification
SHE	Safety, Health and Environment
QCP	Quality Control Plan
QTY	Quantity

2. Supply order contract design

2.1. Supply order contracting strategy and packages.

The employer's contracting strategy and intended goals for the works are:

- a) The contract scope shall be in accordance with all consumables and supplies used within the Ship Repair, specifically targeting the maintenance consumables required within the Port of Cape Town.
- b) The various supply packages shall be comprised of line items captured in the schedule of rates, classified into the following sub-groups under the schedule of rates:

Supply Package – Schedule of Rates – Docking Blocks Supply

The contract shall allow for the supply of various sizes of plastic & wood docking blocks profiles, as listed within the schedule of rates. The rates shall be inclusive of all costs pertaining to the procurement, supply, and delivery of the docking blocks. There will be a minimum order size for delivery to be made feasible to the contractor, the quantities may be delivered according to the delivery schedule submitted by the Supplier to TNPA, and the Project Manager will keep track of all the items received until all have been delivered in full.

The agreed upon specifications are as follows:

2.2. Plastic docking blocks

Mechanical properties for plastic docking blocks are as follows: A4 DDQ

UV-stabilized, no moisture absorption, does not get effected by weather, does not shatter, crack nor break, Compression moulded with a, minimum of 600 N / cm², Density 0.95 g / cm³, Silicon free, Glass filled, Shore hardness D 68, Notched, impact strength: kJ / m² ≥ 80 (DIN 53453) see table 1 below for bill of quantity.

Dimensions will be shared on the C2 document with different sizes of the docking blocks.

2.3. Wood Docking blocks

Sizes of the different wood will be shared on the C2 (price schedule) document.

The bidders must provide data sheets for the species they intend to supply with characteristics not less than the mechanical properties listed below.

The service provider must prove that the material quoted meets the requirements and quality checks will be done by TNPA before receipt of wood.

Mechanical Properties

Botanical name Eucalyptus Saligna	Origin of timber tested South Africa
Air Dry Density 850kg /m ³	Modulus of Rupture (MOR) 128 MPa
Modulus of Elasticity 10249MPa	Compression Parallel to grain 69,6MPa
Compression perpendicular to grain 19.3MPa	Hardness Rating (Side grain) 7416N
Hardness Rating (End grain) 9043N	Shear Parallel to grain 12.8MPa
Impact bending 35.6Nm	

2.4. Supply order procedure

The conception of a supply order shall commence with an official communication from the Supply Manager/Employer's Representative. No unauthorised personnel will be allowed to initiate a supply order, and these orders will not be billable by the contractor. The quantities of the supply order shall be communicated by the Supply Manager/Employer's Representative, and shall follow the following steps:

- The contractor shall receive formal communication from Procurement for clarity on the advertised tender for governance compliance.
- The winning tenderer will receive formal communication from Procurement once the tender process has been finalised.
- Procurement will communicate with the winning tenderer the appointed Project Manager for communication purposes.
- Project manager will arrange a project kick off meeting with the winning tenderer.

The Contractor shall submit as part of each supply order package:

- a) A supply order package specific schedule, indicating timeframes for procurement and delivery dates.

- b) A quality file, including all material certificates where applicable, guaranty and warranty cards and properties of material delivered.
- c) Delivery notes and invoices at delivery.

2.5. Documentation Control

The Contractor shall submit all documentation complying with the Employer's standards and requirements. The Employer will issue all relevant documentation and drawings, including revisions, to the Contractor, but control, maintenance and handling of these documents will be the Contractor's sole responsibility and at its expense, and managed with a suitable document control system.

2.6. Health and Safety Management

The employer has a strict Health and Safety policy. Under the policy, the following apply:

- a) The Contractor's attention is directed to the TNPA SHE Specification for Construction, and in particular to his Health & Safety Management Plan, which must be submitted with his tender, as well as the requirements of the Occupational Health and Safety (OHS) Act, 1993 (Act 85 of 1993) as amended and Regulations issued in terms thereof or un-repealed regulations issued in terms of the former Act no. 6 of 1983, in their entirety.
- b) The Contractor makes available and ensures compliance to the OHS Act by its employees and Subcontractors in the language of this contract and indicates this within the Master Health & Safety Management Plan.
- c) The Contractor employs his own health and safety coordinator to ensure compliance with both TNPA SHE Specification for Construction (where applicable) and the Occupational Health & Safety Act and its latest regulations.
- d) The Contractor shall provide a Master Health & Safety Management Plan addressing the requirements in the OHS Act and a Baseline Risk Assessment addressing the fabrication activities within his/her workspaces.
- e) The compliance with all applicable legislation, regulations issued in terms thereof, and the Transnet safety rules, shall be entirely at the Contractor's cost, and shall be deemed to be allowed for in the tendered prices.
- f) Without derogating from the Act or any un-repealed regulations issued in terms of legislation, or without purporting to limit the Contractor's responsibilities, the following are brought to the Contractor's attention:

- The Contractor shall advise the Supply Manager/Employer's Representative of any hazardous, or potentially hazardous situation, which may arise from work being performed either by the Contractor or Sub-Contractor.
 - The Contractor and his staff shall attend a compulsory induction course to be arranged by the Employer to ensure access to site when required.
- g) The OHS Act (Act 85 of 1993) clearly states in the Safety Regulations Clause No. 2A: "INTOXICATION" An employer or user, as the case may be, shall not permit any person who appears to be under the influence of intoxicating liquor or drugs, to enter or remain at a workplace". The Employer enforces this legislation by means of its Substance Abuse Policy, and therefore reserves the right to do substance abuse testing on anyone who enters his premises.

2.7. Environmental constraints and management

- a) The *Contractor* shall ensure that all delivery drivers are informed of all procedures and restrictions (e.g. which access roads to use, no go areas, speed limits, noise, etc.) required by the EMP and Supply Manager/Employer's Representative before they arrive at Site and off-load any Materials.

2.8. Quality assurance requirements

- a) Transnet will have the right to inspect the work at any time during the progress of the contract.
- b) The Supply Manager/Employer's Representative indicates those documents required to be submitted for information, review or acceptance and the Contractor indicates such requirements within his register of documents. The register shall indicate the dates of issue of the documents with the Supply Manager/Employer's Representative responding to documents submitted by the Contractor for review or acceptance within the period for reply prior to such documents being used by the Contractor.
- c) The properties of material means the Contractor's shall provide proof of material supplied for quality assurance of goods delivered to TNPA.
- d) If any of the goods delivered needs to be returned back to Supplier's site access will be granted by the Project Manager through a signed release form for TNPA Security to check items leaving the site if they all listed on the signed release form.

2.9. Payment, Invoicing and Cash flow

The contractor shall invoice on delivery of a supply order and shall be paid accordingly against the agreed upon quotation that was accepted at the conception of the supply order. All invoices must be submitted on or before the 20th of each month for payment after 30 days of acceptance.

2.10. Services and other things provided by the Employer.

- a) The employer will provide the contractor with the following:
 - Access permit to the Port
 - Dedicated laydown area for deliveries.

- b) The employer will endeavour to provide the appointed contractor with all available information that may facilitate the progress of the project. However, in cases where such information is not available, the contractor shall point out to the Employer for advice on steps to be taken.