

Transnet Port Terminals

Scope of Work

**DESCRIPTION: COMPRESSOR BUILDING REPAIRS AND WATER
PROOFING DURBAN MAYDON WHARF TERMINAL FOR TRANSNET PORT
TERMINALS, OPERATING DIVISION OF TRANSNET SOC Ltd (Reg. 1990/000900/30)**



1. Background

- 1.1. Transnet Port Terminals (TPT) Maydon Wharf-Agri Terminal is integral to the handling of bulk cargo commodities entering or exiting via Durban harbor. Ensuring that terminal facilities are in optimal working conditions is crucial for meeting health and safety requirements and fostering a safe and protective environment for equipment and employees.
- 1.2. The Facility Department seeks to appoint a service provider to do roofing and building works at Compressor House at the Agri Port Terminal.

2. Scope Of Work

2.1 Scope Of Work Requirements

- 2.1.1 Supply installation, roofing, waterproofing, carpentry, sheet-metal, manufacturing, painting, and brickworks as per scope requirements.
- 2.1.2 The appointed bidder service provider will be required to submit a safety file to our Safety Department for approval before the commencement of work.

2.2 Scope of Work Specification

Compressor Building – Back of Grain Elevator Building

- 2.2.1 Remove existing roof structure and side cladding
- 2.2.2 Raise the two sides of the cladding to allow for bind walls to be installed on either side of the steelworks. Bind walls are to be built inside the cladding, $\pm 200\text{mm}$ high, and plastered
- 2.2.3 Treat the side cladding steel work for rust and paint three coats of blue Plascon enamel paint
- 2.2.4 Install 'industrial 7' blue aluminium sheets on the side cladding. Side cladding to be installed on every flute (corrugation) with galvanized self-drilling text screws with roof washers. .0,8 mm thick sheets and side cladding to be 100mm off the ground
- 2.2.5 The side cladding on both sides is $\pm 3,2\text{m}$ (H) x $\pm 2,650\text{m}$ (w). It will change as the roof structure (new) pitch is changing
- 2.2.6 The new roof structure needs to be installed at a pitch 20 degrees
- 2.2.7 The roof structure beams are to be made from galvanized lip channel of $\pm 150\text{mm} \times 50\text{mm} \times 3\text{mm}$ powder coated white
- 2.2.8 Support posts, braces, and brackets for the new roof structure are to be galvanized and powder-coated white to be installed, bolted with galvanized bolts to silos, walls, and floors.
- 2.2.9 The front cladding between the two silos and roof is to be blue 'industrial 7' aluminium sheets, side cladding to be installed on every flute (corrugation) with galvanized self-drilling text screws with roof washers. Allow for pipework to pass through and seal around the pipe.
- 2.2.10 Install 'industrial 7' aluminium sheets of blue to the roof. The thickness of the sheets should be 0.8mm; the roof sheets are to be secured on every top flute (corrugation) and sealed with silicone sealer. Galvanized self-drilling text screws with roof washers are to be used. The roof area is ± 50 square meters.

- 2.2.11 The sheeting is to have an overhang of $\pm 400\text{mm}$ in front and back. The side cladding sides are to have a $\pm 300\text{mm}$ overhang on the sides.
- 2.2.12 Install 0.8mm aluminium blue sheet metals, barge boards where possible and profile flashing where required.
- 2.2.13 When installing the aluminium roof sheeting, put insulation tape between the sheeting and structures for roofs, such as different types of metals.
- 2.2.14 Remove and replace existing sliding doors and remove the old wooden frame on the door slides
- 2.2.15 Repair the bund wall plaster by the door floor.
- 2.2.16 Install new galvanized sliding door complete with padlock mechanism on the outside as per opening $\pm 2.1\text{ m(H)} \times \pm 1,715\text{m (w)}$, allow for external mounting as per existing, and please take into account that it is the weather side. A possible small opening above the door is required and sealed to prevent water from coming in the doorway. Door to galvanize.
- 2.2.17 Paint the door with metal primer and paint with Plascon green paint x3 coats
- 2.2.18 Waterproof the roof against the silos and the compressor vent. Waterproof side cladding to prevent water from coming inside the compressor room.
- 2.2.19 Break out opening into the wall as per the site meeting. The opening size is $\pm 2,650\text{m (H)} \times \pm 2,1\text{m(W)}$ with concrete-lintels to be installed above the opening, plaster a band around the opening and sides as per the site meeting.
- 2.2.20 Install an industrial roller chain operated galvanized door as per the opening in the inside of the door opening. Lockable from the inside.
- 2.2.21 Paint the lintel area above the galvanized roller door yellow and black chevron. Aluminium height restriction sign of $\pm 2.6\text{ m}$, allowing for 50mm clearance, not 2.650 m.
- 2.2.22 Install a $\pm 100\text{mm (H)}$ ramp on the inside side of the galvanized roller shutter door. The ramp is to be about 300mm wide in a "U" shape as per the site meeting and to be painted yellow and black chevron 100mm apart.
- 2.2.23 Beam fill between the roof and brickwork where necessary. Make a plaster band around the roof where necessary.
- 2.2.24 Replace 5X each double LED lights IP55 lights, waterproof type, as per the existing sort out cable trunking. COC is required for the electrical work carried out.
- 2.2.25 Prepare and prepare the floor with Plascon green stoep paint X3 coats

Compressor Building – Infront of Grain Elevator Building

- 2.2.26 Remove existing roof sheeting and vent. Vent to be replaced on new roof sheeting as per existing.
- 2.2.27 Install aluminium industrial 7 blue roof sheeting to the roof. Roof screws to be installed on every top flute and sealed with clear silicone sealer. Self-drilling text screws with roof washers are to be used. The area is $\pm 28,5$ square meters, sheet thickness is 0.8mm.
- 2.2.28 Install 0.8mm aluminium blue barge board on the 2 sides and to be strongly secured due to heavy winds.
- 2.2.29 Install the existing vent to the roof with flashing and waterproof it around to prevent any leaks.
- 2.2.30 Fabricate and install flashing to prevent water from standing on the higher side of the vent.

2.2.31 All old steel to remain the property of Transnet Port Terminals and moved to the steel waste site within the terminal.

2.2.32 Clean and clear site.

3. Quality control and testing

3.1 Adhesion test: peel adhesion ≥ 1.0 N/mm after 24 hours.

3.2 Visual inspection: no bubbles, wrinkles, or unsealed overlaps.

3.3 Water test: simulated rain spray over a 1 m length for 5 minutes; no leakage

4. Additional Information Requirements:

- 4.1. All measurements listed are only a guide; the contractor is responsible for conducting accurate measurements and verifying dimensions at the work site.
- 4.2. Ensure that the work area is properly demarcated to identify the project boundaries and minimize disruptions to surrounding areas.
- 4.3. Upon completion of work, all rubble and debris must be promptly cleared from the site, and the work area must be left clean and tidy following environmental and safety standards.
- 4.4. Utilize only SANS/SABS-approved materials for the project to ensure compliance with quality and safety standards.
- 4.5. Any damaged steel removed during the project belongs to TPT (Transnet Port Terminals) and will be handed over to the Civil Workshop as directed.
- 4.6. Colors of paints will be communicated to the awarded contractor during site meetings to ensure uniformity and compliance with project specifications.
- 4.7. Site diaries and site instruction books to record progress, instructions, observations, and other relevant details during construction.

5. Guarantee

- 5.1. Materials: 10 years
- 5.2. Period: 10 years from the date of practical completion.
- 5.3. Coverage: waterproof failure due to material defects or workmanship (excludes damage from impact, structural movement beyond 2mm, or third-party works)

6. Quality of workmanship and materials.

The awarded Service provider is to adhere to the below Employer Specifications, where applicable.

- 6.1. Workmanship Guarantee: 12 months.
- 6.2. SANS 10400-XA: Roof waterproofing performance
- 6.3. SANS 10126: General roof maintenance
- 6.4. Manufacturer data sheets for primers, sealants & membranes
- 6.5. EEAM-Q-008 - Corrosion protection
- 6.6. EEAM-Q-009 - Quality Management
- 6.7. EEAM-Q-013 - Commissioning and handing over Rev1.

7. Safety

All personnel reporting to the Terminal must come in full Personal Protective Equipment gear (safety vest, hard hat, and safety shoes).

- 7.1.1 Vehicles used to be fitted with rotating flashing lights and proper company signage when accessing the terminal.
- 7.1.2 Only certified or competent technical personnel are required to operate electrical machinery.
- 7.1.3 All TPT-owned equipment or property needs to be signed off by TPT representatives before exiting the terminal.
- 7.1.4 Obtain necessary permits, approvals, and inspections required for the completion of the project in compliance with local regulations and authorities.
- 7.1.5 Adhere to all relevant safety protocols, including the use of personal protective equipment (PPE) and compliance with site-specific safety regulations
- 7.1.6 The terminal provides mess and ablution facilities and must always be kept clean.
- 7.1.7 No discipline irregularities will be condoned. Offenders will be requested to leave the terminal immediately pending a full investigation.
- 7.1.8 Notification of arrival will be mandatory.

8. Pricing Considerations

The service provider must quote as follows:

- 6.1. All costs relating to the safety file and requirements are to be included in the bidder's quotation.
- 6.2. The service provider must quote on all items as listed in section 2.2
- 6.3. All costs relating to the equipment hiring, machinery, and specialized skills are to be included in the bid for the success of this project.

9. Operating Hours

The Durban BBC Terminals operate 24 hours a day. The infrastructure maintenance team mainly works a day shift (06h45 – 15h15), and all work should be done during this period. Any work requiring irregular hours should be communicated timeously to a TPT representative and required approvals obtained.

10. Access Permit

For the site meeting, all suppliers are required to bring with them the following to apply for the required permit:

- Hardcopy of the RFQ.
- Proof of identification for all employees attending.
- A letter from the relevant company stating the names and surnames of the employees requesting access and the reason for access.
- Minimum PPE. Safety vest, hard hat, and safety shoes.
- Suppliers are advised to bring any/all required measuring tools for proper pricing.

11. Conducting The Work

To acquire access permits for conducting work, external contractors will need to attend a safety induction (valid for a year). Safety would also advise the need to submit a safety file. Thereafter, applications for permits from security can be submitted. For vehicle access, all

vehicles are required to have a company sign and be equipped with a flashing light, and access will be obtained at the security office.

12. Site Laydown Area

No provisions have been made for a laydown area. Security of the Service Provider's tools, materials, and machinery remains the responsibility of the Service Provider.