
PE CONTAINER TERMINAL.

Document Title:

SCOPE OF WORK

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Service and load test of two A-Check weighbridge at Transnet Soc Limited (Reg. no. 1990/000900/30) Operating as Transnet Port Terminals (hereinafter referred to as "TPT") at the Port of Port Elizabeth Container Terminal as a once-off service.
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DOCUMENT PREPARATION

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1. PECT BACKGROUND.

Port Elizabeth Container Terminal (PECT) operates in loading and offloading containers, and manganese skip operations via STS cranes, revolvers spreaders, 20 /40ft spreaders and straddle carriers. The terminal has three cranes and the demand for these cranes is high due to high berth occupancy. The crane is utilised on a weekly basis for container and skiptainer operations. A single vessel requires at least two cranes minimum for operation to ensure optimal vessel turnaround time. PECT has procured two mobile harbour cranes to assist operations.

2. OBJECTIVE.

The main objective of this Scope of Work (SOW) is to conduct the service and load testing of the weighbridge located at the Port Elizabeth Container Terminal (A-Check), ensuring the full functionality, accuracy, and safety of the system.

3. SCOPE OF WORK.

3.1. *Note:* Contractor to submit Legal Metrology Act or similar accredited association for measuring instruments.

3.2. Service Provider to submit a letter confirming to comply with the scope of work.

3.3. The scope of this service includes a full inspection, service, repair and load testing of the weighbridge at the **Port Elizabeth Container Terminal**, focusing on safety, structural integrity, and operational functionality. The contractor shall perform the following tasks but not limited to:

3.3.1 Structural and Mechanical Inspection.

- Check that all skirting is secure and that clearance gaps are correct.
- Check all deck plate bolts are fastened. Replace any broken or missing bolts.
- Inspect the deck structure for corrosion, rust, or signs of excessive wear.
- Inspect beams for excessive wear or corrosion and treat as necessary.
- Inspect manhole covers for breakage and ensure they are properly positioned when exiting the pit.
- Check for sufficient drainage in and around the pit area.
- Inspect foundation plates:
 - Ensure surrounding concrete is not loose or crumbling.
 - Confirm all foundation bolts are tight and secure.

3.3.2 Loadcells and Mounting Assembly Checks.

- Use a suitable jack to raise the deck safely.
- Remove ball from cup and check for deformation or cracking.
- Clean any built-up dirt as required.
- Apply new grease, check the retainer for damage or tears, and replace as required.
- Lower the deck into position and confirm correct operation of the loadcells.

3.3.3 Electrical and Safety Inspections.

- Inspect all conduit routes and ensure they are firmly secured.
- Check earthing points:
 - Where corrosion is visible, clean the area using sandpaper.
 - Reattach the earth wire securely in its original position.
- Inspect the junction box to ensure it is clean and free from moisture.

3.3.4 Functional and Safety Component Checks.

- Check and adjust stops; ensure all stop gaps are set uniformly to allow even bump load distribution.
- Test the sump pump to ensure full operational functionality.
- Check if the area beneath the weighbridge is clean. If not, advise the customer accordingly.
- Contractor to test functionality after completion of service and load testing.
- IT department will test system functionality and connect network before contractor leave the site.

3.3.5 Cabin.

- Measure AC supply to ensure that the earth connection is good.
- Check all the earth are common and secure.
- Test UPS by unplugging it and ensuring that it remains in operational state.
- Inspect all wiring is secure and tidy.
- Inspect the sealing arrangements and make sure that instrument is still sealed and verification interval still valid.
- Do end middle end test with truck where possible.

- Clean indicators.

3.3.6 Load test.

- Load test and calibrate weighbridges system. Calibrate system until full load of 60T.
- Different weights to be used to compare reading accuracy
- Testing shall be conducted by the qualified person in terms of the Metrology Act.
- Including eccentric test with Class 3 requirements.
- Supply load test certificate.

4 REURNABLE SCHEDULES.

- Service provider shall submit proof of registration to Legal Metrology Act or similar association.
- The contractor shall submit a list of references and a minimum of three projects previous executed. This shall comprise the following: name of the company, contact person, telephone, year which project was executed.
- Service provider shall submit the curriculum vitae (CV) of a qualified artisan or Technician will be conducting the service with relevant experience and must not be less than 2 years qualified.
- Service provider to write a letter to agree that they will comply to the scope of work.

5 CONTRACTOR REQUIREMENTS.

- TPT personal or supervisor and contactor must be present for final approval, inspection of load test certificate.
- Contractor to supply all tools, equipment, and weights.
- Hot work permit from TNPA if welding, grinding Etc is required.
- Calibration certificates for weights used.
- Service provider to provide service report when service is completed.
- Calibration certificate for weighbridge.

6 TPT TO PROVIDE.

- Gate access for the supplier.
- Temporal access to TPT.
- Access to ablution facilities.

7 SAFETY AND COMPLIANCE.

- The following documents must be submitted with the SHE file for approval by the TPT SHEQ department before any work commences:
 - Annexure A: Section 37 Mandatary Agreement
 - Annexure B Contractor Questionnaire
 - Annexure C Contractor Compliance File Assessment Checklist
- The contractor must ensure safe working practices during work on site.
- Transnet Port Terminals cannot be held responsible for any injury that occurs on site.
- The contractor shall comply with all applicable safety laws and regulations including all instructions received from TPT Management and TPT Supervisory Personnel.
- The contractor shall comply with the Terminal Safety, Health, Environment and Quality Standard Operating Procedures (SOP) as required by the TPT (SHEQ) manager.
- The contractor shall be required to undergo TPT's safety induction training programme prior to commencing work on TPT site.
- The contractor must ensure compliance to TPT's Security and emergency policies, procedures and regulations.
- Contractor and/or its employees shall be required to submit to random drug and alcohol testing.
- The contractor shall ensure that its employees present on the TPT site are furnished with safety clothing or personal protective equipment. (E.g., reflective jackets, safety boots, hard hats etc.)
- Service provider must ensure good housekeeping is performed before leaving the site.

8 SECURITY REQUIREMENTS.

The service provider will need to comply with the following security requirements once she file has been approved:

- Copy of Identification Document (SAPS Certified)
- Duration of permit required.
- Name list of persons and list of vehicles.
- Copy of Safety Induction Register.
- Copy of Medical fitness certificates.
- Driver's licences for all vehicles drivers (SAPS Certified)
- Valid roadworthy certificate for all vehicles / copy of latest license renewal.
- Hired vehicle – Proof of Lease agreement.