



TRANSNET PORT TERMINALS RICHARDS BAY (TPT RCB)
TENDER NUMBER: HT CABLE JOINT REPAIRS FOR PORT OF RICHARDS BAY

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SCOPE OF WORK



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1. Overview of the work

1.1 Executive Overview

Transnet Port Terminals is a division of Transnet SOC Limited whose core business is to provide cargo handling to a wide spectrum of customers, including shipping lines, freight forwarders and cargo owners.

Operations are divided into five major business segments, namely containers, bulk, break bulk, automotive and national port authority. All divisions operating under one umbrella, Richards Bay is one of Transnet Bulk and Break-Bulk handling terminal divided into two namely, DBT and MPT.

The terminal uses a network of high voltage cables to distribute power to various locations of the port and different equipment in the terminal. Due to the distances in between these areas and equipment these cables are often required to be joined to reach the desired area or equipment. Because of wear and tear and the tension that the cables are carrying they often fail on the jointed areas. As a result, there are several cables that have now been dropped out of operation due to failure of joints. This has now put the terminal on a high risk on the availability and reliability of the power distribution system. These works seeks to restore those cables back into operations to ensure availability and reliability of the terminal power distribution system

1.2 Employer's objective

TPT's objective is for a successful bidder to perform HV cable joints repairs as listed on the below scope, to ensure continuous operation and safety requirements to plant equipment and employees is met.

1.3 Main Work Information

The purpose of this scope of work is to provide suppliers with goods supply specifications information for HV cable joint repairs as a once off to TPT, Richards Bay Terminals.

2. Detailed Scope of Work

2.1 HV Cable Joint Repairs

2.1.1

EQUIPMENT	NUMBER OF JOINTS REPAIRS
CAILLARD LOADER	3
LIEBHERR 05	3
LIEBHERR 08	2
LIEBHERR 09	3
CAILLARD 08	1

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ELMEC	1
MANTAKRAFT	2
IMG	2
SANDVIK	2
K71 STACKER	1
ALESA 02	2

2.1.2 The service provider shall provide the necessary resources, skills, tools and equipment to carry out the works

2.1.3 The service provider shall do the following tests on the cable before and after the processes of cable jointing:

- I. Conductor resistance test
- II. Insulation resistance test
- III. Cable fault location where applicable
- IV. Pressure test

2.1.4 Cable type include HV flexible portolan cable

2.1.5 Service provider must have their own tools and materials to perform the work, i.e. jackhammer or concrete cutting tools.

2.1.6 Ensure the enclosure box notices, warning, labels, and color-coded phases are clearly visible.

2.1.7 All electrical isolation will be managed by TPT representatives.

2.1.8 Any form of rigging will be done by the service provider.

2.1.9 Report any physical damage which may result on the duration of the project

2.1.10 Service provider to tender must meet the threshold of the evaluation criteria.

2.2 Project Management:

2.2.1 All tools and materials used shall be SABS approved.

2.2.2 Risk assessment shall be conducted at the beginning of every task during assessments and testing.

2.2.3 All painting and corrosion protection to be according to Transnet corrosion specification (Ref. EEAM-Q-008 Ver 17)

2.2.4 The contractor is to ensure no entry into the substation by other parties during the inspection and testing of lightning protection devices.

2.2.5 All work shall be done in accordance with Occupational Health and Safety Act and Regulations (No. 85 of 1983)

2.5.6 Always notify the HT Supervisor before commencing any hot work and acquire a permit to work.

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2.2.7 A suitably qualified technical person will be required to supervise all onsite work for safety.

3.2.8 Permits to work and risk assessments must be signed with the Supervisor or technician concerned.

3.2.9 Daily Report: A daily report must be submitted to the Technical Supervisor for all work done for the day.

3.2.10 Weekly Report: A weekly report must be submitted to the Project Manager; this must contain detailed information of the progress.

3. Contractors' Responsibilities.

3.1 The contractor shall

3.1.1 Provide all the necessary skills, resources, tools, equipment, and experts; to conduct the works as a minimum each team to conduct the repairs or maintenance is to have a trade tested Electrician.

3.1.2 Review, familiarize and understand the proposed site including all constraints and environmental factors.

3.1.4 Review, familiarize and understand the operational requirements of the facilities in the Port of Richards Bay.

3.1.5 Any other reasonable works required to successfully deliver the services to the Employer on time, on budget, at the accepted quality.

3.1.6 Provide all necessary SHE compliance documentation as per Transnet Port Terminals SHE specifications, including the submission and approval of a Safety File.

3.1.7 Hand over all documentation including condition reports after the repairs.

4. Drawings and other documentation

4.1 The Employer will issue any **available** drawings and spec sheets on request.

5. Governing Codes, Standards and Specifications

5.1 The standards that are referred to on this document shall be used as a reference, the latest standards apply if they are available.

5.2 List of Specifications and Standards

Guiding Code	Definition
EEAM-Q-012	General Electric Equipment
EEAM-Q-021	Electric Equipment
EEAM-Q-020	Tests on Electrical Equipment
EEAM-Q-009	Quality management supplier/construction

SABS ISO 9001: 2015

Quality Management Standard

6. Tools and Machinery

6.1 The service provider is to provide all labour, materials, tools, machinery, equipment, appliances, and services necessary to execute carry the works in the scope.

Where required, scaffolding and rigging will be supplied by TPT.

7. Health and safety information

All health and safety Acts, rules and regulations must be practiced with accordance to the latest revisions and editions for complete compliance.

8.1 Safety Requirements

8.1.1 Contractor to comply with Health and Safety Acts and its regulations.

8.1.2 Refer to Occupational Health & Safety Act 85 of 1993 ("OHSA") for guidance.

8.1.3 Where applicable, service provider must have a safety file submitted to the safety department for assessment.

8.1.4 All employees must be medically fit with report confirming that they may commence work in Transnet premises.

8.1.5 Supplier to adhere to all environmental rules and regulations as explained in detail under management and start up topic.

8.1.6 All personnel always involved to have all relevant PPE requirement where applicable.

8.2 Compliance

8.2.1 Bidders shall comply with all legislation, but not limited to the following:

8.2.2 Occupational Health & Safety Act 85 of 1993 ("OHSA").

8.2.3 International Health Regulation Act 28 of 1974.

8.2.4 Hazardous Substances Act 15 of 1973.

8.2.5 The Compensation for Occupational Injuries and Disease Act, 1993 (Act No.130 of 1993) ("COIDA"). Contractor must ensure that their COIDA registration is updated with accordance to the services rendered.

8.2.6 All material aspects of all applicable legislation, provincial ordinances, and local authority by-laws, including all relevant regulations promulgated in terms thereof, which affects the maritime business.

8.2.7 The basic conditions of Employment Act No.75 of 1997.

8.2.8 Criminal Procedure Act No.51 of 1977

8.2.9 National Ports Act No.12 of 2005 and enabling legislation thereto, including the Port Rules.

8.2.10 Control of Access to Public Premises and Vehicle Act, No 53 of 1985.

- 8.2.11 Legal Succession to the South African Transport Services Act No.9 of 1989 (but excluding any tariff provided for in such regulations).
- 8.2.12 Any other Transportation laws or directives that govern TPT's Transportation and Handling Services.
- 8.2.13 Merchant Shipping Act no.57 of 1951, the Maritime Security Regulations 2004 read in conjunction with the International Ship and Port Facility Security Code and Maritime Occupational Safety Regulations (1994), as amended.
- 8.2.14 Codes of Good practice embodied in the Broad Based Black Economic Empowerment Act No.53 of 2003:
- 8.2.14 Customs and Excise Act No.91 of 1964:
- 8.2.16 National Road Traffic Act and Regulations Act 93 of 1996 (as amended from time to time).
- 8.2.17 The National Railway Safety Regulator Act No.16 of 2002,
- 8.2.18 The Labour Relations Act No.66 of 1995 and the Regulations thereto.

9. Parties responsibilities

9.1 The service provider's responsibilities

- 9.1.1 Affected Property entry and security control, permits, and Affected Property regulations.
- 9.1.2 The Contractor complies with the Employer's Affected Property entry and security control, permits and Affected Property regulations.
- 9.1.3 Restrictions to access on Affected Property, roads, walkways, and barricades:
- 9.1.4 The Contractor is specifically excluded from entering the Employer's Operational Areas which are adjacent to the Affected Property. The Contractor plans and organises his work in such a manner to cause the least possible disruption to the Employer's operations.
- 9.1.5 The Contractor ensures safe passage of his team, to traffic and around the Affected Property working areas at all times which includes providing flaggers.
- 9.1.6 The Contractor ensures that any of his staff, labour and Equipment moving outside of his allocated Affected Property and Service Areas does not obstruct the operations of the Terminal. To this end, access routes are allocated and coordinated by the Service Manager.
- 9.1.7 The Contractor ensures that all his Service staff, labour, and Equipment remains within his allocated and fenced off working Area.
- 9.1.8 All Contractor's staff and labour working within port complies with Transnet Port Terminals operational safety requirements and are equipped with all necessary personnel protective equipment (PPE).
- 9.1.9 People restrictions on Affected Property; hours of work, conduct and records:
- 9.1.10 The Contractor keeps daily records of his people engaged on the Affected Property with access to such daily records available for inspection by the Service Manager at all reasonable times.

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10. Procurement

10.1 The service provider's invoices

10.1.1 The invoice states the following:

10.1.2 Invoice addressed to Transnet SOC Limited.

10.1.3 Transnet Limited's VAT No: 4720103177.

10.1.4 Invoice number:

10.1.5 The service provider's VAT Number; and 10.1.6

The invoice contains the supporting detail:

10.1.7 A bill format as per the tender document indicating previously paid, paid to date and amount due for the month.

10.1.8 The invoice is presented by emailing to AccountsPayable.TPTRCB@transnet.net

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