

**TRANSNET PORT TERMINALS**

TENDER NUMBER:

DESCRIPTION OF THE SERVICE: CAILLARD 08 LONG TRAVEL PANEL REPLACEMENT AND INSTALLATION OF CABLE TRAYS AS A ONCE OF WORK FOR TRANSNET SOC LTD (REG. NO 1990/000900/30) OPERATING AS TRANSNET PORT TERMINALS RICHARDS BAY (HEREINAFTER REFERRED TO AS "TPT RCB")

PART C3: SCOPE OF WORK – CAILLARD 08 LONG TRAVEL PANEL REPLACEMENT AND INSTALLATION OF CABLE TRAYS.

Document reference	Title	No of pages
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	Scope of work (Services)	13
	Total number of pages	14

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INTERPRETATION AND TERMINOLOGY

Abbreviation	Meaning given to the abbreviation
AIA	Authorised Inspection Authority
BBBEE	Broad Based Black Economic Empowerment
QA	Quality Assurance
SES	Standard Environmental Specification
SHE	Safety, Health, and Environment
SHEC	Safety, Health, and Environment Co-ordinator
SIP	Site Induction Programme
SMP	Safety Management Plan
SSRC	Site Safety Review Committee
TPT	Transnet Port Terminal
KZN	Kwa-Zulu Natal
ECSA	Engineering Council of South Africa
RCB	Richards Bay
PPE	Personal Protective Equipment
OEM	Original Equipment Manufacturer
COF	Certificates of Fitness
TNPA	Transnet National Port Authority
TRCB	Transnet Richards Bay (TPT & TNPA)
Sqm	Square meter
DBT	Dry Bulk Terminal
MPT	Multi-Purpose Terminal
SOC	State Owned Company
EO	Environmental Officer
HAZOP	Hazard and Operability Study
HSSP	Health and Safety Surveillance Plan
HVAC	Heating Ventilation and Air Conditioning
IR	Industrial Relations
IRCC	Industrial Relations Co-ordinating Committee
JSA	Job Safety Analysis

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CIRP	Service provider's Industrial Relations Practitioner
Native	Original electronic file format of documentation
NHBRC	National Home Builder Registration Council
PES	Project Environmental Specifications

INTERPRETATION AND TERMINOLOGY CONTI...

Abbreviation	Meaning given to the abbreviation
PIRM	Project Industrial Relations Manager
PIRPMP	Project Industrial Relations Policy and Management Plan
PLA	Project Labour Agreements
PSIRM	Project Site Industrial Relations Manager
PSPM	Project Safety Program Manager
PSSM	Project Site Safety Manager
PrEng	Professional Engineer
ProgEM	Programme Environmental Manager
ProjEM	Project Environmental Manager
QA	Quality Assurance
reefer	Refrigerated unit
SANS	South African National Standards
SES	Standard Environmental Specification
SHE	Safety, Health, and Environment
SHEC	Safety, Health, and Environment Co-ordinator
SIP	Site Induction Programme
SMP	Safety Management Plan
SSRC	Site Safety Review Committee
CIDB	Construction Industry Development Board
MDG	Mechanical Drive Gearboxes
IMTD	Industrial mechanical transmission drives

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SECTION A**1 DESCRIPTION OF THE SERVICE****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 (NPA). All divisions operating under one umbrella, Richards Bay is one of Transnet Bulk and Break-Bulk handling terminal divided into two namely, Dry Bulk Terminal (DBT) and Multi-Purpose Terminal (MPT).

The scope entails the supply, installation and commissioning of new cable management system and the replacement of the existing electrical panel box. The works are intended to improve electrical infrastructure reliability, safety, and compliance with current SANS regulations.

1.2 Employers Objective

The Employer's current objective is to appoint the service provider to carry out the task of stripping, replacing the existing long travel motors panel and cable trays ensuring compliance with national standards and safety regulations as a once off service for Transnet Port Terminals, Richards Bay.

1.3 Main Works Information

The service provider is expected to perform the services according to the following preambles:

- 1.3.1 Safely strip out the existing electrical panel, cables and cable trays.
- 1.3.2 Supply and install new stainless steel long travel motors panel box and stainless-steel mounting brackets.
- 1.3.3 Record all current labels and safely disconnect all obsolete wiring and components.
- 1.3.4 Supply and installation of cable trays with bracket mounting.
- 1.3.5 Replacing electrical cables from the panel to the long travel electrical motor and brakes.



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2 Detailed Scope of Work

The service provider is required to perform the work in accordance with the following detailed scope of work:

2.1 Installations and configurations of electrical components

- 2.1.1 Record all current labels and safely disconnect all obsolete wiring and components
- 2.1.2 Safely strip out the existing panel. Fabricated and paint with the cranes original colour where the panel brackets must be mounted.
- 2.1.3 Supply and install stainless panel box (100 x 80 x 30) mm with IP66 protection rating, earth terminals attached around the panel door. The panel must be accessible via two panel key slots. The panel must have a DIN-rail mounting and cable trucking for neat connections.
- 2.1.4 Supply and install stainless steel mounting brackets with accessories. Material used must be protected at IP 166 rate. (X2)
- 2.1.5 Supply and mount in the panel light: LED 025 with on/Off switch and screw fixing. Install a mounting bracket for the light. (X1)
- 2.1.6 Supply and install SAREL type 17561 A overture temperature sensor module 250 VAC, temperature rage 0-60°. (X1)
- 2.1.7 Supply and install fan: SUNON DP200A 220V-240v, 50/60Hz, 0.12A impedance protected. (X1)
- 2.1.8 Supply and install auxiliary contact: CHINT XF9 with a TEST IEC 60947-5-1. (X6)
- 2.1.9 Supply and install 2-module wide miniature circuit breakers: CHINT NB1-63, 32A with an IEC/EN 6094702. (X5)
- 2.1.10 Supply and install -module wide miniature circuit breakers: CHINT NB1-63, 16A with an IEC/EN 6094702. (X1)
- 2.1.11 Supply and install Legrand 2 pole + earth 5A socket outlet. EA. 3414971851467
- 2.1.12 Supply and install Weidmuller RSM 4RS 230VAC LP, 4-channel relay module with order number of 1114861001. (X2)
- 2.1.13 Supply and install terminal blocks with an IEC 60947-7-1. (X20)
- 2.1.14 Supply and install polybloc 35_3.10, 8 slots with an IEC 664 600. (X6)
- 2.1.15 Supply and install Entrelec connector blocks, with an IEC 347-7-1. (X35)
- 2.1.16 Supply and install Weidmueller terminal blocks with an IEC 60947-7-1. (X30)
- 2.1.17 Supply and install SAREL resistance heater 17502 ac/dc 110-250V/20W. (X1)
- 2.1.18 Supply and install Pireflex RN-F-255 3G2.5 3 cores 2.5mm² cable (X 40 meters)
- 2.1.19 Supply and install Pireflex RN- F 4G 4mm² 4 cores cable. (X 40 meters)



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- 2.1.20 Supply and install slotted Trunking for inside the cable and label all wires accordingly.
- 2.1.21 Supply cable glands: (M20 X2), (M25 or M25 X17), and (M32 or M40 X1).
- 2.1.22 Supply and install hot galvanized steel ladder cable tray (AR-A50-M) 3m in length x 500 mm. Cable tray must cover 20 meters.
- 2.1.23 Supply and install horizontal 90° bend r-125,500mm, AR-150-MR125. (X 3)
- 2.1.24 Supply and install hot galvanized steel ladder cable 3m length x 40mm (AR-A05-14A). Cable tray must cover 140 meters.
- 2.1.25 Supply and install hot galvanized steel ladder cable 3m length x 50mm (AR-A10-14A). Cable tray must cover 4 meters.
- 2.1.26 All cable trays be mounted on stainless steel brackets.
- 2.1.27 Ensure that all wires are labelled correctly and the panel is also labeled.
- 2.1.28 All cable trays must be earthed together.

2.2 Testing of all installed electrical components

- 2.2.1 Check mechanical completeness through visual inspection: panel secured, glands tight and cable trays supported per SAN 1461.
- 2.2.2 Verify IP rating if its maintained, there are no damage to the equipment and correct labelling.
- 2.2.3 Continuity of conductors: earth continuity test
- 2.2.4 Insulation resistance test and functioning testing.
- 2.2.5 Document, provide test results and provide certification of compliance.

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

The execution of the work must not interfere with other terminal's operations.

3 Equipment Specification

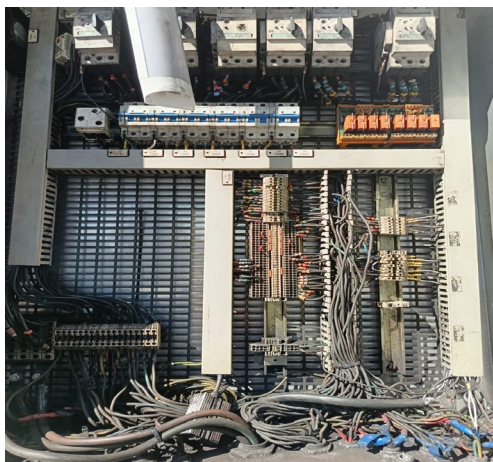
Caillard ship-unloader is situated at Import section at 702 berth. The service provider must only use the specified equipment mentioned on 2.1.

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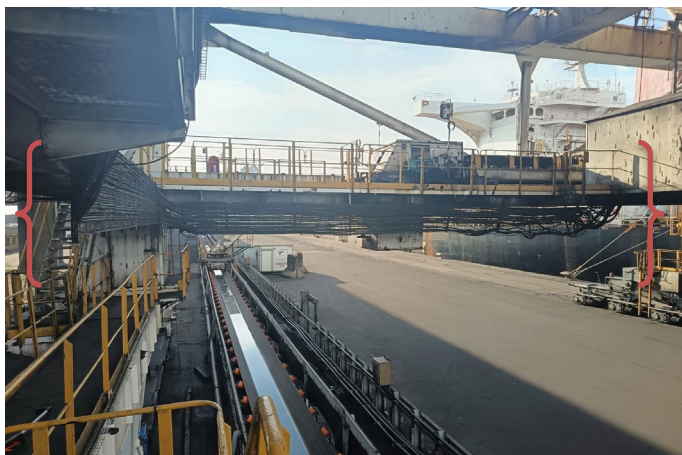
Picture 01: Long travel motor panel at Leg 03



Picture 02: Leg 03- panel to be replaced



Picture 03: Cable trays to be replaced under shuttle belt.



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3.1 Methodology

The service provider must provide a methodology statement on how the services will be conducted.

4 Guarantees and Warrantees**4.1 Guarantees**

The service provider must provide a comprehensive guaranty for all installed electrical components, covering defects in materials for a minimum period of 12 months from the date of work completion.

4.2 Warrantees

The service provider must provide a comprehensive warranty for workmanship for a minimum period of 12 months from the date of work completion.

5 Delivery Lead Time

The service provider is expected to complete all services within a maximum of 9 days from the initiation of the project, aligning with the client's preference for prompt completion. The Service provider should make all necessary arrangements to adhere to this schedule to minimize downtime and ensure operational efficiency.

However, should there be any unforeseen delays or challenges that extend the timeline beyond the stipulated 9 days, the Service provider is required to promptly inform the client (TPT). This communication should include a detailed explanation of the cause of the delay, the actions being taken to address the issue, and a revised completion date. The Service provider should also provide regular updates on the progress to ensure the client is fully informed at all stages of the repair process. It is imperative that the Service provider makes every effort to expedite the repairs while maintaining the highest standards of quality and safety. The extension will be approved or rejected by TPT.

6 GOVERNING CODES, STANDARDS AND SPECIFICATIONS

The service provider's works must be in accordance with the requirements of the latest edition of the national standards (SANS). In addition to this the workshop needs to comply with the OHS Act 85 of 1993 (Occupational Health and Safety Act and Regulations).

The tests prescribed in the relevant standard specifications shall be carried out at the service provider's facilities before delivery. The test results shall be submitted to the Section's Engineering or Technical/ Manager with each supplied or repaired asset.

Work and Supplied Materials made and tested to alternative standard specifications will be considered at the discretion of the Section's Engineering Manager; provided that such specifications are not less stringent than those laid down. Regardless of which specifications are worked to when conducting the work, the work shall be capable of satisfactorily passing all tests laid down in the standard specifications called for.

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Table 1: Standards Specifications

TPT Specifications	
Title	Document number
Wiring safety	SANS 10142-1
Corrosion protection	SANS 10162 and 10064
Enclosure material	SANS 60529 (IP rating)
Wiring and cabling	SANS 10142-1:2021
Cable standards	SANS 1507
Labelling	SANS 1186
Safety Compliance	OHSA Act 85 of 1993
Quality assurance	ISO 9001

7 QUALITY MANAGEMENT**7.1 Quality Control Background**

Transnet Port Terminals Richards Bay is a state enterprise whose core quality management system is based on ISO 9001 or later standards. Electrical servicing is a highly quality control-sensitive process. Achieving precision and consistent, reliable quality requires significant investment in quality management systems and practices. Managing and controlling the quality of electrical services necessitates skilled personnel and processes specifically designed to meet stringent standards. Equipment reliability is also dependent on the level of quality invested in the system, its implementation, and efficiency. Transnet specifications strictly recognize ISO 9001 as the benchmark for quality systems, quality control, and assurance, providing guidance on basic and minimum requirements. For this project, it is mandatory to be ISO 9001 accredited and to actively comply with its requirements, in line with Transnet specifications.

SECTION B**8 Service provider's Responsibilities.****8.1 The Service provider Shall:**

- 8.1.1 The Service provider must attend a site briefing to be considered for the project.
- 8.1.2 Provide all the necessary skills, resources, equipment, experts, any other item of expense that is essential for the completion of services as per above scope of work.
- 8.1.3 Review, familiarize and understand the proposed site including all constraints and environmental factors.



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- 8.1.4 Review, familiarize and understand the operational requirements of the facilities in the Port of Richards Bay.
- 8.1.5 Any other reasonable works required to successfully deliver the services to the Employer on time, on budget, at the accepted quality.
- 8.1.6 Provide all necessary SHE compliance documentation as per TPT SHE specifications, including the submission and approval of a Safety File post award.
- 8.1.7 Hand over all documentation after service.

8.2 Restrictions to Access on Affected Property, Roads, Walkways and Barricades

Affected Property entry and security control, permits, and Affected Property regulations: The *Service provider* complies with the Employer's Affected Property entry and security control, permits, and Affected Property regulations.

- 8.2.1 The service provider is specifically excluded from entering the Employer's Operational Areas which are adjacent to the Affected Property. The Service provider plans and organises his work in such a manner to cause the least possible disruption to the Employer's operations.
- 8.2.2 The service provider ensures safe passage of his team, to traffic and around the Affected Property always working areas which includes providing flagmen.
- 8.2.3 The service provider 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.
- 8.2.4 The service provider ensures that all his Service staff, labour, and Equipment remain within his allocated and fenced off working Area.
- 8.2.5 All service provider'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).

People restrictions on Affected Property; hours of work, conduct, and records: The *Service provider* 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.

9 TPT's Responsibilities

TPT will provide the following resources "TPT representative, rigging and scaffoldings services" for the work as per this scope of work. TPT will provide these resources only for the work that will be done inside TPT premises.

SECTION C

10 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.



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10.1 Safety Requirements

- 10.1.1 Service provider to comply with Health and Safety Acts and its regulations.
- 10.1.2 Refer to Occupational Health & Safety Act 85 of 1993 ("OHSA") for guidance.
- 10.1.3 Where applicable, service provider must have a safety file submitted to the safety department for assessment.
- 10.1.4 All employees must be medically fit with report confirming that they may commence work in Transnet premises.
- 10.1.5 Service provider to adhere to all environmental rules and regulations as explained in detail under management and start up topic.
- 10.1.6 All personnel always involved to have all relevant PPE requirement where applicable. (Including but not limited to safety harnesses)

10.2 Compliance

- 10.2.1 Bidders shall comply with all legislation, but not limited to the following:
- 10.2.2 Occupational Health & Safety Act 85 of 1993 ("OHSA").
- 10.2.3 International Health Regulation Act 28 of 1974.
- 10.2.4 Hazardous Substances Act 15 of 1973.
- 10.2.5 The Compensation for Occupational Injuries and Disease Act, 1993 (Act No.130 of 1993) ("COIDA"). Service provider must ensure that their COIDA registration is updated with accordance to the services rendered.
- 10.2.6 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.
- 10.2.7 The basic conditions of Employment Act No.75 of 1997.
- 10.2.8 Criminal Procedure Act No.51 of 1977
- 10.2.9 National Ports Act No.12 of 2005 and enabling legislation thereto, including the Port Rules.
- 10.2.10 Control of Access to Public Premises and Vehicle Act, No 53 of 1985.
- 10.2.11 Legal Succession to the South African Transport Services Act No.9 of 1989 (but excluding any tariff provided for in such regulations).
- 10.2.12 Any other Transportation laws or directives that govern TPT's Transportation and Handling Services.
- 10.2.13 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.
- 10.2.14 Codes of Good practice embodied in the Broad Based Black Economic Empowerment Act No.53 of 2003:
- 10.2.15 Customs and Excise Act No.91 of 1964:
- 10.2.16 National Road Traffic Act and Regulations Act 93 of 1996 (as amended from time to time).



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10.2.17 The National Railway Safety Regulator Act No.16 of 2002,

10.2.18 The Labour Relations Act No.66 of 1995 and the Regulations thereto.

11 Site Access and Information)

Access to affected property shall be arranged by the project owner as indicated at the point of intent. The site is at the Bulk Terminal in the Port of Richards Bay. Access to the site will be from the existing public and maintenance road networks whilst access to the Port of Richards Bay will be through the East or West Access Gates. Access to the Port of Richards Bay will be subject to the TPT security requirements and regulations.

11.1 Site Information

Site Conditions: The groundwater table has been recorded at between 0.8 m and 1.5 m below ground level across the site during winter.

Altitude – sea level

Ambient temperature – 5 to 45 °C

Relative humidity – frequently 100%

Air Pollution – heavily saline and dust laden; industrial and locomotive fumes; ignitable dusts

General wind velocities – up to 60km/ h

Storm wind velocities – up to 180 km /

Climate data for Richards Bay based on monthly averages for the 30-year period: 1961- 1990 (SAW, 2005) 2

12 Procurement

12.1 The Service Provider's Invoices

12.1.1 The invoice states the following:

- a) Invoice addressed to Transnet SOC Limited.
- b) Transnet Limited's VAT No: 4720103177
- c) Invoice number:
- d) The *Service Provider's* VAT Number; and

12.1.2 The invoice contains the supporting detail:

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

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