Transnet Port Terminals Stalwart Simelane Street, (Previously Stanger Street) Durban, 4065



Project Name:

Cable Tray Repairs on

Liebherr Ship-To-Shore Cranes

Compiled by:	Suvanya Pillay	 Date
Requested by:	Engineer in Training Sixahanga Mdluli	26.09.2024
	Siyabonga Mdluli Technical Supervisor	Date
Approved by:	hand the same	30/09/2024
	Sibonelo Buthelezi	Date
Approved by:	Technical Manager	27/09/2024
	Nkululeko Ndamane	Date
	Engineering Manager	

Transnet Port Terminals Stalwart Simelane Street, (Previously Stanger Street) Durban, 4065



1. OVERVIEW

The contractor is tasked with structural maintenance, repair, corrosion removal, and painting of the identified cable trays on the Ship-to-Shore (STS) Cranes, manufactured by Liebherr, located at Transnet Port Terminals, Pier 1, Port of Durban. The focus will be on all cable trays situated throughout the crane, where significant corrosion has been observed, posing a safety hazard. The purpose of this project is to ensure the structural integrity and safety of these cable trays by replacing the corroded sections, protecting the cables, and making the area secure.

The scope of work specifically focuses on STS Crane number 1,2,3,4,5,7 (QC001, QC002, QC003, QC004, QC005, QC007).

2. EMPLOYER'S OBJECTIVE

The Employer's objective is to ensure the structural integrity of the STS crane remains intact. The contractor's responsibilities are detailed in the subsequent sections and must be planned, integrated, and executed comprehensively, employing a quality system throughout the processes.

3. SCOPE OF WORK

- 1.1 This document outlines the requirements for repairing the cable trays situated on the Liebherr shipto-shore crane number 1,2,3,4,5,7.
- 1.2 The scope of work shall include the following but is not limited to:
 - 1.2.1 Execution of the works as detailed under section 4,5,6,7 of this document.
 - 1.2.2 All other details required can be discussed in site meeting.



4. DETAILED REQUIREMENTS

4.1. <u>Inspection and assessment:</u>

4.1.1. Conduct a thorough inspection of the existing cable trays to assess the level of corrosion and identify all areas requiring repair and replacement.

4.2. Replacement and repair:

- 4.2.1. Safely remove all corroded sections of the cable trays without causing damage to the existing electrical cables.
- 4.2.2. During removal, ensure that all exposed cables are properly supported and protected to prevent any damage or disruption to crane operations
- 4.2.3. Manufacture and install new cable trays in place of the removed corroded sections. The new trays must be made of durable, corrosion-resistant materials suitable for the port's coastal environment.
- 4.2.4. Ensure the new cable trays are securely fastened and installed to provide optimal protection and support for the cables.
- 4.2.5. Ensure all newly installed items match the original dimensions, material, and design specifications.
- 4.2.6. Ensure that all cables housed within the trays are securely fastened using appropriate clips, ties, or other securing mechanisms to prevent cable movement and reduce wear and tear. The use of stainless-steel cable ties is required.
- 4.2.7. Verify that all cables are properly covered and protected, especially in areas previously exposed due to corrosion.
- 4.2.8. Apply a high-quality corrosion protection coating to all new and repaired cable trays, as well as any surrounding metalwork that may be vulnerable to corrosion.
- 4.2.9. Use suitable anti-corrosive treatments and paints that adhere to international and marine standards.
- 4.2.10. Ensure all installations are secure and meet relevant safety standards.
- 4.2.11. All welding must be performed by codified welders.
- 4.2.12. Any cracks/defective welds found, are to be treated, applying anti corrosion primer, intermediate and final coat (As per Transnet Corrosion Protection EEAM-Q-008)



5. QUALITY CONTROL

NB: Surface preparation, painting and structural steelwork shall be done in accordance with TPT specification:

Corrosion Protection	EEAM-Q-008
Structural Steelwork	EEAM-Q-006
Quality Control	EEAM-Q-009

6. OTHER REQUIREMENTS

- 6.1. A compulsory site meeting will be held at the Pier 1 Technical Workshop. The date for this meeting will be confirmed.
 - 6.1.1. The contractor must provide sufficient information and references with their response to enable Transnet Port Terminals to assess their level of experience, as outlined in Annexure A.
 - 6.1.2. Reference lists must include addresses and contact persons who can be visited for equipment inspection during the adjudication period.
 - 6.1.3. Transnet Port Terminals will not consider any contractor's offer that, in their sole opinion, lacks adequate experience and/or equipment to ensure the quality of work.
- 6.2. A warranty period of at least 24 months is required for the workmanship.
- 6.3. State lead time from date of purchase order to completion of job.
- 6.4. All other pertinent certificates and documentation must be provided.
- 6.5. The bidder is required to provide a method statement, illustrating the understanding of how they will conduct the work from start to completion. Minimum requirements:
 - Welding and repair methodology
 - Painting methodology
 - Tools required
 - Corrosion protection
- 6.6. Compliance to the below technical evaluation criteria:

Transnet Port Terminals Stalwart Simelane Street, (Previously Stanger Street) Durban, 4065



7. TECHNICAL EVALUATION SCORECARD

Please refer to the evaluation criteria. It is the responsibility of the bidder to go through the evaluation criteria and submit all relevant documentation. Please note that if a bidder does not meet the minimum eligibility criteria, the bid will be disqualified.

Technical Evaluation Scorecard				
Evaluation Criteria	Description	Criteria	Weighting	
	Compliance to requested Scope of Works - Full written submission = 20 points - Partial compliance = 10	Compliance to Works Information	20	
Track Record And Countries of South State of South	Submission of comprehensive execution and quality control plan relevant to the type of work	Submission of execution and quality control plan	10	
	Warranty stipulated for 18-24 months and terms and conditions submitted = 10 points Warranty stipulated for 12-18 months and terms and conditions submitted = 5 points Warranty stipulated for 12 months or less = 0 points	Duration in months	10	
	Submission of staff qualifications relevant to the works (coded welder, Paint Technician)	Submission of coded welder, paint technician certification	10	
	ISO Certificate 9001	Accreditation certificate Submitted = 10 Points No Certificate Submitted = 0 Points	10	
	Sub-total		60	
	Three (3) Port Equipment (STS Crane) Corrosion Protection/Refurb PO or more scores 20 Points Two (2) Port Equipment (STS Crane) Corrosion Protection/Refurb PO scores 15 Points One (1) Port Equipment (STS Crane) Corrosion Protection/Refurb PO scores 10 Points No Port Equipment (STS Crane) Corrosion Protection/Refurb PO repaired scores 0 Points	List the number of projects completed with traceable references	20	
	Sub-total		30	
Lead time	Lead time from award of PO to work completion - 3 days = 20 points - 3-4 days = 15 points - 4-5 days = 10 points - >5 days = 0 points	State the Lead time in weeks to complete the task	20	
	Sub total		20	
	TOTAL RATING		100	
Technical Qualification Threshold = 80%				

Transnet Port Terminals Stalwart Simelane Street, (Previously Stanger Street) Durban, 4065



8. ANNEXURE A: TRACK RECORD (COMPULSORY RETURNABLE)

Contractors are required to demonstrate sufficient recent experience in the execution of similar works on Ship to Shore cranes; and to this end shall supply a sufficient detailed comprehensive reference list with details of similar works executed in the past two (2) years.

#	Name of Previous Customer	Contact details	Details of work executed	Year
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
Signed		Date		
Name		Position		
Contrac	ctor/Supplier			

Transnet Port Terminals Stalwart Simelane Street, (Previously Stanger Street) Durban, 4065



9. ANNEXURE B: ACTIVITY SCHEDULE (COMPULSORY RETURNABLE)The contractor is required to complete the activity schedule below with the description of the activity or work to be done as per scope of work and the costs of each activity or spares required.

No	Description of Activity /Task	Price
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		
16		
17		
18		
	TOTAL	
Signed	Date	
Name	Position	
Contrac	tor/Supplier	