
CORROSION TREATMENT ON QUAY ACCESS LADDERS AT TNPA PORT OF NGQURA FOR ONCE-OFF PERIOD

For: **TNPA Port of Ngqura**
Prepared by: **TNPA Port Engineering, Port of Ngqura**

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DOCUMENT NAME.	REVISION	PAGE
SPECIFICATION FOR CORRIOSION TREATMENT ON QUAY ACCESS LADDERS AT PORT OF NGQURA FOR A ONCE-OFF PERIOD	01	1 OF 11

1. INVITATION TO SUBMIT QUOTATION

Bidders are hereby invited to tender for the corrosion treatment of quay access ladders, in the Port of Ngqura, for once-off period.

Bidders shall have a minimum CIDB grading of **2 CE or Higher** to be eligible for this tender.

2. SCOPE OF WORKS

- 2.1. This specification will outline the necessary steps and material required for effectively treating corrosion on quay access ladders. All work specified in this document will include the supply of all material, labour, and other required items to execute the work successfully.
- 2.2. This specification applies to the treatment of corrosion on quay access ladders constructed from steel materials. It covers both preventive measures and remedial actions to address existing corrosion.

i) Removal and Reinstallation of Ladders:

- (a) The contractor is required to remove the access ladders from the quay wall, perform the necessary work, and then reinstall the ladders in their original positions.
- (b) Anchor installation should be carried out under the supervision of the person responsible for technical matters of the site.
- (c) Use anchors which are supplied by the manufacturer or as per the approved drawings.
- (d) The edge distance and spacing should not be less than the specified values as per the drawings.
- (e) The anchor hole should be hammer-drilled using a diamond core drill bit, in the same position as before.
- (f) If the drill hole is aborted, the hole should be filled with mortar.
- (g) Fully threaded anchors must be used with resin/epoxy bond materials to achieve a bond between the anchors and the existing concrete.

ii) Surface Preparation:

- (a) A contractor must use a wire brush or scrap loose rust, dirt, and debris from the affected areas. Ensure the surface is clean and dry before proceeding.

iii) Blast cleaning and abrasives.

- (a) Blast cleans all steel to a near-white condition with a 2.0 mil minimum profile.
- (b) Utilize clean, dry compressed air for abrasive blast cleaning.
- (c) Use abrasives that are clean and dry. If possible, use recyclable abrasives to create the least amount of waste that is practicable.

iv) Treatment:

- (a) A contractor must apply a **rust converter** or **primer** to the cleaned surface. This product will chemically convert rust into a stable compound and create a suitable surface for painting. Allow the primer to dry completely before applying rust-inhibiting paint.
- (b) The contractor is required to apply a two-coat system using contrasting colors to identify any missed spots. The performance of the paint system must be guaranteed upon project completion. The final coat must be yellow.

DOCUMENT NAME.	REVISION	PAGE
SPECIFICATION FOR CORROSION TREATMENT ON QUAY ACCESS LADDERS AT PORT OF NGQURA FOR A ONCE-OFF PERIOD	01	2 OF 11

Paint System	Coats	Film Thickness (microns)
OptiRustBusta® OR Noxyde #	One coat with a stripe coat * in between coats	175 microns minimum dry
OptiMetalCoat or Peganox.	Top coat yellow in color	175

- (c) A contractor must apply the paint evenly as according to the above table using a paintbrush or spray equipment, ensuring full coverage of the treated areas. Allow the paint to dry before inspecting any missed spots or uneven coverage.
- v) **Figure 1** below indicates one of the corroded access quay ladders in the Port, other corroded Access quay ladders are generally of the similar quality.



Figure 1
(corroded Access quay ladders)

DOCUMENT NAME.	REVISION	PAGE
SPECIFICATION FOR CORROSION TREATMENT ON QUAY ACCESS LADDERS AT PORT OF NGQURA FOR A ONCE-OFF PERIOD	01	3 OF 11

3. GENERAL

3.1. DURATION OF CONTRACT

- 3.1.1. The duration of the contract is 8 weeks or until the Purchase Order is depleted.
- 3.1.2. The contract duration encompasses the necessary time for procuring materials, labour, and any other associated lead team items.
- 3.1.3. In the event of anticipated delays that could extend the completion of the service beyond the Purchase Order expiry date, the Contractor must immediately communicate this to the Project Manager to allow the TNPA Project Manager to seek the necessary approvals for amending the Purchase Order Expiry date, if merited to do so.
- 3.1.4. Work related to the service being provided may only continue beyond the original Purchase Order expiry date upon obtaining official approval for the extension of the Purchase Order expiry date from the Project Manager. The Contractor must ensure compliance with this protocol before proceeding with any work after the initial expiry date.

3.2. TNPA PROJECT MANAGER

- 3.2.1. The TNPA Project Manager will be the Transnet point of contact for any administrative, payment, or managerial matters related to this tender.
- 3.2.2. The name and contact details of the TNPA Project Manager will be made available to the Contractor upon award of this tender.

3.3. SITE VISIT

Prior to the submission of your quotations, we wish to highlight the importance of conducting a site visit or inspection. This step is essential to establish a comprehensive understanding of the project environment and its specific requirements. It will enable the contractors to accurately assess the scope of work and make provisions for all the resources necessary to execute the project successfully.

DOCUMENT NAME.	REVISION	PAGE
SPECIFICATION FOR CORROSION TREATMENT ON QUAY ACCESS LADDERS AT PORT OF NGQURA FOR A ONCE-OFF PERIOD	01	4 OF 11

3.4. SITE LOCATION

3.4.1. The Port of Ngqura is located at the following address:

Transnet National Ports Authority
Neptune Road
Port of Ngqura
6100

3.5. TNPA HSE REQUIREMENTS

- 3.5.1. After the award of the tender, the successful Contractor must prepare a safety file in adherence to the requirements as set in the *Contractor Compliance File Assessment Checklist*.
- 3.5.2. The Contractor must complete the *Contractor Compliance File Assessment Checklist* (provided **ANNEXURE A**) and submit it for approval to the TNPA Port of Ngqura HSE Department representative. After approval the Contractor will be issued with a *Site Access Certificate*.
- 3.5.3. The Contractor must always have their *Site Access Certificate* with them on site.
- 3.5.4. After the *Site Access Certificate* has been issued the Contractor's Employees must be inducted by the TNPA HSE Department before working on site and in the Port.
- 3.5.5. The *Contractor Compliance File Assessment Checklist* is outlined below. A dedicated copy of this checklist will be supplied to the Contractor to facilitate easy completion and submission after award of the tender.

DOCUMENT NAME.	REVISION	PAGE
SPECIFICATION FOR CORROSION TREATMENT ON QUAY ACCESS LADDERS AT PORT OF NGQURA FOR A ONCE-OFF PERIOD	01	5 OF 11

4. BILL OF QUANTITIES

ITEM NO.	REF. CLAUSE	DESCRIPTION	UNIT	QTY	Rate	Amount
1.		<u>PRELIMINARY AND GENERAL</u>				
1.1		Preliminary and General (detailed breakdown to be provided upon request for such information).	Sum	1		
1.2	3.5	Compliance (SHE) File submission as per Section 3.5 of the Specification.	Sum	1		
2.		<u>CORRISION TREATMENT ON QUAY ACCESS LADDERS</u>				
2.1.	2.2.(i)	Remove and reinstall of quay access ladders	No.	15		
	2.2.(ii)	Surface Preparation	No.	15		
	2.2.(iii)	Treatment	No.	15		
3.		Sub-total				
4.		Add 15% VAT				
5.		TOTAL PRICE				

ANNEXURE A: PORT OF NGQURA SHE MINIMUM REQUIREMENTS

Date of inspection _____

Client	
Employer (Principal contractor)	
Registered name of the enterprise	
Trade name of the Enterprise	
Company Registration No	
SARS registration No (PAYE)	
UIF registration No	
COIDA registration no	
Relevant SETA for EEA purpose	
Industry sector	
Bargaining Council	
Contact person & position	
Contact number	
Site Address	
Postal Address	
Chief Executive Officer	
Chief Executive officer's email and contact number	
Construction Manager	
Health and Safety Representative	
Activities/ Service rendered	
Commencement date	
Completion date	
Site Phone	
Total number of employees on site:	
Female	
Male	
People with disabilities	

CONTRACTOR	Complying	Not Complying (i.e. Comments)	Not Applicable
1. Site Specific Organogram of reporting structure. This document must provide all persons appointed in terms of OHS Act No. 85 of 1993 including contact details. (Rev, date, approval)			
2. Contractor scope of work information (Company Profile)			
3. Notification of Construction Work to the Department of Labour: Document to display required information as per OHS Act No.85 of 1993 – Construction Regulations Annexure A, must carry the stamp of acceptance from the Department of Labour (<i>if applicable</i>)			
4. Application for a permit to do construction work (<i>if applicable</i>)			
5. Valid Letter of Good Standing with FEM/WCA: And proof of relevant insurances to carry out work.			
MANAGEMENT PLANS			
6. Copy of reference documents: Health & Safety, Security, Quality, Environmental, and other applicable Specifications Including a signed register of communication to Managers, Supervisors & Safety Officers			
7. Approved Contractor Execution Plan correlating with Specification provided by Transnet (i.e., Approved health and safety plan, environmental plan, security plan etc.)			
8. Contractors Health and Safety Policy			
9. Site Specific Emergency Plan			
10. Contractors Traffic Management Plan (if applicable)			
11. Procedure for handling Hazardous Chemical Substance's and Applicable Safety Data Sheet (<i>if applicable</i>).			
APPOINTMENTS			
12. Fully completed appointments of the following (depends on the scope of work) but not limited to:			
• Sec. 16(2) – Delegated Authority (Assistant to the CEO)			
• CR 8(1) – Construction Manager			
• CR 8(7) – Construction Supervisor			
• CR 8(8) – Assistant Construction Supervisor			
• CR 8(5) – Construction Safety Officer			
• CR 9(1) – Risk assessment			
• CR 10. (1)(a) – Fall Prevention Planner (<i>if applicable</i>)			
• CR 10. (2)(b) (fall risk) Physical & Psychological fitness			
• CR 23. (d)(k) – Vehicle operator and Inspector			
• GSR 3.4 – First aider			
• CR 29 (h) – Fire Fighter			

• Sec 24, GAR 9(2) – Incident Investigator			
• CR 13(1)(a) – Excavation Supervisor			
• CR 28(a) – Stacking and Storage Supervisor			
• CR 12(1) – Temporary works designer			
• CR 14(1) – Demolition work supervisor			
• CR 16(1) – Scaffolding work supervisor			
• CR 17 (1) – Suspended platform work supervisor			
• CR 18(1)(a) – Rope access supervisor			
• CR 19(8)(a) – Material host Inspector			
• CR 20(1) – Bulk mixing plant supervisor			
• CR 21(2) – Explosive actuated fastening devices inspector			
• Sec 17(1) – SHE Rep (more than 20 employees)			
• GSR 13(a) – Ladder Inspector An abbreviated CV of the above appointed persons shall be attached to the appointment. Competency certificates will also be attached as required in specifications			
13. Elevated work training (Rescue/ Safety harnesses) – accredited Training (<i>If applicable</i>)			
14. Fall Protection Plan by competent person / Rescue Plan (<i>If applicable</i>)			
15. Contract/Project Specific Risk Assessment indicating the full scope of work and risk profile – High risk task inventory registers to be attached.			
16. Risk Assessment (HIRA), Method Statement, Safe Work Procedure to be generated for each specific task to be performed on the contract/project i.e., Site establishment, confined spaces, working at heights, working near water, excavations etc. Note: before establishment they can supply what, they will start with – site establishment, fencing, clear & grub...so only request what is relevant at the time.			
17. PPE Policy and most recent issue register.			
INDUCTION			
18. Induction application forms completed for every employee of the contractor performing work on site; The following shall be attached:			
• Employee Dossier with applicable documentation;			
• Proof of site-specific induction;			
• Copy of ID Document;			
• Legal Letter of Appointment;			
• Proof of competence i.e.: Artisans, drivers, operators etc.;			
• Valid medical certificate of fitness done by an Occupational Health Practitioner (i.e., Annexure 3 for construction work)			
REGISTERS			
19. Copy of equipment registers to be used with copy of each item's inspection checklist. The registers are not limited to the following, depends on the scope of work:			
• Site visitors register			
• Excavation Inspection Register			
• Hand tools Inspection register			

• Barricading Inspection Register			
• Traffic Inspection Register			
• Mobile Toilet Inspection Register			
• Daily Risk Assessment and Toolbox Talk			
• PPE Inspection Register			
• First Aid kit Inspection Register			
• Fire Fighting Equipment Register			
• Portable electrical Equipment Register			
• Pneumatic Tool Register			
• Compressor Checklist			
• Ladder Inspection Register			
• Vehicle Inspection Register			
• Working at Height Equipment Register			
INCIDENT/ACCIDENT MANAGEMENT			
20. Incident /Accident Management Procedure including reporting, recording and investigation of incidents and accidents			
21. Register of first aid injuries			
22. Register of reportable injuries to the Provincial Director			
OTHERS			
23. Section 37(2) mandatory agreement between client - contractor and contractor - sub contractor. As well as:			
• CR 5.1(k) Principal Contractor appointment			
• CR 7(1)(c)(v) Sub Contractor appointment			
24. Training Matrix (Management, Supervisors and Employees)			
25. Copy of the OHS act and its Regulations, COID Act Regulations			

CONTRACTOR'S COMPLIANCE FILE REVIEW			
Date	Print Full Name	Designation	Signature
Status			
Approved			
Not Approved			
Reasons for not approving.			

- Refer to the comments on this document and provide all the documents marked as (X) under the column "Not Complying".

DOCUMENT NAME.	REVISION	PAGE
SPECIFICATION FOR CORRISION TREATMENT ON QUAY ACCESS LADDERS AT PORT OF NGQURA FOR A ONCE-OFF PERIOD	01	11 OF 11