



TECHNICAL SPECIFICATION

For the

Abrasive blast cleaning,

Alterations

&

Painting of North East Boundary Buoy

Specification no.

DATE	
AMENDMENT	0

Subject	Abrasive blast cleaning, Alterations & Paint- North East Boundary Buoy			Specification no.	
Issued by	Operational Supervisor	Date			
Approved by	Regional Manager	Amendment	0	Page no.	1 of 3

SCOPE OF WORKS

All work to be done in the Saldanha area.

Contact persons: Ms. M. Hartzenberg Tel. No: 072 345 2989 Lighthouse and Navigational Systems Procurement Department Cape Town,
 Mr. S. Adams Cell No: 083 388 9504 Lighthouse and Navigational Systems Saldanha Lighthouse Technician,
 Mr. T. Makondo Tel. No: 083 388 9505 Lighthouse and Navigational Systems Cape Town Operational Supervisor.

PROJECT: Alterations, Mineral Slag blasting Abrasive & Paint
North East Boundary Buoy

Buoy Type: 1 Each Steel Buoy AGA BT-53 Type

LOCATION: **Small Craft Harbour** Port of Saldanha.

1. WORK TO BE DONE

The following is required to be done utilizing the Contractor's own site, labour, machinery, equipment, materials for repairs and necessary paints to be applied.

- a) Abrasive blast cleaning over all welded seams for proper magnetic particle inspection, a report of approval of the inspection must be supplied. All faults on report to be rectified. Separate quote with motivation to be submitted if repair cost is above original quote in Bill of Quantities.
- b) Dismantle buoy completely and mineral slag blast whole buoy and parts.
- c) Examine all body parts for defects and rectify where necessary.
- d) Dismantle and examine tail tube and weights for any cracks and defects.
- e) Examine lifting and mooring eyes for cracks & wear, repair or replace where necessary.
- f) Weld up wear on mooring brackets.
- g) Replace 5 x Zinc Anodes ($\pm 7.5\text{Kg.}$)
- h) Replace all steel bolts, nuts & washers with 8.8 high tensile hot dipped galvanized bolts, nuts and washers. An anti-seize compound to be applied to all bolts and moving parts before assembly.
- i) Refurbish hatch cover stainless steel bolts and nuts to be re-used.
- j) Increase ladder backrest width by increasing support backrest radius by 100mm.
- k) Remove grid inside buoy compartment.
- l) Replace hatch rubber with Trucotex rubber.

Subject	Sandblast, Alterations & Paint- North East Boundary Buoy			Specification no.	
Issued by	Operational Supervisor	Date			
Approved by	Regional Manager	Amendment	0	Page no.	1 of 3

2. Painting

- a) First coat: One layer to complete buoy inside and outside Plascon Plascozinc 1 primer two pack Ethyl Silicate coating. Base component to be used with Plascozinc catalyst as per manufacturer specification.
- b) Second coat: One layer inside and outside Plascon Plascoguard 75 French Gray dual pack Epoxy coating. Base component used with curing agent for Plascoguard 75 (PEH125) as per manufacturer specification.
- c) Top Coat: Above waterline two layers Plascon Plascothane 9000 Base component Polyurethane Acrylic finish, the following colour to be applied, tinted to Yellow RAL 1018 colour code used with curing agent as per manufacturer specification and applied by airless spray to suit the international navigational standard.
- d) Inside buoy compartment: One layer white Plascon Plascothane 9000 Base component Polyurethane Acrylic finish White.
- e) Painting Glass Fibre Daymarkers and Top mark two coats to suit relevant top coat.
- f) Airless spray application for all primer and topcoats.
- g) Paint complete buoy below water line two coats Anti-fouling paint from International Intersmooth 360 SPC.

3. QUALITY AND WORKMANSHIP

All welding done to be of SABS 044 standard.

All welding done by qualified person.

All abrasive blasting to be South African standard SA 2.5

All Painting strictly to maker's specifications (can be obtained from International protective coatings and Plascon).

All works must be done to the satisfaction of the TNPA Lighthouse and Navigational Systems Saldanha with inspections during assembly and painting.

4. CLEANING OF SITE

Contractor's site to be used.

5. COMPLIANCE WITH THE OCCUPATIONAL HEALTH AND SAFETY ACT (ACT No. 85 OF 1993)

The Contractor shall comply with the Occupational Health and Safety Act (Act No. 85 of 1993).

The Contractor is, in terms of section 37(2) of Act 85 of 1993 deemed to be an employer in his/her own right with duties as prescribed in the said Act and agrees to ensure that all work will be performed or machinery and plant used in accordance with the provisions of the Act in respect of all persons in his/her employ, other persons on the premises or the site or place of works or on the works to be executed by him/her and under his/her control in terms of the contract.

Subject	Sandblast, Alterations & Paint- North East Boundary Buoy			Specification no.	
Issued by	Operational Supervisor	Date			
Approved by	Regional Manager	Amendment	0	Page no.	3 of 3

REQUESTED BY:

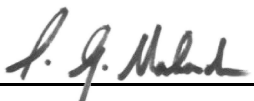
Signature:

Date

Name: Samuel Adams

Designation: Technician Saldanha North Western Region

Supported BY:

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Signature

24/02/2025

Date

Name: Thomas G Makondo

Designation: Operations Supervisor North Western Region

APPROVED BY:

_____

Signature

24/02/2025

Date

Name:

Designation: Regional Manager