

2022

**SCOPE OF WORKS –
MBASHE LIGHTHOUSE**



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LIGHTHOUSE AND NAVIGATIONAL SYSTEMS

3/7/2022



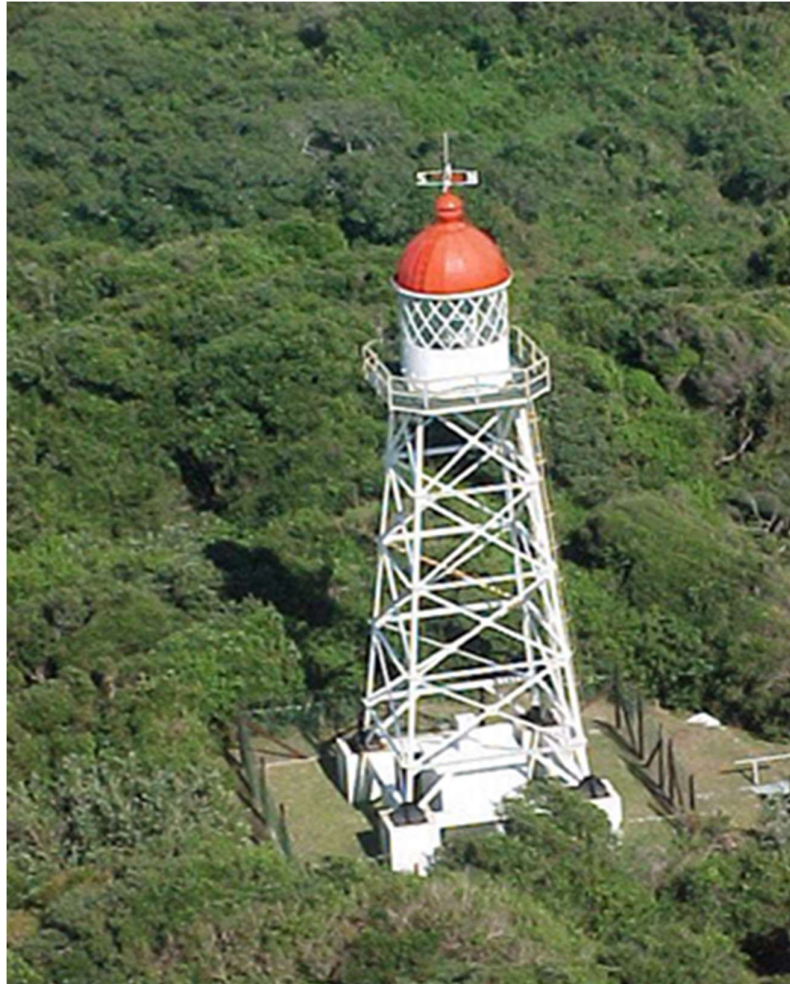
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	Inspection:	Revision: 0

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1. SITE INFORMATION




Mbashe lighthouse is situated near Elliotdale/Mthatha in the Eastern Cape. It was commissioned on 3 December 1926. The structure is a steel lattice tower painted white; white lantern house with red dome. It is 14 metres in height and situated at 47 metres above sea level.

Position:

Latitude - 32° 14.4' S

Longitude - 28° 54.9' E

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2. PURPOSE

The purpose of this document is to outline the scope of work required for repairs to tower and buildings at Mbashe Lighthouse.

3. SCOPE OF WORK

The work shall consist of providing all labour, materials and equipment required for the complete execution of all replacement, repair work and painting specified herein.

3.1 Tower Repairs


- 3.1.1 Chip corroded sections on tower, treat, prepare and paint corroded sections
- 3.1.2 Prepare, treat and paint entire tower.
- 3.1.3 Replace damaged glazings on lantern house
- 3.1.4 Ensure lantern house is free from leaks (waterproof)
- 3.1.5 Prepare and paint lantern house.
- 3.1.6 Replace all rusted bolts on tower.
- 3.1.7 Repair corroded sections on the aluminium ladder, measuring from the top down as follows : 1.75m – 1,7m - 2.9m 0.7m (2 Places).
- 3.1.8 Entrance gate post to be secured into the ground in order for the gate to close properly and must also be secured at the top to prevent movement of the gate post.

3.2 Walkway Bridge - Wooden

- 3.2.1 Creosote the entire structure.
- 3.2.2 Replace all damaged timber sections with similar timber.
- 3.2.3 Secure all loose walkway planks and handrail planks.

3.3 Office and Store Complex

- 3.3.1.1 Repair/replace glass office door.
 - 3.3.1.2 Install securing bolts to prevent the wind from damaging the door.
 - 3.3.1.3 Repair/replace locking mechanism by door.
 - 3.3.1.4 Replace storeroom doors, with new locks and barrel bolts to house a lock and varnish with three coats.
- 3.3.2 **Boundary Fence**
- 3.3.2.1 Replace all galvanised sections of flat wrap with stainless steel flat wrap.
 - 3.3.2.2 All damaged sections of straining wires for the flat wrap to be replaced.

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4. PREPARATION OF SURFACES FOR PAINTING

- 4.1.1 All surfaces specified to be painted shall be dry and cleaned free of all dirt, grit, grease, mould, mildew foreign substances and all loose, peeling blistering, chalking or scaling paint.
- 4.1.2 Loose, peeling, blistering, chalking and scaling paint shall be removed to the refusal point by scraping. Resulting edges of all areas so scraped shall be spackled to a feathered edge and sanded smooth when dry.
- 4.1.3 All exposed rust and areas where rust is indicated under the old paint shall be removed to the bare metal. Bare metal shall be given a spot-coat of a suitable rust inhibitor.
- 4.1.4 All paintwork to be done according to manufacturer's specification.

5. GENERAL

5.1 Works to be left tidy

During the construction of the works, the site shall at all times be kept neat and in a tidy condition. The Project Manager (Lighthouse and Navigational Systems) may order the Contractor to stop all work, until such time as, in his opinion, this condition has been met.

5.2 Cleaning of site

The Contractor must clear away all rubble/waste within 14 days of completion of work or part of the works and leave the site and surrounding area in a clean and acceptable state. All rubble must be disposed of as per the National Environmental Management: Waste Act, No. 59 of 2008 (G32000).

5.3 Quality and workmanship

All works must be done to the satisfaction of Lighthouse and Navigational Systems. All work must be guaranteed at least one year after satisfactory completion. Paintwork should have a seven year guarantee.

5.4 Accommodation

No accommodation camp can be set up at a site. Staff toilets will not be catered for by LNS, contractor to bring their own.

5.5 Water


There is limited water available at the site.

5.6 Electricity

There is electricity supply onsite.

5.7 Access

Special access arrangements will have to be made with TNPA LNS for the vehicles and personnel.

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5.8 Compliance


- 5.8.1 The contractor shall not be exempt from compliance with any statute, regulation or by-law imposing duties or obligations upon him/her as a contractor, and that he/she shall not be entitled to claim relief from any burden or infringement of his/her rights resulting from the operation of any such statute, regulation or by-law or any action lawfully taken there under by any local or other competent authority.
- 5.8.2 The Contractor shall comply with the following:
- 5.8.2.1 The Safety Standards and regulations as laid down in the Occupational Health and Safety Act, No 85 of 1993.
 - 5.8.2.2 Lighthouse and Navigational Systems Safety, Health and Environment (S.H.E.Q) Specification.
 - 5.8.2.3 The Environmental Laws of South Africa, in particular the National Environment Management Act 107 of 1998, as amended.
- 5.8.3 The Contractor shall provide Lighthouse and Navigational Systems with a Certificate of Compliance for all electrical work executed.
- 5.8.4 The responsibility for adherence to these requirements rests with the Principal Contractor, failure which will result in stop work being issued.
- 5.8.5 The contractor must understand that TNPA Lighthouse and Navigational Systems has the right to stop all work if non-compliances are observed. Work stopped by TNP LNS due to non-compliance will be liable to penalties.

5.9 Penalties

Penalties shall be applicable when work is not completed on time and not according to the Scope of Works. If the contract is not completed or completion is delayed as a result of non-adherence to the safety standards, and/or environmental management principles, the penalty clause shall come into effect.

5.10 Bill of quantities

No Bill of quantities is provided. The Tenderer shall determine and verify all work and materials required and quote accordingly. Quotations submitted by Tenderers to specify in detail the type of material being used as well as the manufacturers name and part numbers of all fixtures/fittings that is being replaced. No variations orders shall be applicable.

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5.11 Grading designation

Only those tenderers who are registered with the CIDB or are capable of being so prior to the evaluation of submissions, in a contractor grading designation equal to or higher than a contractor grading designation determined in accordance with the sum tendered or a value determined in accordance with Regulation 25(1B) or 25(7A) of the Construction Industry Development Regulations, for a 3 GB or higher class of construction work, are eligible to have their tenders evaluated.

6. SIGN OFF

Compiled by:  23/03/2022
Operational Supervisor Date

Supported by:  29/03/2022
Technical Services Manager Date

Approved by:  29/03/2022
Regional Manager Date