



NATIONAL MARITIME SAFETY AUTHORITY

Terms of Reference

TASK DESCRIPTION

PROJECT/TASK TITLE:	Relocation of Biälla AtoN Pile No.8
EXECUTING AGENT:	National Maritime Safety Authority (NMSA)
IMPLEMENTING AGENT:	National Maritime Safety Authority (NMSA)
PROJECT SPONSOR:	General Manager /CEO
PROJECT LOCATION:	Biälla, West New Britain Province
COMMENCEMENT:	
PROJECT DURATION:	

1. INTRODUCTION/BACKGROUND

The Navigation Safety Services Department (NSSD) of the National Maritime Safety Authority (NMSA) is responsible for the operation and maintenance of all marine Aids to Navigation (AtoN) sites and structures in and around PNG waters. The NSSD has funds allocated in its 2018 Work Plan and intends to utilize these funds to relocate Bialla AtoN, Pile No.8 (and light) from its current location.

The current AtoN, Pile No.8, is located in Bialla, West New Britain Province about 133km west of Kimbe. GPS position coordinates: **0.5°18.004' S 151° 00.084' E**

The AtoN's primary function is to indicate and warn of the shallow reef at its southern end when making a turn on approach and departure from the small passenger wharf.

The AtoN from its current location is causing navigational errors to vessels manoeuvring in and out of Bialla passenger wharf, especially at night. NMSA now requires this AtoN relocated to a more suitable location. The AtoN (Pile and Light) will be located to the southern end of the reef. The AtoN will still serve the same purpose for navigation with less or nil errors from proposed location.

2. OBJECTIVE

The main objective of this project is to eliminate navigational errors to vessels when manoeuvring in and out of the passenger wharf in the night. To do that, we need to relocate the navigational light to a more suitable location where it can be more effective for its intended purpose, i.e. ensuring vessels a safer navigational passage in and out of the passenger wharf.

The intended location must ensure the extreme southern end of the reef is clearly indicated to vessels manoeuvring near that reef. The AtoN shall be completed with the same specifications as the currently installed one.

The navigational light and the pile shall meet all IALA standards/requirements and also certain specifications as requested by NMSA.

3. CONSTRAINTS

The constraints expected from this project include:

- The depth of the water and speed of the currents at the proposed site if, the Pile is to be located in the water.
- Consultations must be carried out with the appropriate locals before and during works are carried out.
- All rubbish during and after the installation works completion must be collected and stored for proper disposal.
- Works carried out must not have long term negative environmental impacts or affect the livelihood of communities in a negative manner.

4. REQUIREMENTS FOR THE BIDDER

4.1 GENERAL PRINCIPLES

By accepting the Terms of Reference (ToR), the Bidder agrees and confirms that they meet the following general conditions:

- The Bidder give an assurance of proof of evidence that all employed staff and sub-contractors involved in this project are qualified in their relevant field and are certified where required to the PNG standards and international standards and requirements.
- The Bidder must be currently registered as required under the PNG Companies Act 1997 and must always comply with the requirements and guidelines of the Investment Promotion Authority (IPA) and Internal Revenue Commission (IRC).
- The Bidder must comply with all tax requirements of the Internal Revenue Commission (IRC) and must have a current operating Certificate of Compliance (CoC).
- The Bidder on accepting the Terms of Reference shall return to NMSA the Bidder's Proposal for the project which shall include the costing for the successful completion of the project.
- All design and drawings for the project shall upon completion of the Project be the property of National Maritime Safety Authority (NMSA) and shall be properly collated and labeled and handed over to NMSA.
- Upon the successful completion of the Project a Completion Report is to be submitted to the NMSA Representative within ten (10) working days.
- A Maintenance Plan for the continued use of the new AtoN structure shall be submitted to NMSA on completion of the project concurrently with the Completion Report.

4.2 QUALIFICATIONS AND EXPERIENCES

The successful Bidder is expected to be technically qualified and experienced and having all the required working assets for commencement through to completion of the project. The Bidder shall provide a summary of its technical qualifications and experiences and include a list of all its working equipment to be engaged in the project.

4.3 EXPECTED RESPONSE PROPOSALS

EOI are required to detail the following requirements;

- Works implementation schedule
- Schedule of rates
- Detail proposed methods of mitigating the constraints, issues and requirements stated above in achieving the objective

5. SCOPE OF WORKS (SoW)

The scope of works shall include all the negotiations and works to bring about the new AtoN structure to an acceptable degree of structural integrity, safety and security for the support of the AtoN equipment set on the structure and the technician(s) whom attend to its maintenance.

5.1 SCOPE OF WORK AND REQUIREMENTS

1. The approved contractor before commencement of works, shall provide NMSA with their schedule of works and costing.
2. The AtoN site at **0.5° 18.119' S 151° 00.110' E** is to be surveyed by a qualified diver if the pile is to be installed in the water. The diver shall confirm a suitable resting place for the base of the pile.
3. The Pile with the same specifications as the current Pile is to be installed. It should be of 600mm diameter with a platform and including a 1 meter pedestal post on the platform giving a final height above sea level of 7 meters. The Pile should meet IALA requirements.
4. The lantern currently on the existing pile shall be removed with due care and placed in proper storage for the duration of the works. Upon completion of the pile structure it should then be re-installed on the pedestal of the new structure with all its accessories
5. The approved contractor shall if needed, liaise with locals in the surrounding area and inform them of the works to be carried out.
6. Upon completion of works, the site shall be cleared of all debris and unused items.
7. After the completion of the project, NMSA shall inspect the installation and the authority shall give final approval of acceptance.

8. EXPECTED OUTCOMES

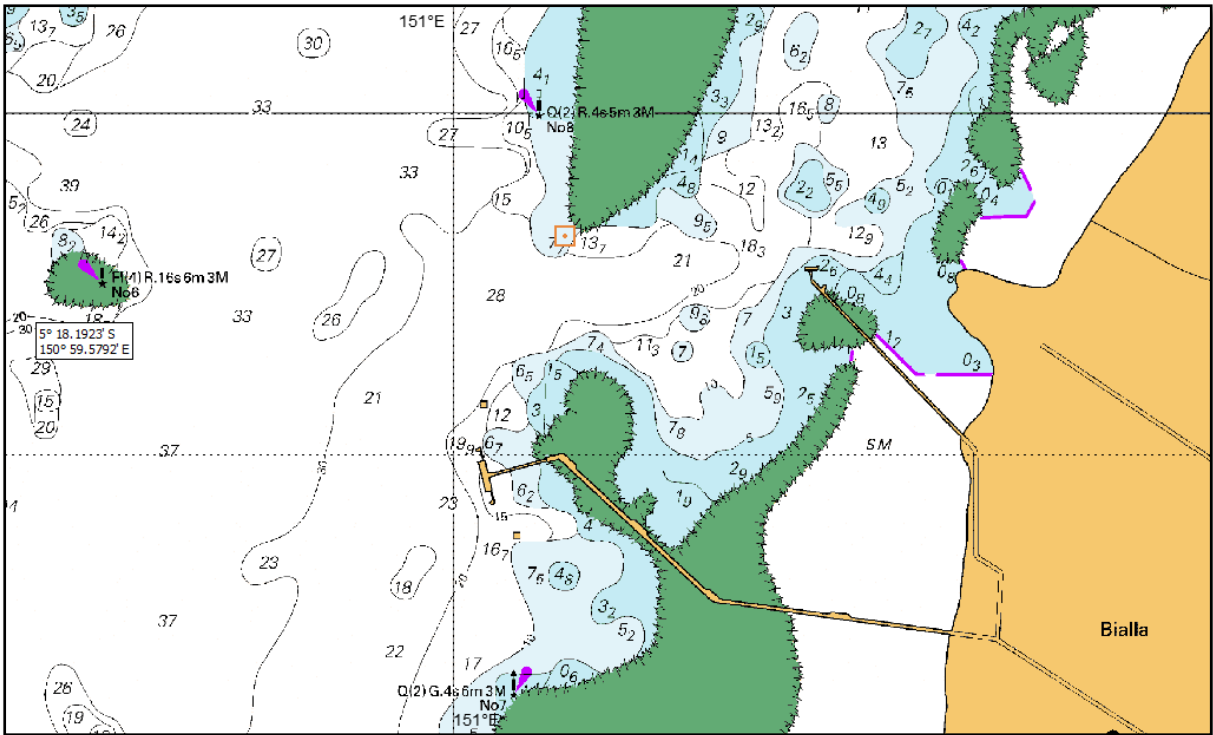
The installation of the new structure shall be completed in a professional and timely manner incorporating a high standard of works and finish and should comply with all known best practices. NMSA expects to have on completion a structure that meets IALA standards, is structurally sound and causes the least environmental impact as possible.



- General location of the Bialla No.8 beacon in Bialla, West New Britain province.



- Vessel arriving from the north or leaving have to navigate around the southern end of the reef.



- Marine chart AUS 677. Proposed new site is denoted by the red square. GPS coordinates: $05^{\circ} 18.119' S$ $151^{\circ} 00.110' E$.



- The Bialla No.8 beacon.