



NATIONAL MARITIME SAFETY AUTHORITY

Terms of Reference

TASK DESCRIPTION

PROJECT/TASK TITLE:	Coast Watchers Lantern Restoration
EXECUTING AGENT:	National Maritime Safety Authority (NMSA)
IMPLEMENTING AGENT:	National Maritime Safety Authority (NMSA)
PROJECT SPONSOR:	General Manager / CEO
PROJECT LOCATION:	Madang
COMMENCEMENT:	March 2018
PROJECT DURATION:	Ten (10) weeks

1. INTRODUCTION/BACKGROUND

The Navigation Safety Services Department of the National Maritime Safety Authority (NMSA) is responsible for the operation and maintenance of all marine aids to navigation in the PNG waters. As such it is responsible for the up keep of the famous Coast Watchers “Kalibobo” Light House located in the township of Madang, Madang Province.

As a monument to commemorate the brave hearts who fought in alliance against the Japanese during World War Two (WWII), this lighthouse was officially dedicated and switched on for the first time on the eve of Saturday, August 15th, 1959.

Madang was the spot chosen for the Coastwatchers’ Memorial Lighthouse in January 1954. Its design resembles a torpedo (underwater missile) in memoriam of those Coast Watchers who have fallen and those dedicated locals who gave their life during WWII.

NMSA had allocated budget in its 2018 Work Program to undertake this restoration.

2. OBJECTIVE

The sole objective is to restore the rotating lantern of the Coast Watchers “Kalibobo” Lighthouse with a. original like Rotating Beacon Lantern that is modern yet authentically similar to the original used when the lighthouse was officiated. Expected luminance range is 22 nautical mile.

(note: NMSA has a notable supplier for the new rotating beacon, contact details can be requested from NMSA)

3. CONSTRAINTS

This project will offer some constraints in which the bidder must successfully overcome in order to meet the project objective and deadline. Some of these constraints would be but are not limited to;

- This project is to be carried out in Madang Province thus will involve some logistics to be undertaken.
- The new equipment must have corrosion and weathering controlling measures such as being (IP64) waterproofing grade.
- The previous lantern and rotating mechanism is to be removed with as little damage and alterations as possible to the tower structure.
- The new beacon is to be installed with minimal damage and alterations as possible to the tower structure.
- As space is limited, the new lantern and rotating mechanism must be made to fit.

- Security features must be incorporated to prevent un-authorized access and thus prevent vandalism or theft of the equipment.
- All rubbish during and after the works completion must be collected and removed from the sites in an environmentally friendly manner.

4. REQUIREMENTS FOR THE BIDDER

4.1 GENERAL PRINCIPLES

By accepting the Terms of Reference (ToR), the Bidder agrees and confirms that it meets the following qualification requirements:

- The Bidder give an assurance of proof of evidence that all employed staff and sub-contractors involved in this project are qualified for their relevant field and are certified where required to the PNG standards and international standards certification.
- 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).
- The Bidder must comply with all tax requirements as required by 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, drawings and intellectual material for the project shall after 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.

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.

4.3 EXPECTED RESPONSE PROPOSALS

EOI are required to detail the following requirements;

- Works implementation schedule
- Schedule of rates

- Detail method of works plan, including mitigating the constraints, issues and requirements stated above in achieving the objective
- Proposed rotating beacon (indicate preferred supplier and type)

5. SCOPE OF WORKS (SoW)

The scope of works shall include all the negotiations and works to bring about the installation of the new rotating beacon on the Coast Watchers lighthouse.

5.1 SCOPE OF WORK AND REQUIREMENTS

1. The Bidder is to source and acquire a Rotating Beacon Lantern and rotating mechanism which is desired by the NMSA authority upon specifications given to the bidder.
2. The old beacon and rotating mechanism upon the lighthouse are to be carefully removed to make way for the new beacon.
3. The new rotating beacon is to be installed within the required parameters on top of the lighthouse with as little alterations as possible to be carried out.
4. The lantern and mechanical rotating system is to be tested and meet the requirements of light emittance as required from IALA Aids to Navigation Guide.
5. The rotating beacon must have security features to prevent any illegal and unauthorized attempts to access and or sabotage the site or the equipment.

6. EXPECTED OUTCOMES

The Coast Watchers Kalibobo Lighthouse to have installed a new modern Rotating Beacon Lantern with a sturdy and reliable rotating mechanism to provide Aid to Navigation coverage for marine traffic with at least 22 nautical millage of the lighthouse.

7. MEET THE STANDARDS

Lantern shall meet the following minimum standards.

- ISO 9001:2018 Quality Management System
- IALA Specifications and Standards (IALA Aids to Navigation Manual NAVGUIDE 2010)

8. TERMS OF CONTRACT AND PAYMENT

A legally binding contract agreement will be established with the preferred bidder, within which the scheduled of payments will be set.

Photo; Coastwatchers' Kalibobo Lighthouse



Ariel View of Coast Watchers Lighthouse.

