







Current Condition of The 7 AtoN

In general, the current condition of the 7 AtoN are as follows:

- Tower are collapsed
- AtoN equipment are missing or damage
- Power house and generator are damaged
- Housings for lighthouse guard are collapsed





















5

OBJECTIVES

To replace aids to navigation of the Coast of Sumatra Island in the Straits of Malacca and Singapore (Straits) that were damaged by the tsunami incident in December 2004 to ensure continued safety of navigation for vessels.

6

Needs

- The tsunami incident in December 2004 caused a huge impact on the northern part of Sumatra Island, in particular in the area of Aceh Nangroe Darussallam in which several important AtoN along the eastern coast of Sumatera (5 LH & 2 LB) were seriously damaged.
- These AtoN are not only are important for vessels transiting the eastern coast of Sumatra
 but are also used by vessels transiting the Straits of Malacca and Singapore. These aids are
 important to be replaced to ensure continued safety of vessels navigating within the
 impacted area.

Preferred type of new AtoN construction









Drum Steel

Benefits & Scope of Project-6

POTENTIAL BENEFITS

- Ensuring the safe passage of vessels in the Straits. In particular those vessels that ply near the eastern coast of Sumatra Island.
- In the long run this project will be important for the Straits to continue to be safe and open to international shipping.
- Reducing the number of shipping incidents that may be detrimental to the marine environment.

SCOPE OF PROJECT

- Renewal of the identified aids to navigation that are damaged by the installation of new aids to navigation to replace the damaged 5 lighthouses and 2 light beacons.
- Soil investigation and detailed engeneering to determine exact structure to be built to replace the damaged aids.

8

Requirement

RESOURCES REQUIRED

Resources and funding will be required to conduct:

- Detailed survey of the locality of the aids to navigation
- Preparing the design of the aids, construction
- Installation of the aids to navigation
- Training of personnel
- Maintenance of the aids to navigation.

ESTIMATED COST: USD 6.000,000.-

PROPOSED SCHEDULE: 3 YEARS

→ Considering the importance role of the 7 aids, the reconstruction of the aids is required to be completed in next to no time.

9

Cooperation & Implementation

POSSIBLE COOPERATION AREAS

- One or more user State or other interested stakeholders may cooperate and provide assistance is the form of:
 - Contributing of funds of the replacement and maintenance of aids to navigation; and
 - Contribution in-kind by directly replacing the aids to navigation and providing a scheduled maintenance service for those aids.
- In this regard the modality used by the Malacca Straits Council may provide a useful model to emulate.

PROJECT IMPLEMENTATION

Project-6 is to be implemented under the framework of Cooperative Mechanism.

10

