

(30) (420)

5. **Strategic Location of East Island Light House.** The East Island Light House is strategically located near the Coco Island (13 Deg) channel which witnesses heavy shipping traffic being one of the important sea line of communication(SLOC) connecting East Coast of India with Malacca Strait and South East Asian countries.

The strategic location of East Island Light House makes it ideal for installation and operation of Radar Station for optimum utilization of the system to monitor the SLOC 24 x 7. The Installation of Radar station at East Island will enhance the overall efficacy of Coastal Security Mechanism of the Island.

6. **Out Line Plan of the Project.** The Radar will be installed on the lattice (structure made up of MS pipes) in position 13 Deg 37.892 Min N and 093 Deg 02.872 Min E. The Radar will be fitted with state of art electronic sensors viz video distributing and tracking system, Day/Night Long Range Electro Optic sensor, and Metrological equipment. These electronic sensors will be fitted alongwith the Radar and will operate in passive mode. Hence, they will not have any impact on surrounding flora and fauna. Dimensions of the lattice are mentioned below:-

- |                                      |                    |
|--------------------------------------|--------------------|
| (a) Height                           | - 28 meters        |
| (b) Area for the base of the lattice | - 5 x 7 meters     |
| (c) Structure                        | - MS PIPES         |
| (d) Radar                            | - X & S band Radar |

7. **Process of Installation.** Pre-fabricated, dismantlable structure of lattice will be shipped to East Island Jetty by ships and then load will be shifted to the light house premises utilizing existing road/pathways by motor transport/manually. The lattice will be assembled and erected on the cemented platform of 5 X 7 X 0.7 meters. On erection of lattice, the Radar and above mentioned sensors would be installed by the M/s BEL, Bangalore.

8. **Power Supply.** The DGLL has existing building and same will be utilized to house 62.5 KVA DG set and solar batteries. Hence, installation of this Radar Station will not cause any impact on available natural resources.



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