

## Request for quotation services (RFQ)

<b>Marine Environmental impact assessment (EIA) for the work Security Infrastructure/ Shore protection at Haddo area at Port Blair</b>	Date : 12-09-2016
	Project no: IC/16-17/OEC/006/GAAR/KMUR

Dear Sir / Madam:

We kindly request you to submit your quotation for **Marine Environmental impact assessment (Marine EIA) the work security Infrastructure at Haddo area at Port Blair**, details of which are in Annex 1 of this RFQ.

Quotations may be submitted on or before September 20, 2016 (Close of Business) via Hardcopy, addressed to **Prof. K. Murali, Department of ocean engineering, Indian Institute of technology Madras**

### CONTACT PERSON:

[Dr. K.Murali, Professor]

### Email:

[murali@iitm.ac.in](mailto:murali@iitm.ac.in).

[dr.murali.iitm@gmail.com](mailto:dr.murali.iitm@gmail.com)

Department of ocean engineering,  
Indian Institute of technology Madras,  
Chennai – 600036.

Phone no.: 044- 2257 4816

It shall remain your responsibility to ensure that your quotation will reach the address above on or before the deadline.

Please take note of the following additional requirements and conditions pertaining to the supply of the abovementioned good/s or services

**Payment terms and address for contact.**

Delivery Address / Location	<b>Dr. K.MURALI</b> (Professor) Department of ocean engineering, Indian Institute of technology Madras, Chennai – 600036.  Phone no.: 044- 2257 4816  Email: murali@iitm.ac.in dr.murali.iitm@gmail.com
Delivery Date	20 September, 2016
Payment Terms	1) 50% Advance payment 2) 50% Balance payment on submission of final report
Tax on Price Quotation	Must be inclusive of VAT and other applicable indirect taxes
Deadline for the Submission of Quotation	20 September, 2016 to <b>Dr. K.MURALI</b> (Professor) Department of ocean engineering, Indian Institute of technology Madras, Chennai – 600036.

## **Annex –I**

### **Project Objective:**

MES has approached IIT Madras for the consultancy work to construct “Augmentation of security infrastructure at Haddo area” in Port Blair, Andaman & Nicobar Islands, for the protection of shore for a length of about 270m. The consultancy service required for project undertaken for Indian Navy by IIT madras consist of survey and EIA study. The study consists of land development and shore protection. It has been suggested by IITM to provide Gabion box for the protection of shore.

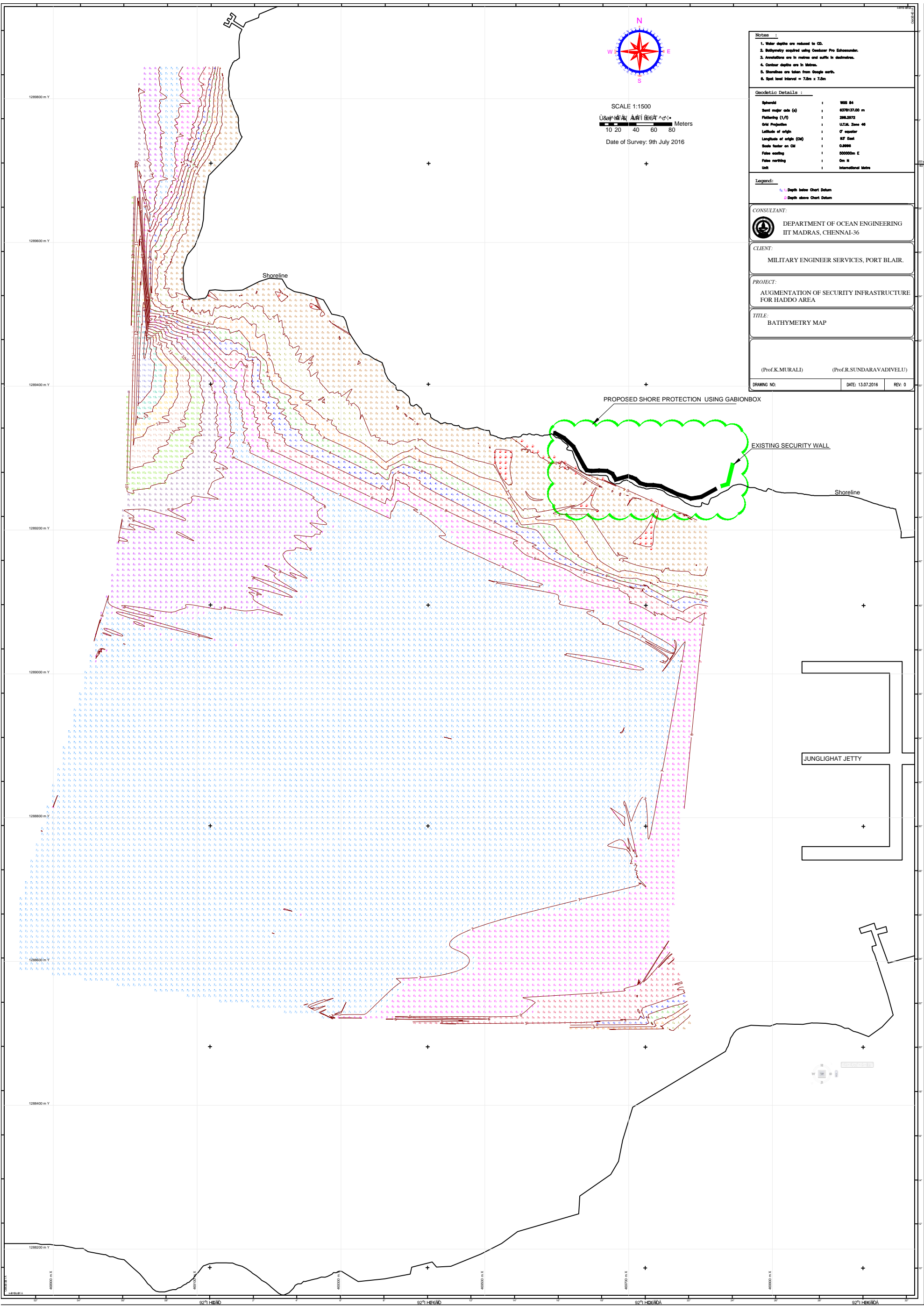
The work comprises of EIA study. The Bathymetry chart indicates the location of Shore protection. The drawing has been included in the annex. The Scope of work for the EIA study is as follows

### **Scope of Work:**

EIA study:

- (I) EIA including Environment impact with in 3.0km radius due to construction of shore protection works especially with respect to aquatic/ marine ecology. Physcio – chemical& biological analysis of sea water quality, Survey of site characteristics, air quality, water quality, noise levels, forest cover land use, flora & fauna and ecology. Collection of secondary data on location, social economics etc, conforming to environmental guidelines of MOEF complete all as specified.
- (II) Presenting the EIA study for obtaining MOEF clearance.

Prof. K. Murali



**Notes :**

1. Water depths are reduced to CD.
2. Bathymetry acquired using Oceanic Pro Echosounder.
3. Annotations are in metres and suffix in decimetres.
4. Contour depths are in Metres.
5. Shorelines are taken from Google earth.
6. Spot level interval = 7.5m x 7.5m

**Geostatic Details :**

Spheroid	:	WGS 84
Semi major axis (a)	:	6378137.00 m
Flattening (1/f)	:	298.2572
OID Projection	:	UTM, Zone 48
Latitude of origin	:	0° equator
Longitude of origin (G0)	:	87° East
Scale factor on CD	:	0.9998
False easting	:	500000m E
False northing	:	0m N
Unit	:	International Metres

**Legend:**

- Depth below Chart Datum
- Depth above Chart Datum

**CONSULTANT:**

DEPARTMENT OF OCEAN ENGINEERING  
IIT MADRAS, CHENNAI-36

**CLIENT:**

MILITARY ENGINEER SERVICES, PORT BLAIR.

**PROJECT:**

AUGMENTATION OF SECURITY INFRASTRUCTURE  
FOR HADDO AREA

**TITLE:**

BATHYMETRY MAP

(Prof.K.MURALI) (Prof.R.SUNDARAVADIVELU)

DRAWING NO: DATE: 13.07.2016 REV: 0