

**Centre for Industrial Consultancy and Sponsored Research (IC & SR)  
IIT Madras  
INVITATION FOR BID**

For and on behalf of IC & SR, IIT Madras, sealed tenders are invited in Duplicate under Single Part Tender System for the following work being executed by IIT Madras:-


1)	Description:	<p>1. Hydrographical survey comprising of near shore bathymetry up to 10m water depth for stretch of 4k.m along the coast.</p> <p>2. Geophysical survey for a 2 Sqkm area along the proposed area.</p> <p>(Detailed scope of work as mentioned under Section-III of this specification).</p>
2)	Specification No.	<b>oe/Car Nicobar/2017/2</b>
3)	Earnest Money Deposit:	Waived
4)	Last date for Submission of Bid:	<b>16.00 Hrs. IST on 22.06.2017</b>
5)	Date & Place of Opening of Tender (Techno commercial bid):	<p><b>16.01 Hrs. IST on 22.06.2017</b></p> <p><b>Rm.005, Ground Floor, Department of Ocean Engineering, IIT Madras, Chennai 600036</b></p> <p>If the due date happens to be a holiday, the tender will be received &amp; opened on the next working day.</p>
6)	Validity of offer:	60 days from the date of opening.
7)	Method of submission of tender:	Single cover system
8)	Number of tender offer copies to be furnished:	In Duplicate.



  
**Dr. K. MURALI**

9)	Clarification to be obtained from:	<p>Prof. K. Murali  The Project Coordinator  Department of Ocean Engineering  IIT Madras, CHENNAI - 600 036  TAMIL NADU  Phone no.: 044- 2257 4816</p> <p>Email.:  murali@iitm.ac.in  dr.murali.iitm@gmail.com</p>
10)	Cost of Tender specification	Nil
11)	Tender Inviting Authority:	<p><b>THE Dean,</b>  <b>IC &amp; SR IIT, Madras, Chennai – 600 036</b></p> <p><b>Telephone No: (91) (44) 2257 8061</b>  <b>Fax No: (91) (44) 2257 0545</b></p>



  
**Dr. K. MURALI**  
Professor  
Department of Ocean Engineering  
Indian Institute of Technology Madras  
Chennai - 600 036, India

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**SECTION - I**  
**INSTRUCTION TO BIDDERS**

**1.1 General:**

Separate sealed competitive bid under "Single cover system" is invited in Duplicate for the following works.

**1.2 Scope of work:**

The scope of the study shall include:

- ❖ Hydrographical survey comprising of near shore bathymetry up to 10m water depth for stretch of 4k.m along the coast.
- ❖ Geophysical survey for a 2sqkm area along the proposed area.

(Detailed scope of work as mentioned under Section-III of this specification).

**1.2.1 Specification No: oe/Car Nicobar/2017/2.**

**1.2.2 Cost of Tender Specification: Waived**

**1.3 EARNEST MONEY DEPOSIT (EMD): Waived**

**1.4 Schedules for Receipt and Opening of Bid:**

- a) Last date and time for receipt of bids : **16.00 Hrs. IST on 22.06.2017**
- b) Date and time for opening of bids : **16.01 Hrs. IST on 22.06.2017**

**1.5 Submission of Tender:**

Tender should be furnished in sealed cover, super-scribed as "Hydrographical survey comprising of near shore bathymetry up to 10m water depth for stretch of 4k.m along the coast and Geophysical survey for a 2 Sqkm area along the proposed area".

The offer should be addressed to:

Prof. K. Murali  
The Project Coordinator  
Department of Ocean Engineering  
IIT Madras, CHENNAI - 600 036, TAMIL NADU

and if handed over in person, the same shall be handed over to **Rm.005, Department of Ocean Engineering, IIT Madras** on or before the due date and time specified above.

**1.5.1** The Bidders have the option of sending the bid by Registered post, Courier or submitting the bid in person, so as to ensure that the bids are received in the specified office of the Purchaser, by the date and time indicated in the Sl.No.1.5 above. Bids submitted by Telex/ Fax/ Telegram/e-mail etc. will not be accepted.

### **1.6 Opening of Tender**

The tenders will be opened at **Rm.005, Ground Floor, Department of Ocean Engineering, IIT Madras** on the due date and time prescribed in the presence of such of those tenderers who may desire to be present. If the due date for tender opening happens to be a holiday, the tenders will be opened on the next working day.

The individuals attending the opening of tenders should be duly authorized by the participating firms in the tender.

If the tenderer has any doubt about the meaning of any portion of this specification, he may address the Tender Inviting authority which should reach at least one week before opening of this tender. Any clarification received after this date will not be entertained.

### **1.7 Tender Inviting Authority**

**THE Dean,  
IC & SR IIT, Madras, Chennai – 600 036  
Telephone No: (91) (44) 2257 8061  
Fax No : (91) (44) 2257 0545**



  
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## SECTION – II

### COMMERCIAL AND TECHNICAL CONDITIONS

#### 2.1 GENERAL

The scope of services shall be as detailed in Section - III of this specification.

#### 2.2 LOCATION

The site is located in the Car Nicobar falls in between Little Andaman and Nancowry. The area south to the Ten-degree channel comes under Car Nicobar headquarters

#### 2.3 COMPLETENESS OF TENDER

The tender should be complete in all aspects. The tenderer shall furnish all relevant details called for in the specification with supporting documents wherever required for considerations by IC & SR. The tenders not containing the complete details as requested in the specification are liable for rejection.


#### 2.4 PRICES

Tenderers shall quote FIRM Price only. Shall quote price separately for each item in the respective schedule as prescribed in the specification

#### 2.5 VALIDITY OF TENDERS

Tenders should be valid for acceptance for a period of at least **Sixty (60) days** from the date of tender opening. In case any bidder quotes a lower validity period than that called for, his offer shall be liable for rejection. In exceptional circumstances, the purchaser may solicit the bidder's consent to an extension of the period of the validity. The request and response thereto shall be made in writing (including fax or telex).



  
Dr. K. MURALI  
Professor



## 2.6 PAYMENT TERMS:-

The consultant shall be paid lump sum fee / charges for providing the consultancy services as per the schedule below at the specified percentages:

Sl. No.	Description	% Total Consultancy
1	a. Mobilization advance (after mobilization of equipment and commment of work)	25%
	b. On submission of Draft report	50%
	c. On submission of Final Reports	25%

**2.6.1** Payment will be made by Cheque / Bank transfer on any one of the commercial banks or their branches in India as may be decided by IC & SR from time to time. If the contractor requests for DD payment, Exchange Commission for issue of bank draft will be to the account of the consultant.

**2.6.2** Offers agreeing to the above terms of payment will be preferred. IC & SR may reject the offers with other terms of payment.

## 2.7 Schedule of Submission of Report:

Submission of Draft report : 4 weeks from the date of award of work

Submission of Final Report: 6 weeks from the date of award of work



  
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## **2.8 FORCE MAJEURE**

- 2.8.1** Neither the Contractor nor the Purchaser shall be considered in default in performance of its obligations hereunder if such performance is prevented or delayed for any causes beyond the reasonable control of the party affected, such as war, hostilities, revolution, riot, civil commotion, epidemic, major fires, explosions, floods, earthquakes or because of any law, order, proclamatory regulations or ordinance of Government or because of any act of God, provided notice in writing of such cause with necessary evidence that the obligation under the Contract is thereby affected or prevented or delayed, is given within 14 days from the happening of the event and in any case it is not possible to serve the notice within 14 days period, then within the shortest possible period without delay. In case the force majeure conditions prolong beyond a continuous period of 6 months, the Purchaser shall be entitled to decide the further course of action including revisions in the terms of Contract, if any.
- 2.8.2** As soon as the cause of Force Majeure has been removed, the party whose ability to perform its obligation has been affected shall notify the other party the actual delay occurred on account of such activities.
- 2.8.3** Although the time for completion of work shall be suitably extended (not exceeding the period during which the work was stopped on account of Force Majeure clause), such extension shall not result in any financial claim by the Contractor against the Purchaser or any account of such a delay for any other reason whatsoever.

## **2.9 SERVICE TAX & INCOME TAX**

The price quoted shall be firm and shall be inclusive of all statutory levies and taxes including service tax. Necessary income tax will be deducted at source on each bill as per the regulations in force. If the Institution is exempted from payment of income tax, the documentary evidence for the same has to be furnished.

## **2.10 JURISDICTION FOR LEGAL PROCEEDINGS**

No suit or any proceedings in regard to any matter arising in any respect under this contract shall be instituted in a Court Save in the City Civil Court of Chennai or the Courts of Small Causes at Chennai. It is agreed that no other courts shall have jurisdiction to entertain any suit or proceedings even though part of the cause of action might arise within their jurisdiction. In case any part of cause of action arises within the

jurisdiction of any of the courts in Tamil Nadu and not in the courts in the Chennai City, it is agreed to between the parties that such suits or proceedings shall be instituted in a court within Tamil Nadu and no other court outside Tamil Nadu shall have jurisdiction, even though any part of the cause of action might arise within the jurisdiction of such courts.

The bidders shall furnish an undertaking in a non-judicial stamp paper of value Rs.80/- agreeing to the above condition as per schedule furnished in Annexure-II.

## **2.11 ARBITRATION**

Arbitration is not applicable to this contract.

## **2.12 SPECIAL CONDITIONS**

The tenderers should clearly indicate their acceptance or otherwise to the following terms and conditions.

1. Specific acceptance of Board's terms of payment.
2. Board's terms of Liquidated damages for delay in completion of work.
3. Validity of tender.

If no indication is given by the tenderer in his offer, it is presumed that the tenderer is agreeable to the terms and conditions of IC & SR mentioned in the specification.

All information in the bid shall be in ENGLISH only. All corrections, over typing etc. in the tender should be attested.

Tenderers are advised to post sufficiently early so as to ensure that the tenders reach this office in time. Tenders though posted in time but delayed in transit by post will not be considered, if received after the due date and time.

## **2.13 DEVIATIONS IN TENDER**

Offers which conform to the specification without any deviation will be preferred. If the tenderer wants to deviate from any of the terms and conditions, the same shall be mentioned clearly.



  
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## 2.14 IC & SR BOARD RESERVES THE RIGHT

- a) Not to accept the lowest or any tender.
- b) To reject any or all the tenders without assigning any reasons thereof.
- c) To relax or waive any of the conditions stipulated in the tender specification as deemed necessary in the best interest of the project for good and sufficient reasons.
- d) To revise the quantum of works/completion period of work of any or all the items covered by this enquiry during the pendency of contract and to terminate the contract in between the agreed stipulated period.

## 2.15 EVALUATION AND COMPARISON OF TENDER OFFERS

- a) The evaluation of the Tender will be done as per IIT Madras guidelines IC & SR.
- b) The evaluation shall include contract value of works with applicable sales/service tax, etc.,
- c) In case of discrepancy between the prices quoted in words and in figures, the lower of the two shall be considered.

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## **SECTION – III**

### **TECHNICAL SPECIFICATION**

#### **1. SCOPE OF SERVICE**

##### **1.1. SCOPE OF WORK**

The scope of the study shall include

- ❖ Hydrographical survey comprising of near shore bathymetry up to 10m water depth for stretch of 4k.m along the coast.
- ❖ Geophysical survey for a 2sqkm area along the proposed area.

##### **1.2. COMPONENTS**

###### **1.2.1 Bathymetry survey**

To carry out bathymetric survey around the project site, a small boat shall be mobilised for carrying a single frequency echo sounder of 200 kHz onboard. The soundings shall be carried out as per the specification. The bathymetric survey shall be carried out at 100m line spacing parallel to shore up to a water depth of 10m and at 200m line spacing perpendicular to shore up to a water depth of 10m (all levels mentioned in this report are with respect to Chart Datum).

The required accuracy of the depth measurement is 2% of the measured depth with resolution 0.1-m. The position information should be stored using DGPS, which shall provide accuracy better than +/- 1m. Necessary tidal correction to be applied for bathymetric measurements carried out at site. The survey tracks of the boat should be worked out using hydrographic software HYPACK MAX and the map shall be presented in UTM & Geographic co-ordinates.

###### **1.2.2 Shallow seismic survey**

Shallow seismic survey shall be carried out using acoustic sub-bottom profiler at a spacing of 200m upto a water depth of 10 m. The operational depth of the acoustic sub bottom profiler should be suitable for surveying in deep/shallow water. The seismic survey record shall be interpreted for layers of the sub bottom geologic features for each transect described and presented graphically.

###### **1.2.3 Side scan sonar**

Side Scan Sonar shall be used for the sea floor mapping at a spacing of 200m upto a water depth of 10m. The data obtained from sea floor mapping shall be interpreted for sea floor characteristics and presented as seafloor map along with the side scan sonar record in the final report. A 3 Dimensional diagram

detailing the surface material of the seafloor in the surveyed area shall be prepared.

## 2. SCHEDULE OF FEES - I

**SPECIFICATION NO. oe/Car Nicobar/2017/2**

### **Name of the Work:**

Hydrographical survey comprising of near shore bathymetry up to 10m water depth for stretch of 4k.m along the coast and Geophysical survey for a 2 Sqkm area along the proposed area.

<b>Sl. No.</b>	<b>Description</b>	<b>% Total Consultancy</b>
1	a. Mobilization advance (after mobilization of equipment and comment of work)	25%
	b. On submission of Draft report	50%
	c. On submission of Final Reports	25%

SIGNATURE :  
NAME :  
DESIGNATION :  
DATE :  
PLACE :  
SEAL :



  
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**3. ANNEXURE-I**

**UNDERTAKING TOWARDS JURISDICTION FOR  
LEGAL PROCEEDINGS  
( NON JUDICIAL STAMP PAPER VALUE RS.80/-)**

This undertaking executed at.....  
on this..... (Date)..... (Month) Two thousand and .....  
by  
M/s .....Registered under Companies  
Act, 1956 having its registered office at  
..... hereinafter called the  
contractor (which expression shall where the context so admits mean and  
include its successors in office and in favour of Tamil Nadu Generation and  
Distribution corporation Limited, a company incorporated under the company  
Act 1956, having its registered office at No. 144, (Old NO. 800), Anna Salai,  
NPKRR Maaligai, Chennai-600 002 herein after called the purchaser (which  
expression shall where the context so admits means and includes its  
successors if Office and assigns).

WHEREAS a contract for the supply of .....has been  
awarded in favour of the contractor under the Purchase order  
No.....dated.....

AND WHEREAS in accordance with the terms of the above Purchase order,  
the contractor has to furnish un undertaking to the effect that no suit or any  
proceedings in regard to any matter arising in any respect under this contract  
shall be instituted in any matter in any respect under this contract shall be  
instituted in any court other than in the High court, Madras of District court at  
..... or Sub-court at .....or at the District Munsiff court at  
..... as the case may be.

IN CONSIDERATION of the Board having agreed to accept the undertaking the  
contractor hereby undertakes that no suit or any proceedings in regard to any  
matter arising in respect of this contract shall be instituted in any court, save in  
the High court , Madras or District court at.....or sub court at  
..... Or at the District Munsiff court at .....as the  
case may be it is agreed that no other court shall have jurisdiction to entertain  
any suit or proceedings, even though , part of the cause of action might arise  
within their jurisdiction. In case any part of the cause of action might arise  
within the jurisdiction of any other Courts in Tamil Nadu and rest within the  
jurisdiction of Courts outside the State of Tamil Nadu , then it is agreed to  
between the parties that such suits on proceedings shall be instituted in a court



