

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 under for the following work being executed by IIT Madras:-

1)	Description:	Geotechnical Investigations for the ship lift facility at ICG campus, Ratnagiri. (Detailed scope of work as mentioned under Section-III)
2)	Specification No.	
3)	Earnest Money Deposit:	75,000/-
4)	Last date for Submission of Bid:	23.08.2018 at 1500 hrs.
5)	Date & Place of Opening of Tender (Techno commercial bid): Hrs. IST on 26.12.2018 Rm.306, Third Floor, Department of Ocean Engineering, IIT Madras, Chennai 600036, Tamil Nadu If the due date happens to be a holiday, the tender will be received & opened on the next working day.
6)	Validity of offer:	60 days from the date of opening.
7)	Method of submission of tender:	Single cover system
8)	Clarification to be obtained from:	Prof. R.Sundaravadivelu The Project Coordinator Department of Ocean Engineering IIT Madras, Chennai - 600 036 Tamil Nadu Phone no.: 044- 2257 4816 Email: rsun@iitm.ac.in
9)	Cost of Tender specification	Nil
10)	Tender Inviting Authority:	The Dean, IC & SR, IIT Madras, Chennai – 600 036, Tamil Nadu Telephone No:(91) (44) 2257 8061 Fax No: (91) (44) 2257 0545

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SECTION -I
INSTRUCTION TO BIDDERS

1.1 General:

Separate sealed competitive bid under "Single cover system" is invited for the following works.
Geotechnical Investigations for the ship lift facility at ICG campus, Ratnagiri.

1.2 Scope of work:

The scope of the study shall include:

1.1.1 Soil Investigation.

Soil investigation may be taken up immediately after the issue of Work order. The primary tasks to be accomplished include:

- (i) **Mobilization:** Transport of plant, personnel etc. To site at the time of start of work and their withdrawal on completion including cost of transportation (common for all bore holes). Mobilizing of required equipment, plant, machinery, tools and transporting the same to site location including all labour, material etc., complete
- (ii) **Setting out Boring Equipment's:** Setting out boring location with reference to nearby benchmark, taking bed level and setting up the boring/drilling rig at each boring location for the depth up to (-) 20.00m C.D for deep bore holes and (-) 10.00m for shallow bore holes etc. including Shifting of plants from one point to another and staging of equipment's in both land and marine environment and shifting to different bore hole points after completion of work.
- (iii) **Boring of all Soil strata :-**
 - (a) **Land Shallow Bore Hole (LSBH):-** Boring minimum of 150mm nominal diameter boreholes through all types of soil including rock using shell and auger or other approved equipment below the existing ground level up to (-) 10.00m (or) up to 3 m below the hard rock. The boring shall including Conducting Standard Penetration Test (SPT) at a regular depth interval of 1.5m, Collection of Split Spoon samples or

Disturbed Soil Samples, conducting relevant laboratory test results and submitting detailed report containing the field and laboratory test results all as per relevant specifications and as directed, including removing and taking away the equipment and clearing the site including all materials, labor, tools, equipment, transport, fuel etc., complete.

(b) **Land Deep Bore Hole (LDBH):-** Boring minimum of 150mm nominal diameter boreholes through all types of soil including rock using shell and auger or other approved equipment below the existing ground level up to (-) 20.00m (or) up to 3 m below the hard rock. The boring shall including Conducting Standard Penetration Test (SPT) at a regular depth interval of 1.5m, Collection of Split Spoon samples or Disturbed Soil Samples, conducting relevant laboratory test results and submitting detailed report containing the field and laboratory test results all as per relevant specifications and as directed, including removing and taking away the equipment and clearing the site including all materials, labor, tools, equipment, transport, fuel etc., complete.

(c) **Marine Deep Bore Hole (MDBH):-** Boring minimum of 150mm nominal diameter boreholes through all types of soil including rock using shell and auger or other approved equipment below the existing ground level up to (-) 20.00m (or) up to 3 m below the hard rock. The boring shall including Conducting Standard Penetration Test (SPT) at a regular depth interval of 1.5m, Collection of Split Spoon samples or Disturbed Soil Samples, conducting relevant laboratory test results and submitting detailed report containing the field and laboratory test results all as per relevant specifications and as directed, including removing and taking away the equipment and clearing the site including all materials, labor, tools, equipment, transport, fuel etc., complete.

(iv) **Laboratory Test :**

- (a) To carry out test for Atterberg limits - Liquid Limit & Plastic Limit as per IS-2720 - Part-V
- (b) To carry out test for Natural moisture content in the Laboratory as per IS 2720 -Part-II.
- (c) To carry out test Wet and dry density at the Laboratory as per IS 2720 -Part-II
- (d) To carry out test Specific gravity, void ratio test as per IS 2720, Part-III.
- (e) To carry out Sieve Analysis as per IS 2720-Part-IV.
- (f) Hydrometer Analysis as per IS 2720 Part-IV.
- (g) Tests on rock samples for density, porosity, water absorption, specific gravity as per IS 1124 (1974).
- (h) Point Load test on rock sample IS 8764
- (i) Crushing strength on rock sample IS IS-9143-1979.
- (j) Unconfined compression tests as per IS 2720- Part-X on selected undisturbed samples in the Laboratory.
- (k) Soil (Sulphates, Chlorides, PH, Carbonate and organic matter content).
- (l) Water (Sulphates, chloride PH, Carbonate, organic matter content and total salinity) as per IS IS-10500

1.1.2 Technical Specifications reference points.

1.1.2.1 Bench Mark

The levels shall be considered basis of GTS bench marks (Survey of India Bench Mark) in the vicinity. If not available a temporary bench mark shall be transferred to the site from the permanent benchmark. All levels shall be related to IMSL. New Bench mark shall be established either on existing abutments, jetties or other monoliths which shall meet the stability requirement for bench marks specified by Survey of India. Alternatively new bench mark of suitable type may be built to survey of India standards. Value of bench marks shall be established to accuracy better than +10 millimeters.

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

1.2.1 Specification No : --/-----/2018/4.

1.2.2 Cost of Tender Specification : Waived

1.3 EARNEST MONEY DEPOSIT (EMD) : 75,000/-

1.4 Schedules for Receipt and Opening of Bid:

a. Last date and time for receipt of bids

~~16.00 Hrs. IST on 26.12.2017~~ ²⁰¹⁸ **23.08.2018 at 15.00 hrs**

b. Date and time for opening of bids

~~16.15 Hrs. IST on 27.12.2017~~ ²⁰¹⁸

24.08.2018 at 10.00 hrs

1.5 Submission of Tender:

Tender should be furnished in sealed cover, super-scribed as

Geotechnical Investigations for the ship lift facility at ICG campus, Ratnagiri.

The offer should be addressed to:

Prof. R.Sundaravadivelu

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.306, 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.306, 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, Tamil Nadu

Telephone No: (91) (44) 2257 8061

Fax No : (91) (44) 2257 0545

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 project site is ICG campus Ratnagiri, India.

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 PRICE

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 TENDER

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).

2.6 PAYMENT TERMS:-

Payment will be made as per the following methods

Sl.No	Description	% Total Consultancy charges
1	Advance payment	30%
2	On submission and acceptance of draft report	50%
3	Final report duly accepted by Administrative Authority	20%

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: 3 weeks from the date of award of work. Submission of Final Report: After Two (2) Weeks from the date of draft report submission.

2.8 Qualifying Criteria:

One similar nature of work executed in the last financial year atleast to the value of Rs. 15.00 Lakhs.

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 TAXES

The price quoted shall be firm and shall be inclusive of all statutory levies and taxes including GST. 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.100/- 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.

- Specific acceptance of Board's terms of payment.
- Board's terms of Liquidated damages for delay in completion of work.
- 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.

2.14 IC & SR BOARD RESERVES THE RIGHT

- Not to accept the lowest or any tender.
- To reject any or all the tenders without assigning any reasons thereof.
- 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.
- 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

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

SECTION - III

TECHNICAL SPECIFICATION

SCOPE OF SERVICE

2. SCHEDULE OF FEES - I

3.2 SPECIFICATION NO. OE/Paradip Port/2017/4

Name of the Work: **“Geophysical investigations for the Paradip Port basin and approach Channel”.**

Sl.No	Description	% Total Consultancy charges
1	Advance payment	30%
2	On submission and acceptance of draft report	50%
3	Final report duly accepted by Administrative Authority	20%

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

3. ANNEXURE-I

**3.3 UNDERTAKING TOWARDS JURISDICTION FOR LEGAL PROCEEDINGS
(NON JUDICIAL STAMP PAPER VALUE RS.100/-)**

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 Indian Institute of Technology Madras, Chennai- 36. hereinafter 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 ofhas 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 an 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 or District court at or Sub-court ator 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 atas 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 or proceedings shall be instituted in a court within the State of Tamil Nadu and no other Court outside the State of Tamil Nadu shall have jurisdiction.

IN WITNESS WHERE OF Thiru.....of M/s
..... hereby put his hand and seal for due observance of the undertaking in the
presence of the following witnesses.