

**CENTRE FOR INDUSTRIAL CONSULTANCY AND SPONSORED RESEARCH (IC&SR)
IIT MADRAS, CHENNAI 600 036**

BID INVITATION

For and on behalf of IC & SR, IIT Madras sealed tenders are invited in **TWO COVER SYSTEM** (TECHNICAL BID AND FINANCIAL BID) for the work briefly described hereunder:

1)	Description of Work	Supply of Boats for the Deployment, Retrieval, Data Collections, Measurements, Surveying, Sampling, Measurement, Surveillance and related works in the States of Tamil Nadu, Kerala and UT of Puducherry.
2)	Specification No.	DOE/2019/001/CMIS/VSun DATED 16th October 2019
3)	Earnest Money Deposit (EMD)	Rs.1,00,000/- (Rs. One lakh only) in the form of DD issued by any nationalized /commercial bank drawn in favour of "The Registrar, IIT Madras", Chennai. The DD shall be enclosed in the Technical Bid failing the tender will be summarily rejected. If the contractor/Tenderer withdraw their offer in the course of tendering process after submission and /or fails to undertake the above work after issuance of the work order or letter of acceptance, the EMD furnished shall be forfeited without any further correspondence or reference to the contractors /Tenderers.
4)	Last date for submission of bids	15:30 hours. IST On 15.11.2019
5)	Method of submission of Tender	The tenders shall be submitted under two cover system (i.e. Technical Bid and Financial Bid) Technical Bid: Technical bid shall contain only the technical details/specifications, balance sheets along with the copies of the work orders/work completion certificate for the past three years in connection with the boats supplied to the Central and/or State Governments, Departments, Institutes, Ports, and/or other Research and Development related works to the National Authorities/Services and others. Financial Bid: The Financial bid shall contain item wise price for each item. The rates quoted shall cover all commercial terms including cost of fuel, consumables, labour charges, transportation, payment terms etc. and shall be exclusive of Taxes and Duties, GST and others which will be paid/reimbursed by IIT Madras as applicable. However the tenderers shall indicate applicable taxes and their rates at the time of submission of bids. The technical and financial bids shall be placed in separate covers and superscripted as "Technical Bid" or "Financial Bid" as the case may be, and sealed. Both the sealed covers shall be placed in an outer cover and superscripted with the name of the work, tender number, etc. The vendors who can supply and operate various size of Boats on Hire alone need to respond to this tender subject to their satisfying the qualification requirements

6)	Date & Place of Opening of Tender (Technical bid)	<p>The offer/bids will be opened by a duly constituted tender committee at 16:15 hours IST on 15.11.2019, Conference Room, First Floor, DOE, IIT Madras, Chennai. If the due date happens to be a holiday, the received tender will be opened on the next working day at the time specified above</p> <p>On the day of opening only the main cover and the Technical Bids will be opened in the presence of the tenderers who wish to participate and the financial bids of all the bidders will be kept in a cover unopened and sealed.</p>
7)	Validity of offer	90 days from the date of opening
8)	Clarification to be obtained from	Prof. V.Sundar / Dr. J. Sriganesh (+91-9445507962) vsundar@iitm.ac.in / sriganesh@iitm.ac.in
9)	Cost associated with the tendering process	The bidders shall meet all the expenses and IIT Madras shall not be responsible for any costs associated in the tendering process.
10)	Tender Inviting Authority	The Senior Manager, Project Purchase, Second Floor , IC &SR Building, Indian Institute of Technology Madras, Chennai 600 036
11)	Authority to accept the bid	IC & SR, IIT Madras reserves the full right to accept or reject any tender at any stage without assigning any reasons.
12)	Evaluation of offer and opening of financial bids	<p>The Technical bids opened shall be evaluated by a duly constituted committee or its sub-committee to ascertain the suitability of the bid in accordance with the specification and other requirements of the tender.</p> <p>The Financial bids of technically qualified bidders will be opened under intimation to the qualified bidders only. The Financial bids of other bidders shall be returned unopened.</p>
13)	Date & Place for Pre-bid Meeting	At 16:00 hours IST on 05.11.2019, Conference Room, First Floor, DOE, IIT Madras, Chennai.

SECTION – I
INSTRUCTION TO BIDDERS

1.1. GENERAL

1.1.1 Specification No. DOE/2019/001/CMIS/VSUN

1.1.2 For and on behalf of the Centre for Industrial Consultancy and Sponsored Research (IC&SR), (CMIS) IIT Madras of sealed competitive bids under Two Cover system are invited as per the details furnished hereunder:

1.2 SCOPE OF WORK

1.2.1 The near-shore and offshore in-situ measurements at three south Indian coastal states namely, Tamil Nadu, Kerala and U.T. of Puducherry for the Implementation of Coastal Management Information System (CMIS) by Central Water Commission (CWC), Ministry of Water Resources (MoWR), Government of India is in progress through Department of Ocean Engineering (DOE) of IIT Madras from October 2016 onwards. The major field measurement involves along the South West (SW) & South East (SE) coast of India covering the complete monsoon and non-monsoon hydrodynamic measurements for the selected sites at each state. The measurements of tide, wave, current, bathymetry, Sea Bed Sediments and Seawater samplings are all can be carried out/achieved through the well experienced safe operations of the boats within the stipulated period. All these field data are mandatory for the numerical modellings as an input for the understandings and predictions of shoreline behaviors, extreme severe events (cyclone, tsunami, etc) behavior of shores and also for its protection and for better management. This CMIS project was successfully executed since its inception and further, it's now extended for the execution by DOE, IITM for One More Year (2019 to 2020).

1.3 EARNEST MONEY DEPOSIT (EMD)

Rs.1,00,000/- (Rs. One lakh only) in the form of DD issued by any nationalized /commercial bank drawn in favour of "The Registrar, IIT Madras", Chennai. The DD shall be enclosed in the **Technical Bid** failing the tender will be summarily rejected.

If the contractor/Tenderer withdraws their offer in the course of Tender processing after its submission and /or fails to undertake the above work after issuance of the work order or letter of acceptance, the EMD furnished shall be forfeited without any further reference to the contractor/Tenderer.

No interest shall be paid on the EMD. The EMD deposited by the successful bidder shall be returned after the receipt and acceptance of Performance security and issue of the work order/purchase order. The EMD submitted by all other unsuccessful tenderers shall be returned within 10 days upon finalization of the award of contract and on receipt of a request along with the advanced stamped receipt.

1.4 SUBMISSION OF TENDER:

1.4.1 Tender shall be submitted in two cover system (i.e.) “Technical bid” and “Financial Bid” and both of these bids shall be placed in an outer cover and superscripted “Supply of Boats for the Deployment, Retrieval, Data Collections, Measurements, Surveying, Sampling, Measurement, Surveillance and related works in the States of Tamil Nadu, Kerala and UT of Puducherry”.

1.4.1.1 **Cover-1 Technical Bid:** Technical bid shall contain only the technical details/specifications, balance sheets along with the copies of the work orders/work completion certificate for the past three years in connection with the boats supplied to the Central and/or State Governments, Departments, Institutes, Ports, and/or other

Research and Development related works to the National Authorities/Services and others. The supporting document shall be either original or notarized submitted/attached.

Catalogue of the quoted boat specification / model shall be submitted along with the Technical bid.

No prices should ever be included in the Technical bid.

1.4.1.2 Cover-2: Financial Bid: The Financial bid shall contain item wise price for each item. The rates quoted shall cover all commercials terms including cost of fuel per hour required and running, consumables, labour charges, transportation, payment terms etc. and shall be exclusive of Taxes, Duties and GST which will be paid/reimbursed by IIT Madras as applicable. However the tenderers shall indicate applicable taxes, GST and their rates at the time of submission of bids.

1.4.2 The technical and financial bid shall be placed in separate covers and superscribed as “Technical Bid” and “Financial Bid” as the case may be, along with the name of work and sealed. Both the sealed covers shall be put in an outer cover and superscribed with the name of the work with tender number etc.

1.4.3 The Main cover containing both Technical bid and Financial bid shall be delivered or sent to the below mentioned address within the scheduled date and time specified for receipt of the tenders:

The Senior Manager, Project Purchase,
2nd floor IC & SR, building
Indian Institute of Technology Madras,
Chennai 600 036

1.4.4 The bidders have the option of sending the bid by Registered Post, Speed Post, Courier or handover the bid in person. CMIS shall not be responsible for any postal or delivery delays. Bids submitted by Telex/Fax/Telegram/E-mail etc. will not be accepted.

1.4.5 The vendors who can supply and operate various sizes of Boat on Hire alone need to respond to this tender subject to their satisfying the qualification requirements.

1.5 SCHEDULE FOR RECEIPT AND OPENING OF BID:

- a) Last date and time for receipt of both the bids : 15.11.2019 at 15:30 hours
- b) Date and time for opening of technical bid : 15.11.2019 at 16:15 hours.
- c) Date and Time for Pre-bid Meeting : 05.11.2019 at 16:00 hours.

If the due date for tender opening happens to be a holiday, the tenders will be opened at the time mentioned earlier on the next working day.

1.6 OPENING OF TENDER:

The main cover and the cover containing the technical bid alone shall be opened at the Conference Room, First Floor, DOE, IIT Madras, Chennai on the due date and time prescribed in the presence of such of those tenderers who may desire to participate in the tender opening.

1.6.1 On the day of opening of the tender, the financial bids of all the tenderers who submitted their bid, shall be placed in a separate cover and sealed in the presence of Tenderers who participate in the Tender opening. The financial bid of the Tenderers whose Technical offers have been accepted, alone will be opened at a later date under intimation to the successful qualified bidders and also after hosting in the website. The financial bids of the non-qualified bidders in Technical evaluation shall be returned unopened.

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

1.6.3 If the tenderer has any doubt about the meaning of any portion of this specification, they may address the Tender inviting authority so as to reach the concerned authority at least one week prior to opening of this tender. No clarifications, beyond the stipulated date (i.e. after Technical Bid Opening date) will be entertained.

1.7 Tender Inviting Authority

The Senior Manager, Project Purchase,
IC & SR Building, Second Floor,
Indian Institute of Technology Madras (IITM),
Chennai. 600 036

1.7.1 Late Offer

The offers received after the due date and time will not be considered. The institute shall not be responsible for the late receipt of tender owing to postal/courier or delays and/or lost during the transit.

1.7.2 Do not quote the optional items or additional items unless otherwise stipulated in the tender documents /specifications.

1.7.3 All amendments, time extension, clarifications etc., will be uploaded on the website only and shall neither be published in newspapers nor individual communications sent. Bidders should regularly visit the above website to keep themselves updated. No extension in the bid due date/time shall be considered on account of delay in receipt of any document by post.

1.7.4 Acknowledgements: The tenderers are hereby acknowledges that they have been gone through all the conditions mentioned in this document and also agree to abide by all such conditions.

SECTION II

COMMERCIAL AND TECHNICAL CONDITIONS

2.1 GENERAL

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

2.2 LOCATION

South Indian Coastal States of Tamil Nadu, Kerala and the Union Territory of Puducherry

2.3 COMPLETENESS OF TENDER

The tender shall be complete in all aspects. The Bidders shall furnish all relevant details called for in this document and also attach supporting documents wherever required either in original or duly notarized for consideration by the tender inviting authority or their authorized representatives. The tenders bids not containing the complete details as required are liable for rejection.

2.4 SUBMISSION OF TENDER

Tenderers are advised to post their tenders bids well in advance so as to 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.

2.5 PRICE

Tenderer shall quote FIRM Price only. For pricing structure kindly see the Annexure-I. Unit rates for individual items and Taxes should be quoted separately. Total price of the work shall also be filled in at the appropriate place.

2.6 VALIDITY OF TENDER

The tenders should be valid for a period of 90 days (ninety days) from the date of opening of tender. In case any bidder quotes a lower validity period than that specified, their offer shall be liable for rejection. In exceptional circumstances, the purchaser may solicit the bidder's consent for an extension of the period of validity. The request and response thereto shall be made in writing (including mail).

2.7 EMPLOYER 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.

2.8 EVALUATION AND COMPARISON OF TENDER OFFERS

- a) The evaluation of the Tender will be done as per IIT Madras guidelines in vogue.
- 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.

2.9 PERFORMANCE BANK GUARANTEE:

The successful bidder shall submit performance Bank guarantee for an amount to Rs.1,00,000/- (One Lakhs). The performance bank guarantee shall be furnished as per the format attached.

In case the successful bidder wishes to submit Bank Guarantee (BG) towards performance obligations viz. Performance Bank Guarantee, the BG should be routed through Beneficiary bank to the end user bank. The Bank Guarantee should remain valid for a period of sixty (60) days beyond the date of completion of all contractual obligations of the contractor.

ONLY AFTER SUBMISSION OF PERFORMANCE SECURITY, THE CONTRACT AGREEMENT SHALL BE EXECUTED AND ANY PAYMENT UNDER THIS AGREEMENT SHALL BE RELEASED.

2.10 PAYMENT TERMS

- a) The Contractor can submit the bills for payment every month for the work they have completed during the preceding months.
- b) The bills will be passed for payment subject to the compliance of the bill and payment shall be released normally within 15 days of submission of bills.

2.10.1 Payment will be made either in the form of NEFT/RTGS transfer or by cheque on any of the commercial banks or their branches in India as may be decided by CMIS from time to time. If the contractor requests for Payment by DD, Exchange commission for issue of bank draft shall be to the account of the contractor.

2.10.2 Offers agreeing to the above terms of payment alone will be preferred. In the event of any deviation from the specified payment terms, the Authority/CMIS may reject the offers.

2.11 SPECIAL CONDITIONS:

2.11.1 PRE QUALIFICATION CRITERIA:

The prospective bidder should have carried out similar work for duration of minimum 1 year during the past three (3) years. Work orders pertaining to the same shall be provided as proof and enclosed in the technical bid. The prospective bidder should have any one boat (with valid registration in any one state, Tamil Nadu, Kerala & Puducherry) on his own. Attach the copy of the boat registration certificate, sea sailing/going license.

NOTE:

- a. Relevant work orders/agreement along with the work completion certificate issued by the competent authorities shall be enclosed either in original or notarized as proof of evidence of experience.
- b. Any two works of the followings five tasks would have been successfully carried out and completed by the bidder and the proof must be attached.
 - 1. Deployment of any Oceanographic Equipment upto-25m water depth
 - 2. Retrieval of Oceanographic Equipment from -25m water depth
 - 3. Samplings (Seabed Sediments & Seawater Samplings upto-25m water depth)
 - 4. Surveying (by Fixing the Single-Beam and/or Multi-Beam Echo-Sounder for bathymetry survey)

5.Surveillance (Watch Keepings for Safety of Seabed fixed and/or boat fixed equipment for continuous 48hrs)

2.11.2 It is also mandatory that the bidder should have supplied boats to any one port related works.

2.11.3 The required Boat Type (Service) by the CMIS, DOE, IITM shall be mobilized and commissioned by the successful bidder within three (3) days from the date of receipt of the comments as per CMIS, DOE, IITM instructions by mail/SMS. The contractor shall assist CMIS to fix the survey equipment and others in the boat and provide necessary watch and ward during the transportation and if necessary during the nights at their contractor cost for the safety of the CMIS, DOE, IITM equipment.

2.12 FORCE MAJEURE

Neither the Contractor nor the CMIS, DOE, IITM 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 and cyclones 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 CMIS, DOE, IITM shall be entitled to decide the further course of action including revisions in the terms of Contract, if any.

2.12.1 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 with authorized evidence/proof in writing.

2.12.2 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.

2.13 TAXES

The price quoted shall be firm and **shall be inclusive of fuel, skilled/unskilled manpower for maneuvering the Boats and also excluding other consumable Taxes and/or GST. GST is as applicable and shall be indicated which shall be either paid by CMIS, DOE, IITM directly or reimbursed at actual to the successful bidder/Contractor. Necessary income tax will be deducted at source** on each bill as per the regulations in force and TDS will be issued. If the Boat supplier is exempted from payment of income tax, the documentary evidence for the same has to be furnished.

2.14 LIQUIDATED DAMAGES:-

If the contractor fails to supply the suitable boats within the specified time, or fail to replace the repaired / damaged boats, within the period specified by the CMIS, DOE, IITM and / or the contractor deserted the work or delayed the work for reasons solely attributable to them, the CMIS, DOE, IITM shall levy the liquidated damage (not by way of penalty) at the rate of 0.5% of the total contract value per week or part thereof subject to maximum of 10% of overall contract value. If the work has been abandoned or quality of the boat supplied is not upto the satisfaction of the CMIS, DOE, IITM, the CMIS, DOE, IITM shall also reserve its rights to terminate the contract after giving 10 days' notice, in addition of levying the Liquidated damage and forfeiting the performance Bank Guarantee. The decision of the CMIS in this regard is final and binding on the contractor.

2.15 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. This should be given after issuing the work order – This is applicable for selected L1 bidder.

2.16 ARBITRATION

Arbitration is not applicable to this contract.

2.17 COMPLETION OF PROJECT

Time duration of completion of project is twelve (12) calendar months from the date of acceptance of work order. However, CMIS, DOE, IITM reserves its rights to vary the contract period for six months (viz ± 6 months) under the same terms and conditions of the agreement without any entitlement of the revision of the rates. All the payments process of short term and or long term completions will be made only after getting the confirmation from the boat representative and CMIS,DOE, IITM representative on the operations & executions as actuals. The final completion of project command to the Contractor will be given only by the CMIS, DOE, IITM office representative by letter and or mail.

2.18 ACKNOWLEDGEMENT

The tenderers is deemed to have been accepted all the terms and conditions of this tender including.

1. Specific acceptance of terms of payment.
2. 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 the CMIS mentioned in this tender.

2.19 LANGUAGE OF TENDER

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

2.20 DEVIATIONS IN TENDER

No deviation to the tender conditions shall be entertained.



Section – III

Technical Specification

Annexure

Supply of Boats for the Deployment, Retrieval, Data Collections, Measurements, Surveying, Sampling, Measurement, Surveillance and related works in the States of Tamil Nadu, Kerala and UT of Puducherry for DOE, IIT Madras

Bid No.: DOE/2019/001/CMIS/VSUN

SPECIFICATIONS

Bids are invited for providing the following services on daily rate basis for CMIS program of DOE at IIT Madras. Successful bidder will be engaged to provide the boat services and will be known as “CONTRACTOR”. The near shore and offshore field measurement program for implementation of CMIS for Central Water Commission (CWC), Ministry of Water Resources (MoWR), Govt, of India by DOE of IIT Madras involves field measurement campaigns along South West (SW) & South East (SE) coast of India. This program requires different types of services and boats. The boats will be operated within -25m depth contours (approximately 5km to 10km distance perpendicular to the normal shoreline). The services involve the following items, but not exhaustive.

Table 1. List of Services and Boats

Boat (Activity) Type	Typical Field Activities (Sea, Marine, Ocean, Water)
TYPE -1	Boat services for the Deployment and Retrieval of equipment within 0m to -25m water depth including transportation & Manpower
TYPE -2	Provide boat services for Geo-Physical Investigations (a) Bathymetry Survey from 0m to -25m water depths and (b) Seabed Sediments and Seawater Sampling from 0 to -25m water depths.
TYPE -3	Surveillance of Deployed and/or Installed Equipment at any locations from 0m to -25m water depth and Current Meter.
TYPE -4	Boat can operate from Shore to Survey Boat, Equipment Installed Boat Deployment Location, CTD operations, Survey, etc...

Special Conditions:

- (i) Oceanographic / Survey equipment that need to be deployed will be supplied by IIT Madras.
- (ii) For **TYPE-1** activity, the bidder shall use boats of suitable size with capability to operate up to -25m water depth. The boat shall have a mechanical motorized winch with capacity to lifting and lowering minimum 1000kg weight within 0m to -25m water depths. Boat should have the suitable navigational, safety and communication equipment including sounding equipment with display for the purpose of understanding sailing ground depths. The boats shall be motorized. Seagoing license or other approval required for the said use is the responsibility of the Contractor.
- (iii) For **TYPE-2** activity, the contractor shall supply boats of suitable size with capability to operate from shore to -25m water depth. Boat equipped with working suitable navigational, safety and communication equipment including sounding equipment with display for the purpose of understanding sailing ground depths &also mechanical motorized winch which can operate from 0m to -25m water depths. The boats shall be motorized. Seagoing license or other approval required for the said use is the responsibility of the Contractor.
- (iv) For **TYPE-3** activity, it is the responsibility of the Contractor to perform Surveillances/Watch Keepings of the deployed and/or fixed equipment with minimum one boat & manpower along with the safety measures. The boat shall have capability to operate up to -25m water depth. The boat shall be self-motorized or use outboard motor. Seagoing license or other approval required for the said use is the responsibility of the Contractor.
- (v) For **TYPE-4** activity, it is the responsibility of the Contractor to perform Surveillances/Watch Keepings, beach landing, transportation of the equipment from the shore to the survey vessels, manpower transportation to the survey vessels, movements, supply of food, groceries to the Type 3 boats, etc along with the safety measures is the responsibility of the Contractor. The boat shall have capability to operate up to -25m water depth. The boat shall be self-motorized or use outboard motor. Seagoing license or other approval required for the said use is the responsibility of the Contractor.
- (vi) The safety of the CMIS, DOE, IITM equipment of seabed mounted along with the surface markings, and equipment fixed within the boat like echo-sounder, DGPS, MRU, surveying, etc under Surveillances is the responsibility of the Boat contractor.

In a case of any loss of equipment it is the responsibility of the boat contractor. Further, intimation to the nearest coastal village, local police, coastal communities, search operations and other relevant necessary retrievals, search and findings operations are the sole responsibility of the Boat Contractor. IITM will provide assist as and when required.

- (vii) All insurance coverage for the boat and its manpower / services resources are the responsibilities of the contractor.
- (viii) Availability / engagement of suitable support crafts one or two to assist the above services is the responsibility of the boat bidder / contractor.
- (ix) Contractor need not engage minimum special manpower like, skipper, driver, fireman, boat operator, crew, captain, helmsman, etc for the purpose of providing the services under all the activities with his own cost. IIT Madras will provide the special, technical manpower for the operations of the supplied equipment. However, the contractor shall provide required minimum manpower to carry out the various activities in sea/marine/ocean/river and shore, ports, etc.

For **TYPE - 1** activities, the skilled manpower for the deployment and retrieval is the responsibility of the contractor. Including mooring, transportation of the equipment to the deployment site including manpower.

For **TYPE - 2** activities, the skilled manpower for the bathymetry surveying, boat running in the straight survey lines as required is the responsibility of the boat contractor. Mobilization and De-mobilization charges will be paid from the shortest and nearest location as decided by the CMIS, DOE, IITM will be paid. The Seabed and Seawater samplings at different depths for the operating of Grab Samplers and Niskin Water Samplers by winch are the responsibility of the Boat Crews as directed by the CMIS, DOE, IITM.

For **TYPE - 3** and **TYPE - 4** boats, the entire responsibility is with the Boat Contractor as required by the CMIS, DOE, IITM as and when required.

The contractor is required to mobilize the supply of the specific type of boats and carryout the activity successfully as and when required for the operations of oceanographic measurements/data collections either short and or longer period. A detailed tentative program will be handed over to the successful contractor by DOE, IITM minimum three (3) to four (4) days in advance. The approximate number of days of operations in one year the services are required to be provided at each site will differ and may change. The bids under this tender should be valid for a minimum period of 24 months from the day of award of the work. No Changes accept in the financial bids till the completion of the CMIS, DOE, IITM.

The bidders shall comply with the terms and conditions given in Annexure-I & II. Bids not in compliance with the terms and conditions will not be considered.

Annexure - I

SPECIFICATIONS

BID OF SCHEDULE

S.No	Items / Nature of Work	Unit	Rate (Rs) excluding service tax
1	Providing the services on Long-term basis (more than 30 days). Type-1 Service (10 hrs running) Type-2 Service (10 hrs running) Type-3 Service (10 hrs running) Type-4 Service (5 hrs running) SUBTOTAL	Per day Per day Per day Per day	
2	Providing the services on Short-term basis (less than 30 days). Type-1 Service (10 hrs running) Type-2 Service(10 hrs running) Type-3 Service(10 hrs running) Type-4 Service(5 hrs running) SUBTOTAL	Per day Per day Per day Per day	
3	Grand Total		

The work will be in three South Indian States (1.Tamil Nadu, 2. Kerala & 3. Pondicherry). In Tamil Nadu, the working coastal stretch will be near to Mahabalipuram including Chennai & Kanchipuram Districts. In Pondicherry, the working coastal stretch will be in and around Karaikal. In Kerala, the working coastal stretch will be in and around Pudu-Ponnani. Deployments, Retrieval, Surveying Samplings, Surveillances and others will be from the shore to the offshore. i.e Shallow Water (0m depth contour) to Deep Waters (-25m depth contour). Instruments deployed either in Single Mooring and “U” type mooring or both at minimum one (1) or two (2) different locations at different water depths. The type of mooring will be dictated by CMIS, DOE, IITM and will be prepared and executed by the Boat Contractor. All required materials (except tools) for deployment & retrieval will be procured and provided by CMIS, DOE, IITM upon suggestion from the Contractor, in advance. It is the responsibility of the contractor to identify, suggest and assist CMIS, DOE, IITM to purchase any additional necessary requirements accessories 48hrs in advance by letter/mail.

The oceanographic equipment available with DOE, IITM and will be provided to the Contractor at DOE, IITM. All mode of transportation of the equipment like, Air, Road, Rail, Boats, Cargo, and Courieretcis the responsibility of the Contractor.

The equipment that would be considered for deployment are

- (i) Directional Wave Recorder (DWR) with mounting frame& accessories.
- (ii) Acoustic Doppler Current Profiler (ADCP) with mounting frame & accessories
- (iii) Current Meter (CM) and CTD with accessories.
- (iv) Tide Gauge (TG)& mounting frame with accessories.
- (v) Echo Sounder (Dual Frequency Single Beam Echo Sounder and/or Multi Beam Echo Sounder) with all accessories.
- (vi) Grab Sampler with accessories for collection and storage.
- (vii) Niskin Water Sampler with accessories for collection and storage.

The instruments and allied items (spares, mooring items and other necessary requirements will be handed over to the contractor two days (48 hrs) in advance before the execution at site day with packed and proper CMIS, DOE, IITM gate pass. All transportations of equipment & its mandatory requirements from DOE, IITM to Project Site (Tamil Nadu, Puducherry& Kerala) by Road/ Rail/Air and Water (sea/ocean/river) are the responsibility of the Contractor. It is the responsibility of the contractor for the local transportation of the CMIS, DOE, IITM staff's (minimum 3 manpower) and equipment to reach the project site and for the deployments and similarly after retrieval all back to CMIS, DOE, IITM. Any damage during the transportation is the contractor responsibility. The damages needs to be replaced and or purchase the new same and or similar with their contractor cost. Similarly, from the day of decommissioning, within two days, the instrument and allied fixtures should reach CMIS, DOE Site office and or IITM or any other location as per the CMIS, DOE, IITM instructions by written mail/sms. No additional payments will be made on ideal days, through the equipment held in boat. No payments for the boat service during the transportation days of the equipment. No payment will be made on the IMD weather warning (Cyclone Warnings, Tsunami, Rough Weather, High Waves, etc) days, due to unforeseen situations. The written proof of the non-surveillance and withdraw from the watch keeping must be given before withdraw from the site, else contractor full responsibility, if any loss. Claim cannot accepts on non-surveillance days. IITM will not responsible for any loss of materials, instruments, man-power, life, net, crew, etc during these data collections or measurements periods. All safety, measures for the instruments, manpower, spares, etc is the contractor responsibility. Required Battery Power Supply for Bathymetry Surveying Operations, Generator fuel consumptions (10 hours running), Crane and/or winch operations for lifting& lowering the equipment, sampling operations and normal running fuel consumption and any others must be ensured well in advance and also it is the contractors responsibility.

Surveillance and Other Terms and Conditions:

- Starting from the Deployment date to the Retrieval Date of the equipment either by sea bed bottom mounted with Surface Float and or boat mounted/fixed.
- At each site the minimum boat required for continues monitoring (24x7 & Round the clock) for four (4) months or less or more vary from site to site.
- Bathymetry surveying minimum running hour may not be more than 10 hours.
- Sampling of Seabed Sediments maximum upto-25 m water depth.
- Seawater sampling of Surface, Middle and Bottom at each locations of maximum upto-25m water depths.
- Transportation by road and sea including the inter-state border clearances shall be the responsibility of the boat contractor/bidder only.
- Equipment state border clearance or the number of times of transport of instruments may not be more than 6 times (to & from) for the clearance in one year.

Commercial Terms:

- No Advance Payment will be made for boats service to the Contractor.
- The bidder can submit the bills for payment after every one (1) month for the completed works for the previous month.
- The bills will be passed for payment subject to the compliance of the bill.
- IITM will have the right to accept or reject any bids and also bills without assigning any reasons.
- IITM will have the right to cancel the tender in full or part or to change the quantity of items mentioned in the tender without assigning any reason.
- Bidder shall provide the unfilled copy of Commercial bid (Annexure-II) with the Signature in the technical bid without mentioning the amount.
- An EMD of Rs.1,00,000/- (Rupees One Lakhs Only) should be submitted with technical bid.
- A security deposit of Rs.1,00,000/- (Rupees One Lakhs Only) in the form of bank guarantee should be pledged for Eighteen (18) months duration from the day of issue of the work order. The Security Deposit will be en cashed proportionally, if the work is not carried out as per the project requirement.
- No changes accepted in the finance / per day rate as mentioned in the Annexure – I & Annexure – II till the completion of this Contract with the DOE, IITM.
- Deploying Number of boat and period will be varied for actual requirement at site and work order will be released accordingly on selected contractor.
- The rates for the individual items will however remain firm for the entire period of contract i.e for eighteen (18) months.
- All insurance for the crew, boat men, seamen, boat representative, boat equipment, accessories, spares, etc and all others are the responsibility of the Contractor. IITM is not responsible for any claims for any reasons.
- The rate for each item of the BOQ shall be inclusive of all and excluding GST.
- As the items of the BOQ (Annexure II) are independent and they cannot be considered in isolation, the award of contract will be made by the work in totality.(i.e Total value of all the work will be taken together for selecting the lowest bidder).
- The total value of contracts which can be awarded to the successful bidder/contractor in stages during the Twelve (12) Months or within the Eighteen (18) Month period shall be limited to Rs.1,60,00,000/- (Rupees One Crore and Sixty Lakhs Only) including GST.

Bid No.: OED/VSUN/002/2019

BID SCHEDULE – COMMERCIAL BID

(To be filled and provided in a separate sealed cover)

S. No	Items / Nature of Work	Unit	Rate (Rs)
1	Providing the services on Long-term basis (more than 30 days).		
	Type-1 Service (10 hrs running)	Per day	
	Type-2 Service(10 hrs running)	Per day	
	Type-3 Service(10 hrs running)	Per day	
	Type-4 Service(5 hrs running)	Per day	
	SUBTOTAL		
2	Providing the services on Short-term basis (less than 30 days).		
	Type-1 Service (10 hrs running)	Per day	
	Type-2 Service(10 hrs running)	Per day	
	Type-3 Service(10 hrs running)	Per day	
	Type-4Service(5 hrs running)	Per day	
	SUBTOTAL		
Grand Total			

I / We the bidders accept all the terms and conditions as per Bid No.: _____, including Special Conditions as per Table.1, Watch keepings and Other Terms and Conditions, Commercial Terms.

Date:**Authorized Signatory****Place:**

(for _____)

Company Seal

**FORMAT OF PERFORMANCE BANK GUARANTEE
PERFORMANCE BANK GUARANTEE**

To
Dear Sirs,

- 1.0 In consideration of the Indian Institute of Technology Madras, Chennai - 36 (hereinafter referred to as IITM. which expression shall unless repugnant to the context or meaning thereof be deemed to include their successor interest and assigns on the one part having awarded the deployment works in favour of having registered office at (hereinafter referred to as the CONTRACTOR), which expression shall unless repugnant to the context or meaning thereof include its successors, administrators, representatives and assigns, on the other part, by signing an agreement no. IITM/OED/.....on hereinafter referred as the AGREEMENT for the execution of the works on terms and conditions set out interalia in the AGREEMENT mentioned above as “CONTRACT” documents, valued at Rs. (Rupees) the same having been unequivocally accepted by the CONTRACTOR and the CONTRACTOR having agreed to provide a performance bank guarantee for the obligations/liabilities under the contract equivalent to Rs. ONE LAKH of the said value of the Contract to the PURCHASER NIOT amounting to Rs..... (Rupees) as Contract security in the form of a Bank Guarantee.
- 2.0. We hereinafter referred to as ‘The Bank’ which expression, shall unless repugnant to the context or meaning thereof, include its successors, administrators, representatives and assignees do hereby irrevocable guarantee and undertake to pay the PURCHASER IITM, MERELY STAMP PAPER WORTH OF Rs.100/- (NON-JUDICIAL) ON DEMAND WITHOUT any previous notice and **without any demur and without referring to any other source, any and all monies payable by the CONTRACTOR** by reason of any breach by the said CONTRACTOR of any of the terms and conditions of the said CONTRACTOR including non-execution of the “CONTRACT AGREEMENT” to the extent of ONE LAKH . Any such demand made by the Purchaser IITM on the Bank shall be conclusive and binding absolute and unequivocal not withstanding any difference between the IITM and the CONTRACTOR or any dispute or disputes raised/pending before any court, tribunal, Arbitrator or any other authority. The Bank agrees that the guarantee herein contained shall continue to be enforceable till this sum due to the IITM is fully paid and claims satisfied or till the IITM discharges this guarantee.
- 3.0 The Bank further irrevocably guarantees and undertakes to pay any and all monies due and payable by the CONTRACTOR by reasons of non-fulfillment of any of the following obligations.
 - 3.1. In the event of failure by the CONTRACTOR to satisfactory execute the works meeting the schedule and in complying with the provisions of the agreement.
- 4.0. The IITM shall have the fullest liberty without affecting in any way the liability of the Bond under this guarantee, from time to time, to extend the time of performance by the CONTRACTOR. The bank shall not be released form its liabilities under these presents by any exercise of IITM of the liberty with reference to the matter aforesaid.
- 5.0. The IITM shall have the fullest liberty, without affecting this guarantee to postpone from time to time the exercise of any powers vested in them or of any right which they might have against the CONTRACTOR and to exercise the same at any time in any manner, and either to enforce or to forbear to enforce any covenants contained or implied in the agreement between IITM and the CONTRACTOR or any other course of remedy or security available the IITM and the bank shall not be released of its obligations / liabilities under these presents by any exercise by IITM of his liberty with reference to the matters aforesaid or any of them or by reasons of any other act of forbearance or other acts of omission or commission on the part of IITM or any other indulgence shown by IITM or by any other matter or thing whatsoever which under law would, but for this provision, have the effect of relieving the Bank Guarantee. The Bank further undertakes not to revoke this guarantee during its currency without the previous consent of IITM.

- 6.0 The Bank further agrees that the decision of IITM as to the failure on the part of the CONTRACTOR to fulfill their obligations as aforesaid and/or as to the amount payable by the Bank to IITM hereunder shall be final, conclusive and binding on the Bank.
- 7.0 The Bank also agrees that IITM shall be entitled at his option to enforce this guarantee against the Bank as a principal debtor, in the first instance notwithstanding any other security or guarantee that it may have relations to the CONTRACTOR'S liabilities.
- 8.0 This guarantee will not be discharge due to the change in the constitution of the Bank or the CONTRACTOR.
- 9.0 Notwithstanding anything contained hereinabove, our liability under this bank guarantee shall not exceed Rs.1,00,000/- (Rupees One Lakh only).This bank guarantee shall be valid upto Eighteen (18) months and or till the completion of this CMIS project, DOE, IITM.It is a condition to our liability for payment of the guarantee amount or any part thereof arising under this bank guarantee that we receive a valid return claim or demand for payment under this bank guarantee on or before, failing which our liability under this bank guarantee will automatically cease.

WITNESS:-

1..... SIGNATURE.....
(Signature with name in block letters and (Printed Name)
with designation)

2..... Bank's Common Seal:-
(Signature with name in block letters and
with designation)