


	INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 Telephone: [044] 2257 9798/9723 FAX: [044] 2257 4816 E-mail: arpp@iitm.ac.in	
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V. Sathyanarayanan
Senior Manager (Project Purchase)

Ref: OEC/KMUR/002/2018
Date: 22.11.2018

Open Tender No: OEC/KMUR/002/2018

Due Date: 12th December 2018, 2:30 pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on 12th December 2018, 4:30 PM at Department of Ocean Engineering, IIT-Madras.

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of **“Single Beam Echo Sounder with In-built DGPS”** conforming to the specifications given in Annexure I.

Vendor who can supply and integrate the above equipment alone need to respond to the tender please.

Instructions to the Bidder

- I. **Preparation of Bids:** - The tenders should be submitted under two-bid system (i.e.) Technical bid and Financial bid.
- II. **Delivery of the tender:** - The tender shall be sent to the addresses mentioned below, either by post or by courier so as to reach our office before the due date and time specified in our schedule. The offer/bid can also be dropped in the tender box on or before the due date and time specified in the schedule.
The tender box is kept in the office of the:

**Senior Manager,
Project Purchase,
IC & SR Building 2nd floor,
I.I.T. Madras,
Chennai - 600 036.**
- III. **Opening of the tender:** - The offer/bids will be opened by a committee duly constituted for this purpose. The technical bids will be opened first and will be examined by a technical committee which will decide the suitability of the bids as per our specifications and requirements. All bidders will be invited for opening of the technical bids. With respect to opening the financial bid, only technically qualified bidders will be called.
- IV. **Prices:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to the **Department of Ocean Engineering**. The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. Kindly note that IIT Madras is eligible for concessional GST and relevant certificate will be issued.

In case of import supply, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty (not exceeding 5%) and the price should be quoted on EX-WORKS and CIP basis indicating the mode of shipment.

- V. Agency Commission:** - Agency commission, if any, will be paid to the Indian agents in rupees after receipt of the equipment and its satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances. The details should be explicitly shown in the tender document even in the case of 'Nil' commission. The tenderer should indicate the percentage of agency commission to be paid to the Indian agent. The foreign Principal should indicate the percentage of payment and it should be included in the basic price quoted originally (if any)..
- VI. Terms of Delivery:** - The item should be supplied to the **Department of Ocean Engineering, IIT Madras** as per the Purchase Order. In case of import supply, the item should be delivered at the cost of the supplier to our Institution. The Installation/Commissioning should be completed as specified in our important conditions.
- VII. Technical Bid Opening:** The technical bid will be on 12th December 2018, 4:30 PM at the **Department of Ocean Engineering**. The financial bids of those tenders who are technically qualified will be opened at a later date under intimation to them.
- VIII. IIT Madras** reserves the full right to accept / reject any tender at any stage without assigning any reason.

Yours sincerely,

V. Sathyanarayanan
Senior Manager (Project Purchase)
IC&SR Building, I.I.T. Madras,
Chennai - 600 036.

SCHEDULE

Important Conditions of the tender

1. The due date for the submission of the tender is **12.12.2018, 2:30 pm.**

The offers / bids should be submitted in two bids systems (i.e.) Technical bid and financial bid. The Technical bid should consist of all technical details / specifications only. The Financial bid should indicate item-wise price for each item and it should contain all Commercial Terms and Conditions including Taxes, transportation, packing & forwarding, installation, guarantee, payment terms, pricing terms etc. The Technical bid and financial bid should be put in separate covers and sealed. Both the sealed covers should be put in a bigger cover. The Open Tender for supply of **“Single Beam Echo Sounder with In-built DGPS”** should be written on the left side of the Outer bigger cover and sealed.

2. **EMD: - The EMD Rs. 2,50,000/- in the form of account payee DD in favor of Registrar IIT Madras should be enclosed in the cover containing Technical bid.** Any offer not accompanied with the EMD shall be rejected summarily as non-responsive.

The EMD of the unsuccessful bidders shall be returned within 30 days of the end of the bid validity period. The same shall be forfeited, if the tenderers withdraw their offer after the opening during the bid validity period. The Institute shall not be liable for payment of any interest on EMD. EMD is exempted for Micro and Small Enterprises (MSE) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME).

When no local agent, the foreign vendor can submit demand draft equal to Rs. 2,50,000/ or wire transfer the amount to our account as detailed in the attachment (Annexure II) and enclose the proof with the technical bid.

3. **Performance Security: -** The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply. The Performance Security may be furnished in the form of an Account Payee DD, FD Receipt from the commercial bank, Bank Guarantee from any nationalized bank in India. **The performance security should be furnished within 21 days from the delivery of the purchase order.**

Performance Security in the form of Bank Guarantee:- In case the successful bidder wishes to submit Performance Security in the form of Bank Guarantee, the Bank Guarantee should be routed through the Beneficiary Bank to the end user bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee from a Nationalized Bank of India.

The Bank Guarantee should remain valid for a period of sixty days beyond the date of completion of all contractual obligations of the supplier including the warranty obligations.

4. **Indian agent:** If an Indian agent is involved, the following documents must be enclosed:
Foreign principal's proforma invoice indicating the commission payable to the Indian Agent and nature of after-sales service to be rendered by the Indian Agent.
 - ✓ Copy of the agency agreement with the foreign principal and the precise relationship between them and their mutual interest in the business.
5. The offer/bids should be sent only for a machine that is available in the market and supplied to a number of customers. A list of customers in India and abroad with details must accompany the quotations. Quotations for a prototype machine will not be accepted.
6. Original catalogue (not any photocopy) of the quoted model duly signed by the principals must accompany the quotation in the Technical bid.

7. Compliance or Confirmation report with reference to the specifications and other terms & conditions should also be obtained from the principal.
8. **Validity:** Validity of Quotation not less than 90 days from the due date of tender.
9. **Delivery Schedule:** - The tenderer should indicate clearly the time required for delivery of the item (subjected to the executive committee-IITMadras approval). In case there is any deviation in the delivery schedule, liquidated damages clause will be enforced or penalty for the delayed supply period will be levied.
If there is delay, the penalty will be @1% per week of delay subject to a max of 10% of the value of purchase order and if the delay is more than accepted time frame by IITM, the PO would be cancelled and liquidated damages will be enforced.
10. **Risk Purchase Clause:-** In the event of failure of supply of the item/equipment within the stipulated delivery schedule, the purchaser has all the right to purchase the item/equipment from other sources on the total risk of the supplier under risk purchase clause.
11. **Payment:-**
 - (i) No Advance payment will be made for Indigenous purchase. However 90% Payment against Delivery and 10% after installation are agreed to wherever the installation is involved. In case of import supplies the payment will be made only through 100% Letter of Credit i.e. (90% payment will be released against shipping documents and 10% after successful installation wherever the installation is being done).
 - (ii) **Advance Payment:** No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Foreign Vendor has to submit a Bank Guarantee equal to the amount of advance payment and it should be routed through the Beneficiary Bank to the end user Bank. Otherwise, the Indian Agent of the foreign vendor has to submit a Bank Guarantee through a Nationalized Bank of India.
12. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within 15 to 20 days from the date of receipt of the item at site of IIT Madras.
13. **Warranty/Guarantee:** - As per the tender specification.
14. **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 on account of Postal, Courier or any other delay.
15. **Acceptance and Rejection:** - I.I.T. Madras has the right to accept the whole or any part of the Tender or portion of the quantity offered or reject it in full without assigning any reason.
16. **Do not quote the optional items or additional items unless otherwise mentioned in the Tender documents / Specifications.**

17. **Disputes and Jurisdiction:**

Settlement of Disputes: Any dispute, controversy or claim arising out of or in connection with this PO including any question regarding its existence, validity, breach or termination, shall in the first instance be attempted to be resolved amicably by both the Parties. If attempts for such amicable resolution fails or no decision is reached within 30 days whichever is earlier, then such disputes shall be settled by arbitration in accordance with the Arbitration and Conciliation Act, 1996. Unless the Parties agree on a sole arbitrator, within 30 days from the receipt of a written request by one Party from the other Party to so agree, the arbitral panel shall comprise of three arbitrators. In that event, the supplier will nominate one arbitrator and the Project Coordinator of IITM shall nominate an arbitrator. The Dean IC&SR will nominate the Presiding Arbitrator of the arbitral tribunal. The arbitration proceeding shall be carried out in English language. The cost of arbitration

and fees of the arbitrator(s) shall be shared equally by the Parties. The seat of arbitration shall be at IC&SR IIT Madras, Chennai.

- a. **The Applicable Law:** This Purchase Order shall be construed, Interpreted and governed by the Laws of India, Court at Chennai shall have exclusive jurisdiction subject to the arbitration clause.
- b. Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Chennai in Tamil Nadu.

20. All Amendments, time extension, clarifications etc., will be uploaded on the website only and will not be published in newspapers. 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 mail.

Acknowledgement: - It is hereby acknowledged that the tenderer has gone through all the conditions mentioned above and agrees to abide by them.

**SIGNATURE OF TENDERER
ALONG WITH SEAL OF THE
COMPANY WITH DATE**

TENDER SPECIFICATION OF SINGLE BEAM ECHO SOUNDER WITH IN-BUILT DGPS

1. The Scope of the supply

Supply of the two numbers of Single Beam Echo Sounder with inbuilt DGPS receiver and suitable accessories.

2. Requirements

The Single Beam Echo Sounders are required to carry out the bathymetry survey in Ocean/Sea, Lake, River, Streams and any Water body.

3. Technical Specification

Sl.no	Parameter	Description/Range
1	Type	Portable Single Beam dual Frequency Echo Sounder with the in-built DGPS
2	Quantity	2 sets
3	Frequency 1. Low band 2. High band	1. Low: 24 kHz – 50 kHz 2. High: 100 kHz – 340 kHz (Dual channel selectable with simultaneous operation)
4	Depth range	Up to 200m or better
5	Tuning options	1 kHz steps
6	Ping rate	10 Hz - 20 Hz
7	Depth Accuracy	1 cm \pm 0.1% of depth or better
8	Resolution	1 cm (1m to 100 m depth range) or better
9	Beam width	$\leq 8^\circ$ / -3dB
10	Update Rate	100 millisecond or better
11	Heave compensation	Through Motion sensor interface
12	Transducer Cable (Minimum)	10m
13	Transducer Draft	4m
14	Power	9 to 24V DC
14	Storage Media / Memory	Internal Removable Storage 32 GB or more
16	Protection	IP67 / Rugged & Tough Construction
17	Temperature	0°C to 50°C
18	Sound Velocity	1400 – 1700 m/sec at 1 m/s resolution
19	Transducer Housing	Preferably brass or longer longevity with proof
20	Connectivity & Interface	Input & Output <ul style="list-style-type: none"> • 4 x RS 232 for NMEA (like, LAT, LONG, Date, Time from DGPS/GPS, Sound velocity, Heave and Sound sentence,survey data loggers) & Inputs /output from External Computer • 1 USB port (to interface with a computer) • EM Log Interface • Network Interface
21	Compatibility	All GPS, Hypack & HydroPro, Low input power, etc.,
22	Clock	Internal backed time, elapsed time & date clock

23	DGPS inbuilt with Echosounder	<ul style="list-style-type: none"> • Beacon and SBAS capable • Within Echosounder Enclosure (built-in DGPS) • Weatherproof enclosure • NMEA output (Such as LAT, LONG, Date, Time from DGPS/GPS, Sound velocity, Heave – External etc.)
24	Digital Data Loggings	Depth data can be logged to a file along with all NEMA output
25	Output Formats	NMEA, ASC II
26	Operational Modes	<ol style="list-style-type: none"> 1. Auto mode 2. Manual mode
27	Display Operations	<ul style="list-style-type: none"> • Graphical User Interface • LED or LCD Display • On Control PC
28	Instrumentation spares (Spares list to be quoted as an option.)	Standard tool kit must be provided. Essential spares and consumables for the operation to be included in the offer.
29	Manuals, Technical literature	<ul style="list-style-type: none"> • Two sets of manual copies with complete technical details such as circuit description, detailed wiring diagrams. The servicing manual, Overall system, faultfinding flow charts, diagnostic flow charts to be provided, wiring details between different units to be made available to the IITM. • All necessary details such as drawings, dimensions, weights and power consumption of the system/subsystems to be provided along with the quote to facilitate assessment related to space and power requirements.
30	Software	Windows based software: Control & Logging, E-Chart Display, Storing, etc.,
31	Mounting accessories	<ul style="list-style-type: none"> • Water proof glands for the transducers if required • Steel rod/pipe to support the transducer housing and accommodate cable/glands
32	Standard	Compliance to IHO Standards
33	Warranty	1 Year
34	<p>Note:</p> <ol style="list-style-type: none"> 1. AMC Cost for the echo sounder unit (Optional): <ul style="list-style-type: none"> 1st yr = 2nd yr = 3rd yr = 4th yr = 5th yr = 	

4. Eligibility

The bidder must have a strong presence of at least 10 years in the Indian market and Should have supplied similar type of equipment to a govt agency

5. General

Items to be supplied along with calibration/test certificate.

6. Specification test

Specification of all items to be ensured by IITM before acceptance of the same.

7. Training

Hands on training to be provided to get operating knowledge of the items.

8. Dispatch

All items should be properly packed in the suitable box and it should be dispatched to
NTCPWC,IITM, Chennai 36

9. Delivery

Items should be supplied within 8-12 weeks from the date of receipt of purchase order.

10. Validity

The offer should be valid for 90 days.



CENTRE FOR INDUSTRIAL CONSULTANCY & SPONSORED RESEARCH (IC&SR)
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI 600 036



B NAGARAJAN
JOINT REGISTRAR (IC & SR)

Project Accounts
July 22, 2016

TO WHOMSOEVER IT MAY CONCERN

In connection with project, **US currency may be transferred to CANARA BANK, IIT - MADRAS Branch** with the following details.

FOR TRANSFER OF CURRENCY US DOLLAR

Please Credit in USD

(THROUGH)

JP MORGAN CHASE, NEW YORK
SWIFT CODE: CHASUS33

For Credit to

USD ACCOUNT No: 001-1395969, of CANARA BANK INTERNATIONAL DIVISION
MUMBAI

For Further Credit to

ACCOUNT NO: **2722101001741** of IIT Chennai – Swift Code: **CNRBINBBIIT**
OF THE REGISTRAR, IIT, MADRAS


JOINT REGISTRAR (IC & SR) i/c

संयुक्त कुलसचिव (आई.सी. एवं एस.आर.)
JOINT REGISTRAR (IC & SR)

आई.आई.टी. मद्रास

This is to certify that the particulars furnished are correct.

For Canara Bank

Senior Manager
Canara Bank - IIT Madras branch



एस. अरवींदन
S.ARAVINDAN
सीनियर प्रबंधक Senior Manager
प.अ.सं. S.P.No.31649