

	<p style="text-align: center;">INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036</p> <p style="text-align: center;">Telephone: (044) 2257 8919/8918 E-mail: leo@ntcpwc.iitm.ac.in</p>	
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Prof. K. Murali
Project Coordinator

Ref: NTCPWC/Echosounder/KMUR/2020/3
Dated: 07.08.2020

Limited Tender No: NTCPWC/Echosounder/KMUR/2020/3

Due Date: 21.08.2020, 3:00pm

Pre-Bid meeting: - Not required.

Technical Bid opening meeting on Due Date: 21.08.2020, 4:00pm

Dear Sir/Madam,

On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of “**Compact Echo sounders with built-in Tilt Sensor**” (3 Nos) conforming to the specifications given in (Annexure-I).

Terms and Conditions of Limited Tender

1. **Preparation of Bids:** - The Limited tenders should be submitted under **Two bid system** (i.e.) Technical- and -Financial bid.
2. **Delivery of the tender:** - The tender shall be sent to the below-mentioned addresses either by post or by courier (duly sealed and super scribed on the envelope with the reference No and due date) so as to reach the following address before the due date and time specified in our Schedule:
**The Project Co-ordinator,
NTCPWC, Room No.606, 6th Floor,
New Academic Complex, IIT Madras,
Chennai – 600 036**
3. **Price:** - The price should be quoted in net per unit (after breakup) and must include all packing, Insurance and delivery charges to **NTCPWC, IIT Madras.**
 - a. The offer/bid should be exclusive of taxes and duties. The percentage of tax & duties should be clearly indicated separately. IIT Madras is eligible for concessional GST and relevant certificate will be issued.
 - b. 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 (stating the Cost, Insurance, Freight separately) and indicating the mode of shipment.
4. **Terms of Delivery:** - The item should be supplied to NTCPWC, IIT Madras as per 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.
5. **Catalogue:** Original catalogue (not any photocopy) of the quoted model duly signed must accompany the quotation in the Technical bid
6. **Late offer:** - The offers received after the due date and time will not be considered
7. **Payment:** - 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).

8. **Advance Payment:** - No advance payment is generally admissible. In case of specific percentage of advance payment is required, the Vendor has to submit a Bank Guarantee from a Nationalized Bank of India equal to the amount of advance payment.
9. **On-site Installation:** - The equipment or machinery has to be installed or commissioned by the successful bidder within number of days (as prescribed by Project Coordinator) from the date of receipt of the item at site of IIT Madras.
10. **Warranty/Guarantee:** - The offer should clearly specify the warranty or guarantee period for the machinery/equipment.
11. **Validity:** Validity of Quotation not less than 90 days from the due date of tender
12. **Technical Bid Opening:** The technical bid will be opened on **21.08.2020 4:00pm** at **NTCPWC, IIT Madras** and the **financial bids** of those tenders who are technically qualified will be opened at a **later date under intimation to them.**
13. **Performance Security:-**The successful bidder should submit Performance Security for an amount of 5% of the value of the contract/supply within 14 days from the issue of work/purchase order. The Performance Security should be furnished in the form of an Account Payee DD / FD Receipt from the commercial bank (or) Bank Guarantee from any nationalized bank in India.
14. **Accept /Reject:** IIT Madras reserves the full right to accept / reject any tender at any stage without assigning any reason.
15. **Settlement of Disputes:** 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.
16. **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.
17. **Unsolicited offers:** “This notice is being published **for information only** and is not an open invitation to quote in this limited tender. Participation in this tender is by invitation only and is limited to the selected registered suppliers. Unsolicited offers are liable to be ignored. However, suppliers who desire to participate in such tenders in future may apply for registration as per procedure.” The Website for Registration of vendors is <http://web.iitm.ac.in/supplier/> and the mail address for queries is “workflow@rt.iitm.ac.in”.

Yours sincerely,

Prof. K. Murali,
NTCPWC
IIT Madras
Chennai - 600 036

**SUPPLY OF THREE NUMBERS OF COMPACT ECHOSOUNDERS
WITH BUILT-IN TILT SENSOR**

1. **The Scope of the supply**
Supply of three numbers of compact echo sounders with built-in tilt sensor along with suitable accessories.
2. **Requirements**
The Echo sounders are required to measure water depth at the navigational paths of the ports.
3. **Technical Specification**

Sl. No	Parameter	Description/Range	Compliance
			Yes/No
1	Type of the Echo sounder	Compact Dual Frequency echo sounder	
2	Quantity	3 no's	
3	Operating frequency	a. HF: 200 KHz	
		b. LF: 30- 50 kHz	
		a. Dual frequency mode (LF&HF)	
		b. Single frequency mode (LF/HF)	
5	Beam angle	a. <30°	
		b. <10°	
6	Measuring distance	0.5 m to100 m	
7	Sampling Rate (max)	10 kHz	
		a. Built-in dual axis -Tilt Sensor (external Tilt sensor will not be accepted)	
		b. Roll & Pitch ±90°	
9	Working Temperature	a. Up to 50 °C	
		b. Resolution 0.2°C or better	
10	Data Interface	RS-232 / USB	
11	Back scatter measuring resolution	<10mm	
12	Baud rate	9600 to 115200 Bps	
		a. NMEA0183	
		b. Profile 12bit / 10bit ASCII Text/Binary	
14	Subsea connector & Cable length	SEACON connector terminated with 10-meter subseacable	
		a. OEM software tool/ Any Terminal	
		b. Hypack / Teledyne PDS	
16	Operating voltage	12 VDC or 24V VDC	
17	Auxiliary power	< 5W	
18	Weight	< 500g in air (without cable)	
19	Housing	Suitable for 20m depth of seawater	
20	Protection rating	IP-68	
21	Accessories	316L Mounting brackets, Fasteners, Aux cable/s, Configuration software/Driver if any.	
22	Certificate	OEM Test/ Calibration certificate	
23	Warranty	1 Year	

24	Manuals, Technical literature	Manual / Installation manual copies with complete technical details.	
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4. **Eligibility**

The bidder must have a strong presence in the Indian market at least for past five years and should have supplied similar type of equipment to a Government agency.

5. **General**

Items to be supplied along with calibration/test certificate.

6. **Specification test**

Specification of all items to be ensured by NTCPWC, 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-600036, India.

9. **Delivery**

Items should be supplied within 6-8 weeks from the date of receipt of purchase order.

10. **Validity**

The offer should be valid for 90 days.

In case of any technical clarification, please contact leo@ntcpwc.iitm.ac.in, (All clarification to be asked and get clarified four days earlier to due date).