

	INDIAN INSTITUTE OF TECHNOLOGY MADRAS Chennai 600 036 Telephone: (044) 2257 4809 E-mail: vsundar@iitm.ac.in	
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Prof. V. Sundar
Project Coordinator

Ref: *OE/2019/010/Project/Vsun*
Dated: 10/03/2020

Limited Tender No: *OE/2019/010/Project/Vsun*

Due Date: 31.03.2020, 3:00pm

Technical Bid opening meeting on Due Date: 31.03.2020, 4:00pm

Dear Sir/Madam,

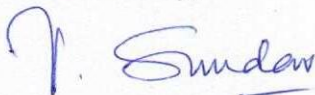
On behalf of the Indian Institute of Technology Madras, offers are invited for the supply of "SHALLOW WATER WAVE RECORDER" conforming to the specifications given in (Annexure-I).

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:
Prof. V Sundar,
Department of Ocean Engineering
IIT Madras
Chennai - 600 036.
3. **Price:** - The price should be quoted in net per unit (after breakup) and must include all packing and delivery charges to **Department of Ocean Engineering.**
 - 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 our Departments 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 PI's) 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 60 days from the due date of tender
12. **Technical Bid Opening:** The technical bid will be opened on 31.03.2020, 4:00pm at the **Department of Ocean Engineering**, 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 21 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 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. V. Sundar,
Department of Ocean Engineering
IIT Madras
Chennai - 600 036.

Dr. V. SUNDAR
PROFESSOR EMERITUS
DEPT.OF OCEAN ENGINEERING
INDIAN INSTITUTE OF TECHNOLOGY MADRAS
CHENNAI-600 036. INDIA.

Shallow Water Wave Recorder

Date: 10th March 2020

Technical Specifications:

DESCRIPTION	SPECIFICATIONS
1. Sensor	
Type	Pressure Gauge
Measuring Frequency	8 channel 14bit at 4Hz
Temperature	-30°C to +40°C
Humidity	0 – 100%
Protection	IP67
2.Wave Height	
Range	0 to 20 Meter or better
Accuracy	± 1 Centimeter
Interval	1 Min or better
Processing	Standard Wave Analysis Program
3.Wave Period	
Range	1 – 50 Seconds or better
Accuracy	± 50 ms
Interval	1 Min or better
Processing	Standard Wave Analysis Program
4.Wave Direction	
Range	0° to 360°
Accuracy	± 1°
Period	1.6 – 50 Seconds
Interval	1 Min or better
Processing	Standard Wave Analysis Program
5. Processing Unit	
Protection	IP67
Communication	RS485, RS232, LAN, USB & Online Transmission
Communication frequency	10Ghz (X Band)
Temperature	-20° to 65° C
Power	1) Works with both internal battery power source and external power source 2) 3.6V DC Lithium cells based battery unit - 2 sets with charger 3) 9VDC – 30VDC (External Power source)
Software	Software of Processing Wave parameters & Tide
Connectivity cable	Power and Data cable supports external power source and Minimum 50m length.
6. Optional : Mounting frame / arrangements should be specified or supplied as an optional item.	
a) The Deployment and Retrieving mechanism should be spelt out	
b) Annual Maintenance Arrangements, if any to be mentioned for 5 years (optional)	
c) Instrument's Standard Operating Procedure should be provided with the manual.	
NB: 1. You should indicate the authorized service center in India if the item is 'imported'.	

Dr. V. SUNDAR
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