Department of Ocean Engineering (DOE)
IIT Madras, Chennai-600036, TN

17th October 2018

FIELD INSTRUMENT FOR SURVEYING

Due date:

* Submission of technical and commercial proposal: On or before **1st November 2018@15:00 hrs.**
* Bid opening: **1st November 2018@15:30 hrs.**

1. Quotations are invited in duplicate for the item shown in enclosed list as Annexure 1.
2. The quotations must be submitted under two bid system indicating clearly technical bid and financial bid on the envelope. Both the bids should been closed in the single envelop in a sealed cover.
3. The Quotations duly sealed and super scribed on the envelope with the reference No. and due date, Should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
4. The Quotations shall be valid for 90 days from the due date and the period of delivery, warranty terms etc. should also be clearly indicated. A minimum of one year warranty is required.
5. Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items enquired have been supplied must be provided.
6. Compliancy certificate is to be provided indicating conformity to the technical specifications.
7. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples / machine/ equipment if called for should be submitted / demonstrated at free of charges, and collected back at the supplier's expenses.
8. Packing and delivery charges must be clearly indicated.
9. The rates of GST and other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for GST/General Taxes will be admitted at any stage and on any ground whatsoever.
10. IIT Madras is eligible for concessional GST. Relevant certificate will be issued. In case of Imports, the price should be quoted without custom duty. IIT Madras is exempted from levy of IGST on Imports and eligible for concessional custom duty. In case of import supply, the price should be quoted on EX-WORXS and **CIP** basis indicating the mode of shipment.
11. Goods should be supplied carriage paid and insured.
12. Goods shall not be supplied without an official supply order.
13. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill/ acceptance of goods, whichever is later.
14. **Acceptance and Rejection:** - IIT 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.

Yours faithfully,

Annexure 1

Ref: OED/2018/014/Project/VSRR

Specifications of Acoustic Doppler velocity meter with software capability – 1No.

Find the specifications below:

Application	To measure water particle kinematics under waves in laboratory without seeding particle
Proven track record	The supplied model should have the capability to measure with waves.
Water Velocity Measurements	
Sampling volume diameter	Not more than 8 mm
Sampling volume height	Not more than 16 mm
Velocity range	0.1 to 4 m/s
Accuracy	±1.5 mm/s
Sampling rate (output)	100/200 Hz
Echo intensity	
Acoustic frequency	10 MHz
Resolution	Linear scale
Dynamic range	Minimum 25 dB
Sensors	
Temp. range	30 °C
Temp. accuracy/resolution	Max. 2 °C/0.2 °C
Data communications	
I/O	RS-232
Communication baud rate	300-116000 Bd
Analog outputs	Preferred
Output range	0–5 V
Synchronization	Via Cable or software
Software	
Functions	Instrument configuration, data retrieval and conversion (for Windows) should be handled efficiently.
Multi-unit operation	
I/O	RS 232–USB support required
Power	
DC input	24 V DC
Maximum peak current	2.5 A at 12 V DC

Max. consumption	1.5 W at 200 Hz
Environmental	
Operating temperature	+10°C to + 40 °C
Storage temperature	+10 °C to +40 °C
Depth rating	2 m – 10m
Materials	
cable with Impulse underwater connector	
RS 232–USB converter	
Weight	
Weight in air	Max. 1.5 kg
Weight in water	Neutral

2. Prerequisite

The vendor has to submit proof of documents for similar Acoustic Doppler velocity meter supply in India. In addition, the proof of documents for successful completion of at least two supplies of same Acoustic Doppler velocity meter should be submitted.

3. Payment terms

Please specify the payment terms. IIT Madras reserves the right to negotiate the terms of payment as acceptable to the purchase procedures prevalent from time to time.

4. Terms **and conditions**

Please quote the rate with the following details.

1. Quotation validity minimum 90 days.
2. Submission of Methodology, Delivery and commissioning periods. Tax details.
3.

5. Force Majeure

Neither the Agency nor the owner 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, riots, civil commotion, epidemic, major fires, explosions, floods, earthquakes or because of any law, order, proclamatory regulations or ordinance of Government, 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 the said 14 days period, then within the shortest possible period without delay.

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.

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 Agency against the Owner on any account of such a delay for any other reason whatsoever.

- Pre-bid meeting will be held on 26th October 2018@3.00 pm
- Venue: Department of Ocean Engineering, IIT Madras.

Proposal send to following Address:-

Dr.V.Sriram,
Associate Professor,
Dept. of Ocean engineering, IIT
Madras, Chennai 600036.