



**Indian Institute of Science**  
Centre for Atmospheric and Oceanic Sciences  
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*Dr P.N. Vinayachandran,*  
Professor

14 December 2015

Dear Sir,

**Subject:** Request for quotation for an ocean underwater turbulence profiler

**Bid Notification Number: CAOS/Tender/IITM02-2/2015**

QUOTATIONS SHOULD BE SUBMITTED IN SEALED COVERS AND SUPERSCRIBED WITH THE ENQUIRY NUMBER AND SHOULD BE SUBMITTED WITHIN THE DUE DATE.

**INTRODUCTION:**

Indian Institute of Science (IISc) is located in the city limits of Bengaluru City Corporation. There are about 45 departments and centres in IISc that work on a wide range of scientific and technological areas of research. Centre for Atmospheric and Oceanic Sciences (CAOS) is one of the centres in IISc and our research addresses a wide variety of topics within the broad realm of atmosphere-ocean-climate science. CAOS has served as leader in planning and execution of several Indian National oceanographic experiments and multinational ocean observation programs. One of the research theme of CAOS is understanding the dynamics of Indian Ocean by way of both observations and simulations using numerical models.

The instrument intended in this tender is meant for making measurements of turbulence by means of velocity shear and microstructure of temperature and salinity in the ocean as a function of depth on board Indian research vessels.

**BRIEF SCOPE OF THE PROJECT:**

- Supply of the instrument and accessories, installation and complete maintenance for three years.

**ELEGIBILITY CRITERIA:**

Following are the minimum qualifying requirements for the firms, who intend to express their interest.

1. The bidder shall be an established agency having adequate experience in supply, installation and maintenance of similar instruments in the last three years (evidence supported by copies of purchase orders).
2. The bidder should have an annual turnover of not less than 1 Crore in any last three completed financial years.

**SELECTION PROCESS:**

Step-1: Short listing based on technical documents submitted by the firm along with the expression of interest, in proof of satisfying the two eligibility criteria given above.

Step-2: Subsequent evaluation of the competency and other technical merits of the product and also the financial capabilities, during the purchase committee meeting. Only those firms who satisfy step-1 will be selected for the evaluation process under step-2.

**Terms and Conditions:**

- 1) Two cover system must be followed for submission of proposals. One cover should contain the 'Technical bid' and the other the 'Commercial bid' and each cover should be labeled respectively.
- 2) The technical bid must include all details of technical specifications of the equipment along with commercial terms and conditions, the bill of materials (which would later become the shipping document) with the prices masked,

printed technical brochures and any other document provided by the vendor to help the evaluation of the bids.

- 3) The commercial bid should include the price of the item in Indian/Foreign currency:
  - a) FOB price
  - b) Freight and insurance
  - c) Agency commission in India rupees for any pre-sale work, installation commissioning and first year warranty
  - d) Post warranty and maintenance charges
  - e) Total
- 4) If there is no agency commission or other payments payable in India, a certificate to that effect that no amount would be payable to any Indian agent should be provided by the vendor as an explicit declaration.
- 5) The 'Commercial bid' should also include mode of payment. The standard payment terms are
  - a) Advance payment with specific recommendation, by DD or Wire transfer
  - b) Letter of Credit (L.C).
  - c) Payment after satisfactory supply (and installation and commissioning)
- 6) Kindly arrange to enclose APGST, CST, ITCC copies along with copies of orders executed recently and performance track record , if not submitted earlier.
- 7) Please arrange to enclose valid Exclusive Dealer/Distributor Certificate.
- 8) 3 years onsite warranty should be confirmed while quoting the offer.
- 9) For software items, updates during the warranty period are to be provided without any additional cost to IISc.
- 10) Supply, Configuration, installation, commissioning, demonstration and training are also the responsibility of the supplier only.
- 11) Please arrange to send Brochure, literature and Pamphlets of the products quoted.

- 12) Please arrange to send your Bank details for making E-payment.
- 13) Offer should be valid for a minimum period of 90 days from the last date for submission of quotes.
- 14) Delivery period is to be specified.
- 15) The quotation should be in sealed covers. The cover should be submitted to the CAOS office. The last date for submitting the bid is 05 December 2015.
- 16) Price quoted should be inclusive of all taxes / duties and shown separately. The price quoted should be for delivery of the items to the site and installation at site.

**Important Dates:**

Date of release of the enquiry: 15 December 2015

Last date for submission of quotes: 15 January **2016**

For any clarifications, contact: Prof. P. N. Vinayachandran, Centre for Atmospheric and Oceanic Sciences, Indian Institute of Science, Bangalore 560 012. Tel: +91 80-22933065; Email: [vinay@caos.iisc.ernet.in](mailto:vinay@caos.iisc.ernet.in)

**Specification for the Microstructure Profiler**

Complete profiler package should contain all components and required sub-units .

The proposed profiler should have sensors for velocity shear, micro temperature, micro conductivity, pressure sensor, CT sensor, accelerometer and tilt sensor.

Optional sensors for oxygen, fluorescence may also be proposed and quoted.

Principles of operation, sampling frequency, range, accuracy, resolution and details of calibration should be clearly stated in the proposal.

Necessary software for data acquisition and processes should be part of the

proposal.

Any accessory such as winch, cable, wire etc., that is required to for operation of the instrument from the deck of the ship should be provided as a part of the proposal

The instrument and all subunits should be portable and should not require permanent fitting to the ship.

The data collection, storage and transfer software, connectivity to computers should be provided.