



**Centre for Atmospheric & Oceanic Sciences  
Indian Institute of Science, Bangalore**

Phone: +91-80-2293 3070 / 2293 2505

Fax: +91-80-2360 0865

E-mail: [satheesh@caos.iisc.ernet.in](mailto:satheesh@caos.iisc.ernet.in)

**Dr. S.K. Satheesh  
Professor**

**Subject:** Request for quotation for Meteorological instruments.

**Bid Notification Number: CAOS/Tender/IITM03/2016/4**

QUOTATIONS SHOULD BE SUBMITTED IN TWO SEPARATE SEALED COVERS (TECHNICAL & COMMERCIAL BID) AND THE PACKAGE SUPERSCRIBED WITH THE ENQUIRY NUMBER AND SHOULD BE SUBMITTED WITHIN DUE DATE. QUOTATIONS VIA FAX AND EMAIL ARE NOT ACCEPTABLE.

**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. One of the research theme of CAOS is impact of atmospheric aerosols on climate. Aerosols are suspended particulates in the atmosphere and have implications for climate through different mechanisms. Several studies have suggested that aerosols may be mitigating global warming by increasing the planetary albedo, although the sign and magnitude of aerosol effects on climate are still uncertain as outlined in the International Panel of Climate Change (IPCC) reports. Atmospheric boundary layer has a crucial role in aerosol dispersion. It is imperative that detailed studies of atmospheric boundary layer are performed carefully to answer questions related to aerosol dispersion.

The instruments intended in this tender is meant for meteorological tower to study the characteristics atmospheric boundary layer at Challakere IISc campus.

**ITEM DESCRIPTION:**

1. 3-D Sonic anemometer (along with at least 120 ft cable and necessary mounting hardware): **2 numbers**
2. Wind speed & direction sensor (along with at least 120 ft cable): **3 numbers**
3. Air temperature and relative humidity sensor (along with at least 120 ft cable and solar radiation shield): **3 numbers**
4. Tipping bucket rain gauge (along with at least 50 ft cable): **1 number**
5. Heat flux sensor (along with at least 50 ft cable): **2 numbers**
6. Soil temperature sensor (along with at least 50 ft cable): **4 numbers**
7. Soil moisture sensor (along with at least 50 ft cable): **4 numbers**
8. Net Radiometer (four component) (along with adequate cable, adjustable angle mounting stand and kit) for energy budget studies: **1 number**
9. Barometric pressure sensor: **1 number**
10. Power Supply (along with charging regulator, solar panel, 50 Watt, 12 volt with mount (at least 10 ft lead): **3 numbers**; 12V, 100AH Battery: **2 numbers**; and battery enclosure: **2 numbers**)
11. Necessary mounting hardware (including weather-proof enclosure and installation kit)
12. Communication & Interface (Ethernet Interface and Compact Flash Module, with at least 16G Compact Flash Memory Card, USB Memory Card Reader/Writer and necessary cables)
13. Data Logger (with at least 4M RAM Memory and USB to Serial convertor)
14. Any other accessories required for mounting the above instruments.

**BRIEF SCOPE OF THE PROJECT:**

1. Supply of the instrument and accessories.
2. Installation on site (Challakere, IISc Campus, Karnataka).

**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 (evidence supported by copies of purchase orders).
2. The bidder should have an annual turnover of not less than 50 lakhs in any last three completed financial years.

### **SELECTION PROCESS:**

Step-1: Short listing based on 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. Please arrange to enclose valid Exclusive Dealer/Distributor Certificate.
2. At least 2 years onsite warranty should be confirmed while quoting the offer.
3. For software items, updates during the warranty period are to be provided without any additional cost to IISc.
4. Supply, Configuration, installation, commissioning, demonstration and training are also the responsibility of the supplier only.
5. Please arrange to send Brochure, literature and Pamphlets of the products quoted.
6. Please arrange to send your Bank details for making E-payment.
7. Offer should be valid for a minimum period of 90 days.
8. Delivery period is to be specified. Delivery in 4 months or less will be given preference.
9. The quotation should be in two separate sealed covers (Technical and Commercial bid). The cover should be submitted to Prof. S.K. Satheesh, CAOS, IISc. The last date for submitting the bid is 15 April 2016.

10. The offer should be valid for a period of at least 90 days from the last date for submission of quotes.
11. 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 March 2016

Last date for submission of quotes: 15 April 2016

For any clarifications, contact: Prof. S.K. Satheesh, Centre for Atmospheric and Oceanic Sciences, IISc. Tel: 080-22933070; Email: [satheesh@caos.iisc.ernet.in](mailto:satheesh@caos.iisc.ernet.in)