



**भारतीय उष्णदेशीय मौसम विज्ञान संस्थान**  
**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,**  
 (पृथ्वी विज्ञान मंत्रालय का स्वायत्त संस्थान, भारत सरकार के अधीन)  
 (An Autonomous Institute of the Ministry of Earth Sciences, Govt. of India)

File No. PS/125/139/2011/

Date:

Dear Sir,

We are interested in procurement of the following items. You are, therefore, requested kindly to submit your Quotation / Pro-forma Invoice in triplicate so as to reach this Institute on or before **8<sup>th</sup> May 2012 up to 12:00 hrs.** which will be opened on same day at **15:00 hrs.** The envelope should be super scribed "Enquiry Number PS/125/139/2011 due on **8<sup>th</sup> May 2012 up to 12:00 hrs.**".

| Sr. No. | Description of Stores  | Unit | Quantity |
|---------|--|------|----------|
| 01      | Supply, Commissioning, Installation & Satisfactory Demonstration of<br><b>Closed Path CO<sub>2</sub> – H<sub>2</sub>O Infrared Gas Analyzer</b><br>Specifications : (As per enclosure) | Set  | 01       |

The proforma invoice shall indicate the following information and also accompany relevant technical literature.

1. FOB / FCA value including packing, forwarding and inland freight charges.
2. C&F / CIF Mumbai (INDIA) value by airfreight.
3. Please indicate the name & address of your Indian agent. Please also indicate the amount of agency commission payable to him in Indian currency after the receipt of the consignments in good condition at our Stores and in case of equipment after the satisfactory installation & commissioning. Indian Foreign Exchange & Regulations Act do not permit the inclusion of Indian agency commission, discount or like rebates allowed by foreign suppliers in FOB value, payable to their Indian agents. Such commission, discount etc., if any, must be indicated separately in your offer;
4. Indicate the names of the Indian reputed organizations where you have supplied the similar equipment and may attach the satisfactory performance report of the equipment from users;
5. If you have supplied identical or similar equipment to other Govt. Organization CSIR/Labs/Institute., the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid;
6. Fax/e-mail tenders will not be considered

P.T.O.

तार : ट्रॉपमेट, पुणे Grams : TROPMET, PUNE

फैक्स : Fax : (020) 25893825 दूरभाष : Telephone : 25893600 / 25893675 - 81

डॉ. होमी भाभा मार्ग, पाषाण / Dr. Homi Bhabha Road, Pashan, पुणे / Pune - 411 008 ( भारत / India )

7. Please indicate clearly all bank charges (inside & outside India) shall be borne by the supplier/ beneficiary.
8. Details of services to be rendered by you.
9. The offer may be kept valid for minimum period of 180 days.
10. Proprietary Certificate in Original.
11. Country of Origin.
12. Terms & Period of Warranty.
13. Supply Compliance statement as per our technical specifications.
14. **90%** payment shall be made by Sight Draft / an Irrevocable Letter of Credit established in favour of the supplier through the State Bank of India, Main Branch, Camp, Pune 411 001 (India) for the order value, excluding the Agency Commission due to the Indian Agents, against the presentation of original Shipping documents, balance **10%** payment shall be released after completion of satisfactory installation, commissioning, demonstration of the whole system, after imparting training and upon receipt of Bank Guarantee from Indian nationalized bank for 10% of total Order value towards performance bank guarantee to be valid for one year from the date of installation. However Letter of Credit/Sight Draft arrangement will be made for 100% order value.

The Agency Commission to the Indian Agent will be paid only after successful installation, commissioning and satisfactory demonstration and acceptance of the items ordered for by the end user.

15. **Delivery:** The Equipments are required for **IITM, Pune** and to be installed **anywhere in India at different locations (Exact locations will be intimated in due course). Accordingly, cost may be quoted separately.**

We prefer to release the payment on Bill basis (excluding Indian agency commission) after the receipt of consignment in good condition. Alternatively, depending upon the value and foreign exchange regulations the payment can also be considered through Sight Draft/Letter of Credit through the State Bank of India for the order value excluding the Indian agency commission.

The payment shall be made by way of Letter of Credit through the State Bank of India, Pune - 411 001 ( INDIA ) excluding the Indian Agency Commission which shall be paid directly to Indian Agents in Indian rupees after receipt of materials in sound condition. Insurance shall be arranged by us if the mode of dispatch is air-freight.

Thanking you,

Yours faithfully,

(V. R. Mali)  
Senior Technical Officer-II  
for Director

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY  
PASHAN, PUNE – 411 008 (INDIA)**

(Enclosure to Enquiry Letter No. PS/125/139/2011 dated 09.04.2012)

**Specifications of “Closed Path CO<sub>2</sub> – H<sub>2</sub>O Infrared Gas Analyzer” Qty - 01 Set.**

The CO<sub>2</sub>-H<sub>2</sub>O closed path gas analyzer should be a high precision, fast response analyzer suitable for both high precise CO<sub>2</sub> and H<sub>2</sub>O mixing ratio measurements as well as to use as part of eddy-covariance system.

Should be suitable for continuous unattended operation for long-periods, with low power consumption. Should be able to operate with solar power based power supply.

Digital as well as analog data (at least 12 bit) output of CO<sub>2</sub> and H<sub>2</sub>O mixing ratios should be available at a rate of 10 Hz or more.

RS232 or USB connections should be available for communications with the analyzer and for data output.

Analog input channels to connect other auxiliary instruments are preferred.

CO<sub>2</sub> detector should have: operating range of 0-1000 µmol/mol. or higher; accuracy: 1% or better; zero drift: <0.3 µmol/mol/°C; span drift: <0.2% of reading/°C.

H<sub>2</sub>O analyzer should have: operating range of 0-60 mmol/mol or higher; accuracy: 1% or better; zero drift: <0.1 mmol/mol/°C; span Drift: <0.4% of reading/°C;

The analyzer should be supplied complete with calibration sheets, necessary cables, software, user manuals, basic accessories and replacement parts to run the analyzer for a period of one year.

**Warranty** : One year

**Optional** : CMC for next two year after the warranty period.

**Note** : (i) **Make, Model & Warranty period** may be mentioned clearly.

(ii) Technical specifications **compliance sheet** may be enclosed along with quotation.

(V. R. Mali)  
Senior Technical Officer-II  
for Director  
**Contact No.** : (91-020-25904483 / 210)  
**e-mail** : vipin@tropmet.res.in