



भारतीय उष्णदेशीय मौसम विज्ञान संस्थान  
एअर विज्ञान मंत्रालय, भारत सरकार का एक स्वायत्त संस्थान।  
डॉ. होमि भाभा मार्ग, पश्चिम, पुणे - ४११ ००८

INDIAN INSTITUTE OF TROPICAL METEOROLOGY  
(An Autonomous Institute of the Ministry of Earth Sciences, Govt. of India)  
Dr. Homi Bhabha Road, Pashan, Pune - 411 008, India



No. PS/125/17/2016

Date:

To

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 **17 May 2016 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/125/17/2016 due on **17 May 2016 up to 12:00 hrs.**"

Sr. No.	Description of Stores	Unit	Quantity
01	Supply of Net Radiometer & Corresponding Data Logger	Set	01

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

1. Please indicate FOB / FCA value including packing, forwarding and inland freight charges.
2. Please indicate C&F / CIF Mumbai (INDIA) value by airfreight also.
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
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 / Copy of Patent Certificate.

PTO

11. Certificate of Country of Origin.
12. Terms & Period of Warranty (**minimum One Year**).
13. AMC / CMC charges may be quoted separately (after expiry of standard period of warranty).
14. Installation, System Integration, Commissioning & Training charges, if any, may be quoted separately.
15. a) No advance can be paid.  
b) **PAYMENT:** For import goods, **80%** 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, **10%** payment shall be released after completion of satisfactory installation, commissioning, demonstration of the whole system, after imparting training and Balance **10%** will be released 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.  
c) For Indigenous items, **80%** payment shall be made against delivery of indigenous goods, **10%** payment shall be released after completion of installation, commissioning and on acceptance test as per Purchase Order at site and balance **10%** shall be made after receipt of performance Bank Guarantee from Indian nationalized bank for 10% of the total order value, to be valid for entire period of warranty including extension if any. If no Bank Guarantee is given, the balance 10% will be paid after assessing, after sales service during warranty period i.e. payment after warranty period.  
d) To ensure due performance of the contract, the successful bidder has to furnish the Performance Security in the form of bank guarantee for **10%** of the Order value from the Indian nationalized bank before execution of ordered work but not later than 15 days from the date of receipt of the Purchase Order. The same will be returned to the successful bidder only after completion of satisfactory installation, commissioning, demonstration of the whole system.
16. **Delivery:** The Equipments are required for IITM, Pune. Accordingly, cost may be quoted separately.
17. The Institute reserves the right to reject any or all tenders without assigning any reason thereof. Director, Indian Institute of Tropical Meteorology, Pune will be the final authority to decide the appropriate action and it will be binding on the Vendor in any kind of dispute for this tender.

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) 21/11/16  
Scientific Officer, Grade-II  
For Director

Indian Institute of Tropical Meteorology Pashan, Pune – 411 008

(Enclosure to Enquiry Letter No. PS/125/17/2016/ dated 21/04/2016)

**Specifications for Supply of "Net Radiometer & Corresponding Data Logger".**

**Specifications: Net radiometer**

Net radiometer is an instrument, which should provide highly accurate measurements of four components of radiation. It is needed to provide the incoming and reflected shortwave, as well as incoming and outgoing long wave radiation. The instrument is expected to cover approximate spectral range of 0.3 to 40  $\mu\text{m}$  including both short and long wave spectrum. Also data logger is required to store and download the acquired data of short and long wave radiations.

The specifications of components of required Net radiometer (Shortwave Pyranometer and long wave Pyrgeometer) and data logger are as follows

**Pyranometer**

1. Spectral Range: 0.3 to 2.8  $\mu\text{m}$  approximately
2. Response time required: <20 s or better.
3. Operating temperature:  $-40\text{ }^{\circ}\text{C}$  to  $+60\text{ }^{\circ}\text{C}$  or better.
4. Sensitivity: 7 to 20  $\mu\text{V/W/m}^2$
5. Temperature dependence of sensitivity: <5% or better
7. Field of view:  $180^{\circ}$  (short wave upper);  $170^{\circ}$  (shortwave lower).

**Pyrgeometer**

1. Spectral Range: 4.5 to 40 $\mu\text{m}$ .
2. Sensitivity: 5 to 15  $\mu\text{V/W/m}^2$
3. Response time required: <20s or better
4. Zero offset due to temperature change:  $\pm 4\text{ Wm}^{-2}$ .
5. Field of view :  $180^{\circ}$  (long wave upper )  $150^{\circ}$  (long wave lower )

Sensor need built in ventilation and also with no wind correction requirements. Mounting kit, associated rod and other amenities are required. Calibration sheet, required software and operation manual also are required. 25 m Cable is also required.

**Specifications: Data logger for Net radiometer**

1. Digital Inputs: 4 Frequency Counter Time
2. Analog Inputs: 8 single ended or 3 differential + 2 single ended Voltage Resistance.
3. Accuracy: < 0.05% or better.
4. Operating Temperature:  $-40^{\circ}$  to  $+60^{\circ}\text{C}$ .
5. Data logger Memory: 512 MB or better.
6. Software: Configuration & data download.

Yours faithfully,



(V. R. Mali)  
Scientific Officer Gr- II  
For Director

