

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY  
PASHAN, PUNE-411008**

**(An autonomous Institute under the Ministry of Earth Sciences, Govt. of India)**

**(PS/Tender/04/2013)**

**CORRIGENDUM-I TO TENDER NOTICE**

The date of submission of tender for purchase of "Pyranometer Qty – 02 Nos., Pyrgeometer Qty – 02 Nos., Albedometer Qty – 01 No. & Data Logger Qty – 01 No" published vide even number of Tender Notice is hereby extended **up to 12:00 hrs on 26<sup>th</sup> February 2014** and shall be opened **on same day at 15:00 hrs**. All other terms & condition shall remain unchanged. For details please visit Government's Central Procurement Portal (CPP) <http://www.eprocure.gov.in> as well as this Institute's Website: <http://www.tropmet.res.in>

Sd/-  
Scientific Officer Gr.-I, for Director  
E-mail : vipin@tropmet.res.in

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY**  
**Pashan, Pune – 411 008**

(Enclosure to Enquiry No. PS/128/28/2013/ dated 27.01.2014)

**TECHNICAL SPECIFICATIONS DOCUMENT**

**Radiation instruments for airborne applications**

The following radiation sensors are required for airborne measurements.

**(1) Shortwave radiometer (Pyranometers)**

Spectral range	0.2 to 3.6 $\mu\text{m}$
Sensor sensitivity	$\sim 7$ to $15 \mu\text{V/W/m}^2$
Response time	$\leq 5$ s
Directional error (up to $80^\circ$ with $1000 \text{ W/m}^2$ beam)	$< 5 \text{ W/m}^2$
Temperature dependence of sensitivity	$< 0.5 \%$ ( $-20^\circ\text{C}$ to $+50^\circ\text{C}$ )
Operating temperature range	$- 40^\circ\text{C}$ to $+80^\circ\text{C}$
Maximum solar irradiance	Up to $4000 \text{ W/m}^2$
Field of View	$180^\circ$
Internal temperature sensor	Thermistor based
Ventilation Unit is required for dome cleaning / avoid moisture on the sensor dome.	
Any other accessories like extra cable length	

## (2) Long wave radiometer (Pyrgeometer)

Spectral range	4.5 to 50 $\mu\text{m}$
Sensor sensitivity	$\sim 5$ to $15 \mu\text{V/W/m}^2$
Response time	$< 18$ s
Temperature dependence of sensitivity	$< 1 \%$ ( $-20^\circ\text{C}$ to $+50^\circ\text{C}$ )
Operating temperature range	$-40$ to $+80^\circ\text{C}$
Net irradiance range	$-250$ to $+250 \text{ W/m}^2$
Field of View	$180^\circ$
Internal temperature sensor	Thermistor based
Ventilation Unit is required for dome cleaning / avoid moisture on the sensor dome.	
Any other accessories like extra cable length	

### (3) Albedometer

Spectral range	200 to 3000 nm
Sensor sensitivity (nominal)	$\sim 7 - 15 \mu\text{V}/\text{Wm}^{-2}$
Response time	< 5 sec
Albedo range	0 - 100%
Temperature range	-40 to +80 °C
Maximum solar irradiance	Up to 4000 W/m <sup>2</sup>
Field of view	180°
Data logger for Albedometer	
Any other accessories like extra cable length and boom for projecting the instrument outside.	

#### **(4) Data logger**

Required Data logger with 6 channels to be compatible for 2 pyranometers, 2 pyrgeometers and albedometer for airborne observations.

#### **Other requirements**

Required Certificate saying that they are the direct distributors representing the manufacturers.

**Make** : All the instruments mentioned above should be of same make.

(V. R. Mali)  
Scientific Officer Gr.-I  
for Director

**TECHNICAL COMPLAINE STATEMENT**

The Technical compliance statement is to be submitted completely filled in the below format w.r.t above details duly stamped and signed by the vendor along with technical bid.

<b>SL No.</b>	<b>Complied/Deferred</b>	<b>Details if Deferred</b>	<b>Remarks</b>
1.a			
1.b			
1.c			
1.d			
2.a			
2.b			
2.c			
2.d			
3.a			
3.b			
3.c			
3.d			
4.a			
4.b			
4.c			
4.d			

**Note: Vendors should be quoted for all the four equipments of same make (single make) for compatibility point of view.**

NAME OF THE VENDOR

STAMP AND SIGNATURE

**VENDOR PERFORMANCE STATEMENT FOR SIMILAR  
DEPLOYMENTS IN THE LAST THREE YEARS**

Name of the Firm: \_\_\_\_\_

Pls note that vendors need to enclose supporting documents for the below details including satisfaction report.

Order placed by (full address of the purchaser)	Order No and date	Description and Qty of ordered equipment	Date of completion as per contract	Actual date of completion	Reasons for delay if applicable	Contact details for reference

NAME OF THE VENDOR

STAMP AND SIGNATURE





## INDIAN INSTITUTE OF TROPICAL METEOROLOGY PUNE 411 008

### TERMS & CONDITIONS

ENQUIRY NO: **PS/128/28/2013**

Tender Notice No. **PS/Tender/04/2013**

- 1) The Tenderers are requested to give detailed sealed tender in their own forms in two Bids i.e.  
Part – I Technical Bid.  
Part - II Commercial Bid, both the bids addressed to the Director, Indian Institute of Tropical Meteorology, Dr. Homi Bhabha Road, NCL Post, Pashan, Pune – 411 008, INDIA.
- 2) This tender is not transferable.
- 3) If a request is made to IITM for Tender Documents a sum of **Rs.500/- (Rs. Five Hundred only) (Non-refundable)** has to be paid in the form of Demand Draft drawn in favour of “The Director, Indian Institute of Tropical Meteorology, Pune” **preferably from Nationalized Bank**. Otherwise tender will not be considered.

Tender documents are also available on Institute’s website, bidder can download the same. However, tender fees as mentioned above required to pay along with technical bid.

- 4) Tenders addressed to the Director, Indian Institute of Tropical Meteorology, Pune 411008 are to be submitted for each item in duplicate in double cover, under two bids system. Superscribed with Tender No. **PS/128/28/2013 (Tender Notice No. PS/Tender/04/2013)** for purchase of **“Pyranometer Qty – 02 Nos., Pyrgeometer Qty – 02 Nos., Albedometer Qty - 01 No. & Data Logger Qty – 01 No.”** due on **9th October 2013**.
- 5) You have to submit two separate bids in two separate envelopes and you may keep both the bid envelopes in an envelope for sending to us.

One envelope will contain only the TECHNICAL SPECIFICATIONS of the indented equipment.

Another envelope will contain only the financial bid in which price and any other information, which has financial implications, will only be given.

The main envelope, which will contain both the bids, should be super scribed with our tender enquiry No.**PS/128/28/2013** due on **26<sup>th</sup> February 2014**.

- 6) Please indicate page nos. on your quotation ex. If the quotation is containing 25 Pages, please indicate as 1/25, 2/25, 3/25 -----25/25.
- 7) Cost of the items should be mentioned clearly in the Commercial Offer (Part-II) only.

- 8) Last date for the receipt of completed tender is **up to 12:00 hrs. 26<sup>th</sup> February 2014** & will be opened (Technical Bid only) on the same day **at 15:00 hrs** in the presence of the representatives of the vendors present.
- 9) The tender must be valid for a period of at least **90** days from the date of opening.
- 10) The purpose of certain specific conditions is to get or procure best Equipment / service etc. for IITM. The opinion of Technical Committee shall be guiding factor for Technical short listing.
- 11) Supplier shall finally warrant that all the stores, equipment and components supplied under the SUPPLY ORDER shall be new and of the first Quality according to the specifications and shall be free from all the defects (even concealed fault, deficiency in the design material and workmanship).
- 12) Tender must clearly indicate the features offered unit price, VAT tax, transport, transit-insurance, installation charges. Institute cannot furnish any certificate for exemption or reduction in VAT tax or any other duty/tax. The vendor should mention the price of the equipment and the duties/taxes to be paid such as customs duty/excise duty/VAT taxes etc. separately.
- 13) The complete equipment including operational manuals should be supplied within stipulated period mentioned in the supply order and the vendor should install the equipment within **one month** after the delivery of the equipment.
- 14) As this Institute is exempted from payment of Custom Duty and Excise Duty, exemption certificate will be issued on request.
- 15) The equipments must carry on-site warranty for **One Year** from the date of taking over of the equipments after the acceptance tests. Warranty period will stand extended for a period of total downtime of the equipments.
- 16) The vendor has to furnish a Bank Guarantee to the extent of 10% of the order value from a nationalized bank in the prescribed format valid for the entire period of warranty including extension if any.
- 17) No advance can be paid.
- 18) The **payment terms** shall be as follows:
  - i) 80% payment against delivery.
  - ii) 10% payment after satisfactory installation, and successful completion of acceptance tests and training.
  - iii) 10% payment after execution of Bank Guarantee from a Nationalized Bank and successful completion of acceptance test. The Bank Guarantee will remain valid until the expiry of warranty period including the extensions if any.

- 19)The prices quoted should be firm and irrevocable and not subject to any change whatsoever, even due to increase in cost of raw material components and fluctuation in the foreign exchange rates and excise duty.
- 20)Vendor should arrange appropriate training to the users free of charge, **if required**.
- 21)Indicate the names of the Indian reputed Organizations where you have supplied the similar equipment and may attach the satisfactory performance report of the Personal Computer from user Organization.
- 22)The vendor should have supplied and deployed similar kind of Installation in govt. Institutes like IITM (research and educational). Completion certificate for the same should be enclosed.
- 23)a) If you have supplied identical or similar equipment to other Institutes under Ministry of Earth Sciences and Ministry of Science & Technology, the details of such supplies for the preceding three years should be given together with the prices eventually or finally paid.
- b) Based on the above information IITM will have its option to obtain details of the equipment, their performance, after sales services etc. for evaluation of the tender, directly from the concerned Labs. /Scientists etc.
- 24)The Institute is autonomous scientific research organization under the Ministry of Earth Sciences and is a recognized center for studies leading to M.Sc. and Ph.D. of the University of Pune and various other Universities. As such, all possible concessions / discounts / rebates applicable for educational Institutions may be given.
- 25)The Tenderers / bidders are requested to quote for Educational Institutional Price for equipment, since we are eligible for the same.
- 26)Any upgrade of OS and associated other software during the warranty period should be supplied free of charge.
- 27)The vendor should have appropriate facilities and trained personnel for supply, installation and warranty-maintenance of the equipment to be supplied. Detailed information in this regard may be furnished.
- 28)Kindly attach a of copy of your latest DGS&D, New Delhi registration Certificate under the compulsory Scheme of Ministry of Finance regarding the registration of Indian Agent of foreign supplier wherever it is applicable.
- 29)The Tenderer is required to furnish the Permanent Account Number (PAN) Allotted by the Income Tax Department. If registered with the National Small Industries Corporation, the registration number, purpose of registration and the validity period of registration' etc. should also be provided in Technical Bid for Indian Agents.

30) Vendor should clearly mention the following:

- **Make and model of every item quoted.**
- Delivery period.
- Company profile with a list of those institutes/users should be attached where vendor has supplied the equipments in question in past.
- A letter of AUTHORISED REPRESENTATIVE from the Principal should invariably be attached with quotation
- A copy of latest Income Tax clearance Certificate from Income Tax Department (INDIA)

31) Discount offered should be mentioned clearly in the commercial bid only.

32) This Institute is exempted from paying of Local Body Tax (LBT) under Bombay Regional Municipal Corporation (LBT), 2010 and modified, 2013 Rule No.28 (1) (2).

33) Acceptance tests to be prescribed later will be carried out after installation and the items will be taken over only after successful completion of the acceptance tests.

34) The equipments are required to be installed at **IITM, Pune** and subsequently Training is to be provided to the concerned persons of the Institute, **if required.**

35) The item should be supplied with manuals and the manuals including technical / Electronic drawings / circuit diagrams should be complete in all respects to operate the system without any problem.

36) The Tenderer / bidder has to state in detail the Electrical Power/UPS requirements, floor Space, head room, foundation needed and also to state whether Air-conditioned environment is needed to house the system and to run the tests. i.e. pre-installation facilities required for installation may please be intimated in the technical bid. \*

37) Goods should not be dispatched until the Vendor receives a firm order.

38) The Date and Time of opening for Part-II (Commercial Bid) will be intimated only to pre-qualified and technically acceptable Tenderers / bidders for the item at a later date.

39) **Earnest Money Deposit:**

- a) The Earnest Money Deposit of **Rs. 62,000/- (Rs. Sixty Two Thousand only)** must be paid / sent along with your technical bid in the form of a Demand Draft, Banker cheque or Bank Guarantee (**from a Nationalized Bank only**) drawn in favour of The Director, Indian Institute of Tropical Meteorology, Pune payable at Pune, otherwise your technical & financial bids will not be considered at all. The Earnest Money of successful bidder will be returned only after installation, satisfactory demonstration and on acceptance of the equipment by the user Scientist / HOD as per the terms of our purchase order. If the successful

bidder fails to fulfill the contractual obligations before the due date, he will forfeit the EMD.

The Earnest Money of the unsuccessful bidder whose technical bid has not been found suitable will be returned within **forty five days** after receipt of Technical Committee recommendations.

- b) Those who are registered with Central Purchase Organization (e.g. DGS&D), National Small Industries Corporation or the concerned Ministry / Department need not to furnish EMD along with their bids.
  - c) Though EMD has to be submitted by Demand Draft, Banker's Cheque or Bank Guarantee, we prefer to have Bank Guarantee for easy return to the bidders once a decision is taken by IITM. (Specimen of Bank Guarantee is enclosed at Annexure 'A').
  - d) Tenders not accompanied with Demand Draft / Bank Guarantee towards "Earnest Money Deposit" will summarily be rejected.
- 40) Successful bidder is required to furnish an amount equivalent to 10% of the total order value as a **'Performance Security Deposit'** in the form of Demand Draft / Bank Guarantee (from any Nationalized Bank only) in favour of 'Director, IITM, Pune' within 21 days on receipt of Purchase Order.

Performance Security should remain valid for a period of sixty days beyond the date of completion of all contractual obligation of the supplier including warranty obligation.

41) Part and incomplete tenders are liable to be rejected.

42) Conditional Offers will not be considered.

43) The tenders must be clearly written or typed without any cancellations / corrections or overwriting.

44) **Fax / E-mail / Telegraphic / Telex tenders will not be considered.**

45) IITM will not be responsible:

- a) For delayed / late quotations submitted / sent by Post / Courier etc.
- b) For submission / delivery of quotations at wrong places other than the Office of Director, IITM, Pune – 411 008.

46) Liquidated Damages : If the supplier fails to Supply and Install the system as per specifications mentioned in the order within the due date, the Supplier is liable to pay liquidated damages of one percent value of the Purchase Order awarded, per every week delay subject to a maximum of 10% for every week beyond the due date and such money will be deducted from any money due or which may become due to the supplier.

- 47) In case of any dispute regarding part-shipment, non-compliance of any feature etc., the 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.
- 48) The vendor needs to have a full fledged office, PoC or testing centre to showcase and test the functionality of the ordered equipments in Pune.
- 49) Director reserves the right to reject any or all tenders without assigning any reason.

**Note :** *Technical compliance sheet may please be given in Technical Bid & cost of the item may please be mentioned in Commercial Bid only.*

(V. R. Mali)  
Scientific Officer Gr.-I  
for Director  
**Contact No. :** (020) 25904483 / 210  
**e-mail :** vipin@tropmet.res.in

**BID SECURITY FORM**

Whereas 1 (hereinafter called "the Bidder") has submitted its bid dated (*date of submission of bid*) for the supply of \_\_\_\_\_ (*name and/or description of the goods*)(hereinafter called "the Bid").

KNOW ALL PEOPLE by these presents that WE \_\_\_\_\_ (*name of bank*) of (*name of the country*), having our registered office at (*address of bank*)(hereinafter called "the Bank"), are bound unto (*name of Purchaser*) (hereinafter called "the Purchaser") in the sum of \_\_\_\_\_ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this \_\_\_ day of 20\_\_\_ THE CONDITIONS of this obligation are:

1. If the Bidder withdraws it's bid during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of it's bid by the Purchaser during the period of bid validity:
  - a) fails or refuses to execute the Contract Form if required; or
  - b) fails or refuses to furnish the performance security, in accordance with the Instruction to Bidders.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, Without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee shall remain in force up to forty five days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the Bank)  
Name of Bidder.