

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

File No.PS/128/13/2009

TECHNICAL SPECIFICATIONS for Automatic Weather Station Qty – 10 Nos. :

Data Logger

Reporting Units	:	All measurements in Metric
Operating Power	:	10-16 VDC
Power Consumption	:	60mA maximum
Serial port	:	9 pins d-sub connector, selectable baud rate, flow control
Memory	:	640KB RAM or More (higher version) nonvolatile (45 days at 15
minute intervals	:	minute intervals with 6 sensors). Upgradable RAM.
Operating Temperature	:	Transducer : -40° to 60°C
		Data acquisition module : -40° to 60°C
Time keeping format	:	MM/DD and HH/MM
		Accuracy \pm 30 seconds/month

Sensors :

- 1) **Wind Speed**

Range	:	0 to 125 mph
Resolution	:	> 0.1 mph
Accuracy	:	\pm 1mph
- 2) **Wind Direction**

Range	:	0 to 360°
Resolution	:	> 0.1 %
Accuracy	:	\pm 30%
Starting threshold	:	1.2 mph
- 3) **Temperature**

Range	:	-40° to 60°C
Resolution	:	>1°F
Accuracy	:	\pm 1°F
- 4) **Relative Humidity**

Range	:	0 to 100% RH
Accuracy	:	\pm 3% or less
- 5) **Pyrradiometer**

Spectral Sensitivity	:	0.3 to >30 μ m
Azimuth response	:	<5% of the value
Cosine response	:	<5% of the value, zenith angle 0° to 80°
Response time	:	<25sec (95%), <45 sec (99%)
Measuring range	:	0-1500 Wm ²
Resolution	:	<1 Wm ²
Stability	:	<3% per year (temporary operation)
Temperature effect	:	<2% of the value between -20°C to + 40°C
Linearity	:	<2% in the range 0.5-1300 Wm ²
Impedance	:	About 190 ohm/receiver plate
Output	:	About 15 μ V/Wm ²
Ambient Temperature	:	-40°C to + 60°C
- 6) **Rain Gauge**

Resolution	:	0.02 inches/tip;	Accuracy	:	\pm 4%;
Max rate	:	Unlimited;	Carrying Case	:	Size : 20x17x18
Tripod	:	Height : 36" (with mast 8')			
- 7) **CMC**

Total 2 years of comprehensive maintenance contract is required (which includes parts & service). Engineer should attend the call within 2 days as it is mission mode project & within 24 hrs during Oct 01-20,2010.

(Dr. T. Venugopal)

Incharge, Purchase & Stores Section
for Director

INDIAN INSTITUTE OF TROPICAL METEOROLOGY PUNE 411 008

TERMS & CONDITIONS

ENQUIRY NO: **PS/128/13/2009**

- 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.300 (Rs. Three 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”. In case the bidders download the Tender Documents from the website of the Institute, the document fee Rs.300 (Rs. Three Hundred only) in the form of Demand Draft is required to be enclosed while submitting the tender. Otherwise tender will not be considered.**
- 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/128/13/2009** for purchase of “Automatic Weather Station” – Qty 10 Nos. due on **29th July 2009**.
- 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/128/13/2009** due on **29th July 2009**.
- 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. The optional and any other essential items / accessories required for the maintenance of the equipment for the next three years should also be specified in the offer separately.
- 8) Last date for the receipt of completed tender is up to 17:00 hrs. on **29th July 2009**. Tenders will be opened at 15:00 hrs. on **30th July 2009** 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 test the equipment within **ten days** at IITM, Pune after the delivery of the equipment & should install & commission then on site as per the instructions from authorized person of Institute.
- 14) i) As this Institute is exempted from payment of Custom Duty and Excise Duty, exemption certificate will be issued on request.
- ii) The Institute is exempted from payment of Octroi Duty. Necessary certificate will be issued on request, if required.
- 15) The equipment must carry on-site warranty for **Two Years** from the date of taking over of the equipment after the acceptance tests. The supplier should provide comprehensive maintenance contract (CMC) for total period of 2 years which includes free on-site warranty for initial one year as general practice.
- 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, commissioning 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.
- 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 equipment from user Organization.
- 22) 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.
- 23) 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.
- 24) Any upgrade of OS and associated other software during the warranty period should be supplied free of charge.*
- 25) The vendor should have appropriate facilities and trained personnel for supply, installation, commissioning and warranty-maintenance of the equipment to be supplied. Detailed information in this regard may be furnished.
- 26) Kindly attach a 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.
- 27) 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.
- 28) 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)

- 29) Discount offered should be mentioned clearly in the commercial bid only.
- 30) The Tenderers are requested to quote for Educational Institutional Price for Equipment and Software, since we are eligible for the same.
- 31) 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.
- 32) The Equipments are required to be supplied & tested at IITM, Pune & then should be installed at **different locations in Delhi within 50-80km area in & around Delhi (NCR)** and subsequently Training is to be provided to the concerned persons of the Institute. The transportation charges from Pune to Delhi will be borne by IITM, Pune.
- 33) 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.
- 34) The Tenderer 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.
- 35) Goods should not be dispatched until the Vendor receives a firm order.
- 36) The Date and Time of opening for Part-II (Commercial Bid) will be intimated only to pre-qualified and technically acceptable Tenderers for the item at a later date.
- 37) **Earnest Money Deposit:**
- a) The Earnest Money Deposit of **Rs.50,000/- (Rs. Fifty 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, commissioning, and 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 15 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 I Bank Guarantee towards "Earnest Money Deposit" will summarily be rejected.
- 38) Part and incomplete tenders are liable to be rejected.
- 39) Conditional Offers will not be considered.
- 40) The tenders must be clearly written or typed without any cancellations / corrections or overwriting.
- 41) **Fax / E-mail / Telegraphic / Telex tenders will not be considered.**
- 42) 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
- 43) If the supplier fails to Supply, Install and Commission 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.
- 44) 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.
- 45) Director reserves the right to reject any or all tenders without assigning any reason.
- 46) Last Date and Time for receipt of Tenders: **Upto 17:00 hrs. on 29th July 2009.**
- 47) Date and Time of opening of Tenders: **At 15:00 hrs. on 30th July 2009.** (Part - I Technical Bid only)

(Dr. T. Venugopal)
Incharge, Purchase & Stores Section
for Director
Email : tvgopal@tropmet.res.in
Tel : **020-25904200 Ext.227**

(S. R. Nirgude)
Senior Technical Officer-II
for Director
Email: nirgude@tropmet.res.in
Tel: **020-25904200 Ext.242**

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 one year 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.