

**INDIAN INSTITUTE OF TROPICAL METEOROLOGY**  
**PASHAN, PUNE-411008 (INDIA)**  
*(An Autonomous Body under the Ministry of Earth Sciences, Govt. of India)*

**TENDER NO.: PS/TENDER/19/2011**

**GLOBAL TENDER NOTICE**

Director, Indian Institute of Tropical Meteorology, Dr.Homi Bhabha Road, Pashan, Pune- 411 008 (India) invites separate sealed tenders (Part-I – Technical Bid, Part-II – Commercial Bid) in separate sealed covers from Manufacturers / Suppliers and their accredited selling agents for the Supply, Commissioning and Installation and Satisfactory Demonstration of the following items:

**“LASER ISOTOPS ANALYZERS FOR WATER / WATER VAPOR AND CO2 ALONG WITH ACCESSORIES – QTY 1 SET”**

Last date of receipt of Tender at IITM, Pune : **09 March 2012 at 12:00 hrs.**  
Opening of Tenders (Technical Bids only) : **09 March 2012 at 15:00 hrs.**

Tender documents with specifications can be obtained from Purchase and Stores Section of the Institute.

The Institute reserves the right to reject any or all tenders without assigning any reason therefore. For further details please visit our Website: [www.tropmet.res.in](http://www.tropmet.res.in)

**Senior Technical Officer-II, for Director**  
Email: [vipin@tropmet.res.in](mailto:vipin@tropmet.res.in)

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

**File No.PS/125/150/2011**

**TENDER No.: PS/TENDER/19/2011**

**Specifications for the “LASER ISOTOPS ANALYZERS FOR WATER / WATER VAPOR AND CO<sub>2</sub> ALONG WITH ACCESSORIES – QTY 1 SET”**

**A. Laser based liquid water & water vapor Isotope Analyzer – Quantity: 01**

1. The analyzer must operate using any of the following technique, such as CRDS (Cavity Ring Down Spectroscopy) or OA-ICOS-CRDS or WS-CRDS or equivalent with latest features.
2. The system is capable of simultaneous measurement of the isotopic ratios  $\delta^{18}\text{O}$  ( $^{18}\text{O}/^{16}\text{O}$ ) and  $\delta\text{D}$  (D/H) in liquid water and water vapor samples.
3. The system is capable of analyzing more than 100 unknown liquid water samples per day with 6 injections per sample - automatically with an auto sampler.
4. The instrument is capable to analyze almost all type of waters like fresh water & saline water with required precision and accuracy.
5. The instrument should be capable of on line measuring water vapor isotopes  $\delta^{18}\text{O}$  ( $^{18}\text{O}/^{16}\text{O}$ ) and  $\delta\text{D}$  ( $^2\text{H}/^1\text{H}$ ) in field from different points (16 port distribution manifold). The equipment should also have capability of measuring standards in between automatically for calibration purposes.
6. Required accessories for automatic water Sampling System to enable autonomous isotopic measurements from several water sources in the field.
7. Water Isotope Analyzer should record in real time isotopic ( $\delta^{18}\text{O}$ ,  $\delta\text{D}$ ) measurements of continuously flowing water from streams, groundwater, precipitation, and other sources, without user intervention.
8. The instrument must be capable for selecting measurements either in high throughput mode or in high-precision mode.
9. The instrument should have Water vapor Standards delivery module which has to provide reliable water vapor calibrations for weeks or months.
10. The analyzer is required to have proper documentation/certification for guaranteed, tested & certified accuracy and drift specifications (if any) for both  $\delta^{18}\text{O}$  and  $\delta\text{D}$ .
11. The analyzer must be capable to analyze sample with minimum sample volume, and memory effect should be minimum.
12. The analyzer should be capable for future adaptability for additional applications.
13. The software should be capable of
  - a) Applying calibration standard measurements made during the sample run
  - b) graphically display all results, and
  - c) fully diagnose instrument operation.
  - d) detecting spectral interferences in measured samples.
14. Consumables like Vials, Septas, Syringes, and Filters etc. for smooth operation of the equipment for 10,000 samples

## **Performance Specifications:**

### **Repeatability/Precision:**

For liquid water:

$\delta^{18}\text{O} \leq \pm 0.05\text{‰}$

$\delta\text{D} < \pm 0.3\text{‰}$  or better

For water vapor:

$\delta^{18}\text{O} < 0.2\text{‰}$

$\delta\text{D} < 1.0\text{‰}$  or better

Maximum drift: (15 min average at STP over 24 hours)

$\delta^{18}\text{O}$ : 0.2 ‰;  $\delta\text{D}$ : 1‰ or better

Measurement range for water vapor: 500 to 50000 ppm

### **Operating Requirements:**

Ambient Humidity: 0-100% RH (non-condensing) Non condensing

Operating Temperature: 0 to 45 °C

Sample temperature: 0 to 45 °C

Salinity range: up to 10%

Measurement rate: less than 1 hz.

Power requirements: 220 ± 30V 50 Hz, Single phase AC.

Generated data should be MS Windows compatible.

System Outputs: Digital (RS 232), Ethernet, USB

Data Storage: Internal Hard drive; Display 12" color TFT, Inlet/Outlets Swagelok fittings.

### **Other requirements:**

The manufacturer should supply all necessary accessories including different Secondary Laboratory standards (set of minimum 5 different standards 20 ml each having approximate ranges between +20‰ to -400‰ for  $\delta\text{D}$  and +5‰ to -50‰ for  $\delta^{18}\text{O}$ ) etc. It should be clearly mentioned how these secondary standards were calibrated, against which reference materials and by which Lab. Statistics of data should also be provided.

## **B. Laser based CO<sub>2</sub> Isotope Analyzer – Quantity: 01**

1. The analyzer must operate using any of the following technique, such as CRDS (Cavity Ring Down Spectroscopy) or OA-ICOS-CRDS or WS-CRDS or equivalent with latest features.
2. The system is capable of simultaneous measurement of  $\delta^{13}\text{C}$ ,  $\delta^{18}\text{O}$  and mole fraction of CO<sub>2</sub> in CO<sub>2</sub> samples.
3. Continuous flow measurements over a rated range of 250-2500 (or higher) ppmv CO<sub>2</sub> in air.
4. Simultaneous measurements of water vapor enable correction of isotopic ratios and CO<sub>2</sub> mole fraction to dry values.
5. The system should be capable of Automatic determination of  $\delta^{13}\text{C}$ , and CO<sub>2</sub> on dry mol basis – the spectroscopic analysis should correct for water vapor dilution and line broadening effects
6. Syringe injection port to provide capability for discrete sample measurements via syringe injection ( up to 100% CO<sub>2</sub>)
7. Multiport inlet unit manifold should be capable of sourcing sample from up to 16 separate sources. Driver software enabling fully integrated, programmable selection from all of the external sources.
8. The instrument should be free from interfering effects from other gases, such as methane, hydrocarbons etc.
9. The Instrument should be able to measure stand alone samples via manual injection using syringe (off-line collection).
10. The analyzer is required to have proper documentation/certification for guaranteed, tested & certified accuracy and drift specifications (if any) for  $\delta^{13}\text{C}$ .
11. The post analysis software should graphically display all results, and fully diagnose instrument operation. Generated data should be MS Windows compatible
12. Multi-channel data logging system for synchronizing and recording serial (RS-232) outputs from the analyzer and other devices (e.g., GPS, anemometers)
13. External dynamic dilution system to allow measurements of higher concentration samples by automatically diluting the sample with zero air (increase the upper measurement range by up to 100 times
14. The instrument should have the capability of measuring elevated CO<sub>2</sub> Levels i.e. extending upper range by 100x through automated dilution
15. Calibration reference gas for CO<sub>2</sub> concentration/isotope ratio measurement from NOAA ESRL should be included. Values of CO<sub>2</sub> concentration and isotopic ratios, that is  $\delta^{13}\text{C}$  and  $\delta^{18}\text{O}$  (similar to that of air) should be quoted and original certificate to be provided.

## **Performance Specifications**

### **Maximum Drift**

(15-minute average at STP over 24 hours)  
 $\delta^{13}\text{C} \leq 1\text{‰}$  or better

### **Measurement Range**

CO<sub>2</sub>: 200-1000 ppm (aprox.)

### **Operational Range**

CO<sub>2</sub>: 0-2,000 ppm (to 100% with Dynamic Dilution System)

H<sub>2</sub>O: 0-70,000 ppm (non-condensing)

### **Repeatability/Precision**

$\delta^{13}\text{C} \leq 0.10\text{‰}$   
 $\delta^{18}\text{O} \leq 0.08\text{‰}$

for pCO<sub>2</sub>: <0.05 ppm or better  
operating range: 350-450 ppm

### **Response Time (flow time through measurement cell)**

≤ 5 seconds (with standard vacuum pump)

## **Operating Requirements**

### **Ambient Humidity**

0-100% RH non-condensing

### **Operating Temperature**

10-35 °C

### **Sampling Conditions:**

Sample Temperature: 0 – 50 °C  
Operating Temperature: 10 – 40 °C  
Ambient Humidity: non-condensing

### **Configuration:**

Data Storage: Internal hard drive; Display: 12" color TFT; Inlet/outlet: Swagelok fittings;  
Output: Digital (RS232), Ethernet, USB

Power requirements: 220 ± 30V 50 Hz, Single phase AC.

### **Common specifications/technical requirements for both the water and CO2 analyzer:**

- All software upgrades during the warranty period should be provided without any additional cost.
- All the quoted features & specifications should essentially be supported by printed catalogs/literature/pamphlets.
- Compliance statement should be enclosed along with the offer
- Documentary proof/catalogue of different modules /published technical notes should be provided supporting the quoted specifications and applications.
- The Instrument(s) should be upgradable for additional future requirements.
- If the quoted instrument is capable of measuring any additional parameter(s) not mentioned in this document should be clearly mentioned along with their analytical parameters, such as precision etc.
- Softcopies (whenever applicable) and hard copies of instrument manuals, service manuals & certificates for analytical capabilities should be provided.
- External pump, filters, Teflon tubing (~50 meter for gas inlet from field tower), fittings, CO<sub>2</sub> syringe injection port for off-line discrete gas injector as necessary for either analyzer.
- List of important spare parts, consumables and accessories with their part number and costing should be provided separately for each analyzer.
- The company should give an undertaking that the necessary components, spares, consumables or any other item required for the proper working of the equipment would be supplied for at least 5 years from the date of installation of the equipment.
- Branded Online UPS, laptop and inkjet printers separately for both the analyzers should be quoted. (Configuration- Laptop: Intel Core i5 Processor, 14-15" TFT color display, 4GB RAM, 500GB SATA Hard Disk, DVD Writer, 4MB Cache, HD Graphics, USB 2.0, Li-ion battery, Genuine Windows-7 Professional OS, onsite one year warranty; Printer: Inkjet single function color printer (HP Officejet Pro 8000 or equivalent). Online UPS: 1 kVA, upto 8 hr power backup at full load.
- Successful commissioning, installation, demonstration of use, troubleshooting and maintenance of specific components (such as mirror) etc at IITM, Pune within two weeks of delivery.
- Successful demonstration of instrument performance in terms of precision of isotope ratios, mole fraction as mentioned in this document/compliance certificate mentioned by the vendor.
- Successful demonstration of fully resolved spectral features as mentioned in the literature.

### **Warranty, AMC Services & Training & other specific requirements (apply for both the analyzers):**

- Warranty: comprehensive warranty for three years. It should include minimum 02 preventive visits per year or all breakdown calls. Instrument down time should not be more than two weeks in normal circumstances. In case of delay extra down time will be added to the warranty period.
- On site basic training of 5 working days on operational aspect of instrument, usage of software for sample analysis at IITM Pune and two weeks advance training on application aspects, maintenance, trouble shooting etc. for two persons at the principal's factory/application lab/training centre; without any additional cost.
- It is required to supply supporting data and proper documentation (worksheets, test reports, credential etc) along with a compliance statement.
- User list should be provided with contact information.

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

**GENERAL TERMS & CONDITIONS**

**ENQUIRY NO: PS/125/150/2011/**

**TENDER NOTICE No.: PS/TENDER/19/201**

- 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) 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, maintenance, AMC, CMC, OMC etc. and any other information, which has financial implications, will only be given.

- 3) 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.
- 4) The main envelope, which will contain both the bids, should be super scribed with our tender enquiry No.**PS/125/150/2011** due on **09 March 2012**.
- 5) The technical bids will be opened on the specified due date in the presence of tenderers who wish to be present & the financial bids of only those bidders will be opened whose technical bid is found suitable by us.
- 6) 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.

Last Date and Time for receipt of Tenders: **Upto 12.00 hrs. on 09 March 2012.**

Date and Time of opening of Tenders: **At 15:00 hrs. on 09 March 2012.**

(Part-I Technical Bids only)

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/125/150/2011** for purchase of **“LASER ISOTOPS ANALYZERS FOR WATER / WATER VAPOR AND CO2 ALONG WITH ACCESSORIES – QTY 1 SET”** due on **09 March 2012**.

- 7) This tender is **not transferable**.
- 8) **Fax / E-mail / Telegraphic / Telex tenders will not be considered**

- 9) If a request is made to IITM, Pune for Tender Documents, a sum of **Rs.1,000.00 (Rs. One Thousand only)** for indigenous suppliers / Indian agents (Non-refundable) and **USD 50.00 (USD Fifty only)** for foreign suppliers (Non- refundable) has to be paid in the form of Demand Draft only drawn in favour of **The Director, Indian Institute of Tropical Meteorology, Pune** enclosed in Technical Bid only. In case the bidders download the Tender Documents from the website of this Institute, **no tender document fee is require to be submitted.**
- 10)a) The Equipments are required for **IITM, Pune** and to be installed in and around **PUNE (INDIA) at different locations** and subsequently Training is to be provided to the concerned scientists / personnels of IITM, Pune.  
b) Packing, Forwarding, Freight & Insurance and Commissioning Charges, if any extra may be quoted separately in Commercial Bid.  
c) In case if your quote is FOR/FOB basis, estimated Insurance coverage charges may please be indicated.  
d) CIF, Mumbai value both by Airfreight.  
e) Octroi Payment if any, the same may please be shown separately.
- 11) Cost of the items should be mentioned clearly in the Commercial Bid (Part-II) only. The optional and any other essential items / accessories required for the maintenance of the equipment for the next five years should also be specified in the offer separately.
- 12) In case of foreign quote, the Principal supplier should clearly indicate the address of the Indian Agent and percentage (%) of Agency Commission payable if any, to be paid to the Indian Agent in Indian Currency. If Agency Commission is not applicable, the same may kindly be mentioned clearly in the offer.
- 13) Percentage & amount of Indian Agency commission payable in Indian currency after the receipt of consignment in good condition at our Stores & satisfactory installation and commissioning of the ordered equipment on submission of copy of DGS&D registration wherever it is applicable.
- 14) 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.
- 15)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.
- 16) All the Bank Charges inside and outside India, including opening of LC, communication, confirmation, amendments etc., if any to Beneficiary's Account only. This may please be noted.**
- 17) Details of services rendered by you as well as after-sales services offered by you are to be made clear in the tender.



- 18)The Tenderer's conditions printed on the tender or otherwise sent along with the tender shall not be binding on IITM.
- 19)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.
- 20)**Delivery Period:** As time is the essence of the contract, Delivery period mentioned in the Purchase Order should be strictly adhered to.
- 21)Details regarding terms of payment including period of warranty. However we prefer to release the payment on BILL Basis (excluding Indian Agency Commission) after receipt of consignment in good condition and satisfactory installation, and commissioning thereof. 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. However, the detailed payment for Sight Draft / Letter of Credit is mentioned at clause No. **30 (b), (c) & (d)** of this tender terms and conditions.
- 22)Supply means "Supply, Installation, Commissioning and satisfactory demonstration of the whole system and training". If any charges extra for Installation, Commissioning and training, the same should be specified in the commercial offer.
- 23)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.
- 24)a) 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.
- b) A copy of latest Income Tax Clearance Certificate from Income Tax Department (INDIA) for Indian Agents.
- 25)In case of foreign quote, the address of Principal's / Manufacturer's and their Banker's details should be furnished.
- 26)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.
- 27)The import license is covered under OGL policy of 2009-2014.
- 28)a) In case of Indigenous Items the offer should contain the Basic Price and percentage of Excise Duty should be shown separately, since IITM, Pune is exempted from payment of Excise duty vide Govt. Notification No.10/97-Central Excise dated 15t March, 1997.

- b) IITM is exempted from payment of Customs Duty vide Govt. Notification No.51/96-Customs dated 23<sup>rd</sup> July, 1996. However as per the Govt. of India further notification No.24/2002-Customs dated 15<sup>th</sup> March, 2002 and notification No.19/2006-Customs' dt. 01.03.2006 Customs Duty is levied on all imports meant for IITM. Since the suppliers are requested to quote only on FOB basis, applicable freight, insurance and customs duty to R&D Institutions will be borne by IITM.
- 29) Tender must clearly indicate the features offered unit price, VAT tax, transport, transit insurance, installation charges. Institute cannot furnish any concessional certificate for exemption or reduction in VAT tax or any other duty / tax except mentioned above at 28 a) and b). 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.
- 30) a) No advance can be paid.
- b) **PAYMENT: 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.
- 31) 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.
- 32) 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.

- 33) **INSTALLATION:** Bidder shall be responsible for installation / demonstration wherever applicable and for after sales service during the warranty and thereafter.
- 34) 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.
- 35) The tenders must be clearly written or typed without any cancellations / corrections or overwriting.
- 36) The tenders will be received in the Institute till **09 March 2012** up to **12:00 hrs.** and shall be opened on **09 March 2012** at **15:00 hrs.** in presence of the tenderers or their authorized agents who wish to be present.
- 37) 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,
- 38) In case of Foreign Quote, the mode of dispatch should be by Air Post Parcel/Ocean Freight/Air Freight (By Air India Freight) and on Freight to-pay basis only. The approximate dimensions of the packages and weight of consignment are to be indicated.
- 39) The makes / brand and name and address of the manufacturer, Country of Origin, Country of Shipment and currency in which rates are quoted are to be mentioned.
- 40) The Technical Bid should accompany with complete specification, Manufacturer's name, address and relevant Technical Literature/Brochures with Warranty Terms.
- 41) The payment of local currency portion shall be payable in equivalent Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.
- 42) The tender / quotation / offer submitted by you should be valid for a minimum period of **One Hundred Eighty (180) days** from the date of opening the tender.
- 43) The quotation should be only in Indian Rupees for indigenous items. In case of foreign quote, the vendors may quote their rates in, Indian Rupees as well as in Foreign Currency.
- 44) The bidder who submits the tender on behalf of their principals should produce documentary evidence in support of their authority to quote or submit proforma invoice of their principals.
- 45) Installation demonstration to be arranged by the supplier free of cost and the same is to be done within 15 days of the arrival of the equipment at site after site readiness.
- 46) IITM will not provide any accommodation/transportation for the Engineers/ Representatives for attending Installation, Commissioning and Demonstration Work. It is the absolute responsibility of the Principal Supplier/Indian Agent to make their own arrangements.

**47) WARRANTY/GUARANTEE:**

- (a) Please see the complete detail in **Page No.6** of the specifications of tender document.
  - (b) The equipment should be guaranteed for trouble free performance during warranty period after installation. Supplier shall finally warrant that all the stores, equipment and components supplied under the ORDER shall be new and of the first quality according to the specifications and shall be free from the defects (even concealed fault, deficiency in the design material and workmanship). The defects, if any, during the guarantee period are to be rectified free of charge by arranging free replacement wherever necessary. Further, the technical specifications and requirements may also be verified.
  - (c) Instrument should remain operational at least 90% of the time in a year and should not remain non-functional continuously for more than **Two weeks**. In case of non-compliance a penalty of 2-5% of the order value amount or the Warranty period will be extended proportionately. The instrument should be commissioned, regularized and operational after the order is executed without any additional facility and cost to IITM excepting the infrastructure which includes well furnished laboratory space with 230V standard Indian power supply. **Warranty period will stand extended for a period of total downtime of the equipment.**
  - (d) Kindly mention the charges for Annual Maintenance Contract (AMC) / Comprehensive Maintenance Contract (CMC) separately in **commercial bid** (for Post Warranty / Extended Warranty period).
- 48) Details of onsite warranty, agency that shall maintain during warranty. In case of foreign quote, the Indian Agent who shall maintain during warranty an. After warranty period (post warranty) who will maintain equipment / instrument. Indicate the name of Firm, address, contact person, phone no. And fax no. etc in your technical bid.
- 49) The supply of spare parts is to be guaranteed at least for a period of 10 years after the supply of the equipment.
- 50) Please mention that during warranty period who will maintain system/ equipment / instrument. Indicate the name of firm, address, contact person, phone no. and fax no. etc in your technical bid.
- 51) After successful installation what will be the minimum down time of equipment/instrument in case of breakdown. If the identified firm or person fails to put the system into working condition what is the further alternative course of action suggested by you to adhere to minimum down time.
- 52) No sub-contracting will be allowed for installation or maintaining system/ equipment / instrument during or after warranty period.
- 53) You have to quote rates for AMC, if any, only in commercial bid.
- 54) Any upgrade in Operating System (OS) and associated other software during the warranty period should be supplied free of charge.
- 55) Discount offered should be mentioned clearly in the commercial bid only.

**56)The Tenderers are requested to quote for Educational Institutional Prices for Equipment and Software, since we are eligible for the same.**

57)This Institute is an autonomous scientific research organization under the Ministry of Earth Sciences and is a recognized centre 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.

58)a) The Earnest Money Deposit of **Rs.2,40,000.00 (Rs. Two Lakhs Forty 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 Indian 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, 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.

59)a) Tenders, which are submitted without following the Two-Bid Offer System, will summarily be rejected.

b) Unsigned Tenders will also be rejected.

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

60)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.

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

62)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.

- 63) Firms which have already supplied similar equipment to IITM and have not completed required installation / commissioning / after sales service / warranty replacements etc. such firms' offers will not be considered for further evaluation and no enquiries thereafter will be entertained.
- 64) In the event the Manufacturer / Supplier proposes for amalgamation, acquisition or sale of its business to any firm during the contract period, the Buyer/Successor of the Principal Company are liable for execution of the contract and also fulfillment of contractual obligations i.e. supply, installation, commissioning, warranty, maintenance/replacement of spares accessories etc. with the same cost / ordered value while submitting your bid, you may confirm this condition.
- 65) Conditional Offers will not be considered.
- 66) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Pune, India only.
- 67) The Director, Indian Institute of Tropical Meteorology, Pune 411 008, India reserves the right to accept any tender in full or in part or to reject the lowest or any or all tenders without assigning any reason.
- 68) 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.
- 69) Last Date and Time for receipt of Tenders: **Up to 12.00 hrs. on 09 March 2012.**
- 70) Date and Time of opening of Tenders: **At 15:00 hrs. on 09 March 2012.**  
(Part - I Technical Bid only)

(V. R. MALI)  
Senior Technical Officer-II  
For Director  
**Email: vipin@tropmet.res.in**  
**Tel: ++91-20-25894483**

## 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.