

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

**CORRIGENDUM TO GLOBAL TENDER NOTICE**

**Tender Notice No. PS/TENDER/05/2014**

The date of submission of tender for “Inlets, Dryer and Calibration Equipments for Aerosol Measurements” – Qty 01 Set published vide Global Tender Notice No. PS/TENDER/05/2014 is hereby extended up to 12:00 hrs on 03 September 2014 and shall be opened on same day at 1500 hrs. Other terms & conditions shall remain unchanged. Please visit our website for details [www.tropmet.res.in](http://www.tropmet.res.in) & CPP Portal: [www.eprocure.gov.in](http://www.eprocure.gov.in)

Assistant Manager, For Director  
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**INDIAN INSTITUTE OF TROPICAL METEOROLOGY,  
PASHAN, PUNE – 411 008, INDIA**

**File No.PS/125/88/2014**

**TENDER No.: PS/TENDER/05/2014**

**Specifications of “Inlets, Dryer and Calibration Equipments for Aerosol Measurements” – 01 SET**

**Specifications for the inlets, drier and calibration units for WMO standard aerosol measurements**

IITM requires the following inlets, dryers and customized SMPS and HTDMA for longtime scientific quality aerosol measurements at High Altitude Cloud Physics Laboratory (HACPL), Mahabaleshwar. It also requires a customized calibration setup for classifying aerosol some spare DMAs and CPCs along with some accessories as mentioned in this document for calibrating these instruments.

**1. Description of the Automatic Inlet Dryer (for HACPL)**

|                     |   |
|---------------------|---|
| Dryer Type          | Four column diffusion dryer, while two columns are used for drying, the other two are generated, and vice versa. The operation should be automatic with computer controlled program.            |
| Regeneration        | Automatic with threshold RH, equipped with T, RH and flow sensors to decide switch over between columns. Regeneration should be done with pressurized air of dew point temperature -20 to -40°C |
| Control             | Computer controlled.  |
| Dimension           | Not exceeding 2.5 meter height and 1 meter width. Should follow GAW guidelines to minimize tubing/sampling loss.  |
| Certification       | WMO-GAW   |
| Operating condition | During time periods with dew point temperatures above 10°C  |
| Other conditions    | Supplier should provide all necessary connectors, tubings and any other accessories. Should be customized with necessary flow splitters/manifolds to supply air samples to all the instruments. |

**2. Description of the Whole Air Inlet (for HACPL)**

|                         |  |
|-------------------------|--|
| Inlet Type              | Heated whole air inlet with snow/rain protection. All cloud droplet (< 20 µm) and aerosol particles should be collected .  |
| Wind conditions         | Should be suitable to operate at Mahabaleshwar in all seasons. (up to 20 m/s)  |
| Certification           | Should have WMO-GAW certification  |
| Environmental condition | Frequent cloudy conditions. Suitable material (WMO-GAW recommended) should be used.  |
| Tubing                  | Should be as per WMO-GAW guidelines.<br>Laminar flow to be maintained.<br>Any customization needed for connecting the inlet – dryer – instrument should be supplied. |

### 3. Description of the interstitial Inlet (for HACPL)

|                          |   |
|--------------------------|---|
| Inlet Type               | Interstitial Inlet. Should remove particles above 5 µm diameter.  |
| Wind conditions          | Should be suitable to operate at Mahabaleshwar in all seasons. Wind data for each season will be provided on request.     |
| Environmental condition  | Highly humid conditions. Suitable material (WMO-GAW recommended) should be used.  |
| Tubing and Flow splitter | Laminar flow to be maintained. Any customization needed for connecting the inlet – dryer – instrument should be supplied. |

### 4. Condensation Particle Counter (CPC)

**This ultrafine CPC will be used to measure total particle number concentration at HACPL.**

It should be able to measure number concentration up to  $10^5$  particles/cm<sup>3</sup> with a minimum detection size limit of 3 nm, and it should be butanol-based

### 5. Calibration set-up for producing quasi monodispers aerosols

This unit will be used to select particle based on DMA. With additional CPC, the system should be able to measure the particle number concentration of the monodisperse aerosol. Further, it should supply quasi monodisperse aerosols to calibrate instruments.

The unit should contain:

- DMA size range 10-800 nm size range (closed-loop set-up)
- HV power supply
- CPC, lower detection limit 10 nm
- Sheath air flow adjustable from 5-115 l/min
- Suitable connectors, splitters, manifolds should be supplied
- LabView-based size-selection programs:

#### **Further requirements:**

- Dry particle-free air for Nafion dryers
- Bipolar Diffusion Charger

### 6. Description of the Mobility Particle Size spectrometers (SMPS) for HACPL

The mobility size spectrometer is built to ensure high quality measurements of the atmospheric aerosol particles with minimal maintenance. The SMPS should be designed to work for laboratory and long-term atmospheric measurements. It should include elements to monitor all requested systems parameters for a traceable data quality. The SMPS is to be calibrated against the reference mobility size spectrometer of the WMO-GAW standard. Customization and integration should be done with IITM scientist involvement.

It is a must to ensure comparability against the reference SMPS smaller than 10% in the size range from 20-200 nm

## **Technical description:**

### **DMA:**

- 10-800 nm

### **Sheath air:**

- PID controlled volume flow rate (calibrated mass flow meter, blower)
- Scientific measurement quality Nafion
- Measurement of flow rate
- Heat exchanger
- Measurement of T, RH

### **Aerosol flow:**

- Nafion dryer
- Measurement of flow rate
- Measurement of RH, T, p

### **Hardware and Software:**

- LabView-based SMPS program
- Laptop-based on Windows 7
- External keyboard, and flat screen  
Free software upgrade in future
- Manual and instruction of personnel
- Data evaluation programs in LabView for atmospheric measurement data

### **Condensation Particle Counter: compatible and more accurate one**

- CPC
  - o lower detection limit approximately 10 nm
  - o flow rate 1 l/min
  - o Number concentration up to 20,000 cm<sup>-3</sup>

### **Further requirements:**

- Dry particle-free air for Nafion dryers
- Bipolar Diffusion Charger

## **7. Description of the HTDMA**

- Hygroscopicity Tandem Differential Analyzer is to be built to ensure high quality measurements of the atmospheric aerosol particles with minimum maintenance.
- This HTDMA must be designed for laboratory and long-term atmospheric measurements
- It should include elements to monitor all requested systems parameters for a traceable data quality. Needs deeper instructions to understand the principle, operation and data evaluation
- The H-TDMA should fulfill the requirements of the EUSAAR/ACTRIS standards.

## **Technical description:**

### **First DMA:**

#### **DMA: to select a quasi monodisperse particle fraction**

- Size range 10-800nm

#### **Aerosol flow:**

- Nafion dryer
- Measurement of flow rate
- Measurement of RH, T, p

#### **Sheath air: closed loop**

- PID controlled volume flow rate (calibrated mass flow meter, blower)
- Measurement of flow rate
- Heat exchanger
- Measurement of T, RH

#### **Particle Counter**

- o CPC
- o lower detection limit approximately 10 nm
- o flow rate 1 l/min
- o Number concentration up to 20,000 cm<sup>-3</sup>

### **Second DMA**

#### **DMA: to measure humidified size spectrum**

- 10-800nm

#### **Aerosol humidifier:**

- Nafion humidifier
- 25-90% RH

#### **Aerosol flow:**

- Measurement of flow rate
- Measurement of RH, T, p

#### **Sheath air humidifier**

- Mixing of dry and humidified air
- Two mass flow controllers
- Bundle Nafion humidifier or GoreTex tubing
- 30-90% RH

#### **Sheath air closed loop:**

- PID controlled volume flow rate (calibrated mass flow meter)
- Measurement of flow rate
- Heat exchanger
- Measurement of T, RH

#### **Excess flow**

- Mass flow meter
- Measurement of T, RH

## Particle Counter

- CPC
- lower detection limit approximately 10 nm
- flow rate 1 l/min
- Number concentration up to 20,000 cm<sup>-3</sup>

## Calibration aerosol

- Small nebulizer
  - Sulfate for hygroscopic growth calibration
  - Latex for size calibration

## Hardware and Software

- LabView-based H-TDMA program
- In-built Window 7 computer
- External keyboard, and flat screen
- Instruction of personnel

## Further requirements: (additional)

- Dry particle-free air for Nafion dryer and sheath air of the second DMA
- Bipolar Diffusion Charger, Kr-85, or Ni-63
- 

**8. The following accessories and instruments for calibration of air sampling instruments should also be supplied.**

### (a) Nebulizer – 2 for latex calibration

### (b) Portable mass Flow meters - 2

- Flow range : (a) 0-300 Std lpm and (b) 0.01 -20 lpm.
- Accuracy : 2% of reading or 0.05 Std L/min,
- USB/RS-232 interface with computer software

### (c) Gilibrator (Volume Flow meters) – 2 numbers

- Flow Range, Accuracy
  - Low Flow Cell, 1 - 250 cc/min, ±1% of reading accuracy;
  - Standard Flow Cell, 20 cc/min to 6 LPM, ±1% of reading accuracy;
  - High Flow Cell, 2-30 LPM, ±1% of reading accuracy.

### (d) Diffusion dryer (For calibration) – 2 numbers and Nafion dryer (For calibration) – 2 numbers

Nafion dryers for 1 l/min and up to 8 l/min

## Additional Mandatory Requirements

- All Inlets to be custom-made as per scientific requirement of laboratory and long term continuous operation.
- Special expertise and scientific and technical support to be provided to designed inlets suitable for high humidity environments and must work together with IITM scientists
- If any fabrication is to be done inside/outside India, IITM scientists to be involved in the design and development.
- Demonstrated experience in designing and building inlets is necessary.
- Instruments required should be of GAW standard set by WMO.
- Instruments such as the SMPS should be GAW-WCC calibrated and the intercomparison results are obligatory

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

**GENERAL TERMS & CONDITIONS**

**ENQUIRY NO: PS/125/88/2014/**

**TENDER NOTICE No.: PS/TENDER/05/2014**

- 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/125/88/2014** due on **03 SEPTEMBER 2014**.
- 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 03 SEPTEMBER 2014.**

Date and Time of opening of Tenders: **At 15:00 hrs. on 03 SEPTEMBER 2014.**

(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/125/88/2014** for purchase of **“Inlets, Dryer and Calibration Equipments for Aerosol Measurements”– 01 Set** due on **03 SEPTEMBER 2014.**

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

- 9) Tender document fee of **Rs.5,000.00 (Rs. Five Thousand only)** for indigenous suppliers / Indian agents (Non-refundable) and **USD 100.00 (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.
- 10) a) The Equipment is required to be installed in Pune and subsequently Training is to be provided to the concerned scientists / personnel 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/FCA basis, estimated Insurance coverage charges may please be indicated.  
d) CIF/CIP, Mumbai value both by Airfreight/sea must be shown separately.  
e) Local Body Tax (LBT) / 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.

- 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:** 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.
- 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 **03 SEPTEMBER 2014** up to **12:00 hrs.** and shall be opened on **03 SEPTEMBER 2014** 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) The system shall be warranted for at least **ONE YEAR.**
  - (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 **5 days**. In case of non-compliance, a penalty of upto 5% of the total Order Value amount will be imposed or the warranty period will be extended proportionately (as decided by IITM, Pune). 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.**
- 48) Details of onsite warranty, agency that shall maintain during warranty shall be given in the offer. In case of foreign quote, the Indian Agent who shall maintain during warranty and AMC / CMC beyond warranty shall be given in the Technical Offer. 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 / CMC, 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.

59)a) The Earnest Money Deposit of **Rs.9,00,000.00 (Rs. Nine Lakhs 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.

65)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.

66)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.

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

68)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.

69)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.

70) 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.

**71) Confidentiality:** Each party shall maintain as confidential all information received from the other party that is identified as confidential at the time of disclosure (hereinafter for brevity referred to as Confidential Information). Confidential Information shall not include information that is independently developed by recipient or is in public knowledge or is already in the possession of the recipient or is received by receiving party from a third party having been independently developed by such third party. If receiving party is required to disclose Confidential Information due to a legal requirement, it shall provide prompt prior written notice of the same to disclosing party. Confidentiality obligation shall survive for a period of two years after termination/expiry of this Agreement.

Each party shall maintain as confidential all information received from the other party that is identified as confidential at the time of disclosure (hereinafter for brevity referred to as Confidential Information). Confidential Information shall not include information that is independently developed by recipient or is in public knowledge or is already in the possession of the recipient or is received by receiving party from a third party having been independently developed by such third party. If receiving party is required to disclose Confidential Information due to a legal requirement, it shall provide prompt prior written notice of the same to disclosing party. Confidentiality obligation shall survive for a period of two years after termination/expiry of this Agreement.

The supplier and its consultants, representatives and personnel shall not, either during the term or after expiration of this contract, disclose any proprietary or Confidential Information relating to the services, contract or the Purchaser's business or operations or the details or configuration of the system and/or its functions without the prior written consent of the purchaser. No sub-contractor shall be engaged unless with the prior written consent of the purchaser.

The Supplier shall treat the details of the Contract as private and confidential, save insofar as may be necessary for the purposes thereof, for which any disclosures shall be on a need to know basis with the recipients bound by confidentiality requirements which shall be and remain enforceable by supplier at its cost and responsibility mandatorily at the instance of IITM in the event of any breach of confidentiality, such enforcement being by enforcement and inflicting of penal and civil consequences up to the maximum permissible under law, and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the previous consent in writing of purchaser.

If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract the same shall be referred to purchaser whose determination and decision shall be final and binding on both the parties.

The Supplier shall not disclose details except for disclosing to employees and permitted sub-supplier/s on “need to know basis”. No photograph of the works or any part thereof or equipment employed thereon shall be unauthorisedly taken, retrieved, retained, stored, modified, defaced, erased and/or published or circulated without the prior written approval of the purchaser in writing. The responsibilities of the supplier shall not be assigned transferred or otherwise parted with in favour of any other party unless purchaser has permitted such step in advance in writing.

The Supplier confirms and assures IITM that it has signed confidentiality Agreements with its consultants, representatives and personnel, with all such consultants, representatives and personnel bound by confidentiality requirements which shall be and remain enforceable by supplier at its cost and responsibility mandatorily at the instance of IITM in the event of any breach of confidentiality, such enforcement being by enforcement and inflicting of penal and civil consequences up to the maximum permissible under law, and in case of a breach of any of these provisions the Supplier will use all available legal means to forthwith secure injunctions against any unauthorized disclosures by its consultants, representatives and personnel. In the event of a breach of this provision, IITM shall be entitled to seek direct damages from the Supplier subject to the limit of the full value of the present contract.

72) Conditional Offers will not be considered.

**73) Corrupt or Fraudulent Practices:** IITM as well as Vendor under this contract observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, this Institute shall reject a proposal for award if it determines that the vendor recommended for award after financial evaluation has engaged in corrupt or fraudulent practices in competing for the contract in question. It shall declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a IITM Contract if any time it determines that the firm has engaged in corrupt or fraudulent practice in competing for, or in executing, a contract.

The Integrity pact as per proforma should be signed and submitted along with the technical bid.

74) All disputes are subject to exclusive jurisdiction of Competent Court and Forum in Pune, India only.

75) 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.

76) 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.

**77) Last Date and Time for receipt of Tenders: Up to 12.00 hrs. on 03 SEPTEMBER 2014.**

**78) Date and Time of opening of Tenders: At 15:00 hrs. on 03 SEPTEMBER 2014.**  
(Part - I Technical Bid only).

(V. R. MALI)  
Scientific Officer, Grade-I  
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 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.

**PRE CONTRACT INTEGRITY PACT**

**General**

This pre-bid-contract Agreement (hereinafter called the Integrity Pact) is made on \_\_\_\_\_ day of the month of \_\_\_\_\_ 2013, between, on one hand, the Director IITM, Pune acting through Shri \_\_\_\_\_, Designation of the officer, Ministry/ Department, Government of Indian (hereinafter called the 'BUYER", which expression shall mean and include, unless the context otherwise required, his successors in office and assigns) of the First Part and M/s \_\_\_\_\_ represented by Shri \_\_\_\_\_, Chief Executive Officer (hereinafter called the 'BIDDER/Seller" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BUYER proposes to procure (Name of the Stores/Equipment/Item) and the BIDDER /Seller is willing to offer/has offered the stores and

WHEREAS the BIDER is private company/public company/Government undertaking/partnership/registered export agency, constituted in accordance with the relevant law in the matter and the BUYER is a Ministry/Department of the Government of India/PSU performing its functions on behalf of the President of India

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to :-

Enabling the BUYER to obtain the desired said stores/equipment at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and BUYER will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto agree into this Integrity Pact and agree as follows :-

**Commitments of the BUYER**

1.1 The BUYERE undertakes that no official of the BUYER, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.

- 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
- 1.3 All the officials of the Buyer will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the BUYER with full and verifiable facts and the same is prima facie found to be correct by the BUYER, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceeding, or any other action as deemed fit, including criminal proceedings may be initiated by the BUYER and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted the BUYER the proceedings under the contract would not be stalled.

### **Commitments of BIDDERS**

3. The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following :-
  - 3.1 The BIDDER will not offer directly or through intermediaries, any bribe, gift, consideration, reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
  - 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration Reward, favor, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BUYER or otherwise in procuring the Contract or forbearing to do so having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favor or disfavor to any person in relation to the contract or any other contract with the Government.
  - 3.3\* BIDDERS shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
  - 3.4\* BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.

- 3.5\* The BIDDER further confirms and declares to the BUYER that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity of the defense stores and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BUYER or any of its functionaries, whether officially or unofficially to the award of the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 3.6\* The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the

BUYER or their family members, agents, brokers or any other intermediaries in connection with the contract and the details if services agree upon for such payments.

- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDERS shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the BUYER as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the action mentioned above.
- 3.12 If BIDDER or any employee of the BIDDER or person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the BUYER, or alternatively, if any relative of an officer of the BUYER has financially interested/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filling of tender.

The term 'relative' for this purpose would be as defined in Section 6 of the Companies Act 1956.

- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BUYER.

#### **4. Previous Transgression**

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

#### **5. Earnest Money (Security Deposit)**

- 5.1 While submitting commercial bid, the Bidder shall deposit an amount \_\_\_\_\_ (to be specified in RFP) as Earnest Money/ Security Deposit, with the BUYER through any of the following instruments:
- i) Bank Draft or a Pay Order in favor of \_\_\_\_\_
  - ii) A confirmed guaranteed by an Indian Nationalized Bank. Promising payment of the guaranteed sum to the BUYER on demand within three working days without any demur whatsoever and without seeking any reason whatsoever. The demand for payment by the BUYER shall be treated as conclusion proof of payment.
  - iii) Any other mode or through any other instruments (to be specified in the RFP).
- 5.2 The Earnest Money/ Security Deposit shall be valid upto a period of six months or the complete conclusion of the contractual obligation to the complete satisfaction of the both the BIDDER and the BUYER, including warranty period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining to performance Bond in the Purchase Contract that the provisions of Sanctions for Violation shall be applicable for forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 5.4 No interest shall be payable by the BUYER to the BIDDER on Earnest Money/Security Deposit for the period of its currency.

#### **6. Sanction for Violations**

- 6.1 Any breach of the aforesaid provisions by the BIDDER or any on employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitled the BUYER to take all or any one of the following actions, wherever required:
- i) To immediately call off the pre contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.

ii) The Earnest Money (in pre-contract stage) and/or Security Deposit/ Performance Bond (after the contract is signed) shall stand forfeited either fully or partially, as decided by the BUYER and the BUYER shall not be required to assign any reason thereof.

iii) To immediately cancel the contract. If already signed, without giving any compensation to the BIDDER.

iv) To recover all sums already paid by the BUYER, and in case of an Indian BIDDER with interest thereof at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the bidder from the BUYER in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid sum and interest.

v) To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the BUYER, along with interest.

vi) To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the BUYER resulting from such cancellation/rescission and the BUYER shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.

vii) To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which may be further extended at the discretion of the BUYER.

Viii) To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.

ix) in case where irrevocable Letters of Credit have been received in respect of any contract signed by the BUYER with the BIDDER, the same shall not be opened.

(x) Forfeiture of Performance Bond in case of a decision by the BUYER to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.

6.2 The BUYER will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

6.3 The decision of the BUYER to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent Monitor(s) appointed for the purposes of this Pact.

**7. Full Clause**

7.1 The BIDDER undertakes that it has not supplied/is not supplying similar product/systems or subsystems at a price lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found at any stage that similar product/systems or sub systems was supplied by the BIDDER to any other Ministry/Department of the Government or India or a PSU at a lower price, then that very price, with due allowance for elapsed time, will be applicable to the present case and the difference in cost would be refunded by the BIDDER to the BUYER, if the contract has already been concluded.

**8. Independent Monitors**

- 8.1 The BUYER has appointed Independent monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).
- 8.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 8.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 8.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of the meetings.
- 8.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BUYER.
- 8.6 The BIDDER(s) accepts that the Monitor has the right to access without restriction to all Project documentation of the BUYER including that provided by the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Subcontractors. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Subcontractor(s) with confidentiality.
- 8.7 The BUYER will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 8.8 The Monitor will submit a written report to the designated Authority of the BUYER/Secretary in the Department/ within 8 to 10 weeks from the date of reference or intimation to him by the BUYER / BIDDER and, should the occasion arise, submit proposals for correcting problematic situations.

**9. Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BUYER or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

**10. Law and Place of Jurisdiction**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BUYER.

**11. Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

**12. Validity**

12.1 The validity of this Integrity Pact shall be from date of its signing and extend upto 5 years or the complete execution of the contract to the satisfaction of both the BUYER and the BIDDER/Seller, including warranty period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract.

12.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

13. The parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_

BUYER  
Name of the Officer  
Designation  
Deptt./Ministry/PSU

BIDDER  
CHIEF EXECUTIVE OFFICER

Witness \_\_\_\_\_

Witness \_\_\_\_\_

1. \_\_\_\_\_

1. \_\_\_\_\_

2. \_\_\_\_\_

2. \_\_\_\_\_

\*Provisions of these clauses would need to be amended/deleted in line with the policy of the BUYER in regard to involvement of Indian agents of foreign suppliers.