



## Center for Nanoscience and Technology

### PONDICHERRY UNIVERSITY

R.V.Nagar, Kalapet, Puducherry- 605014

### Tender Notification

**Subject:** Pondicherry University- Supply & Installation of following equipment under Department of Science and Technology – DST INSPIRE Faculty Project – Sealed tenders called for – reg.

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Sealed tenders (Two bit system: Technical bid and another for commercial bid) are invited from reputed manufacturers / authorized dealers of reputed manufacturers for Supply & Installation of following equipment as per following specifications

#### List of equipment:

S. No	Name of the equipment	Quantity
1	Mass Flow controller (Range: 0 to 500 sccm)	One
2	Mass Flow controller (Range: 0 to 2000 sccm)	One
3	Gas needle valve	Four

#### Specifications:

1. Mass Flow controller (MFC) should be pre-calibrated or allow user to alter configuration for the following gases and gas mixtures.
  - a) **List of Gases:**  
Acetylene, Air, Argon, iso-Butane, normal-Butane, Carbon Dioxide, Carbon Monoxide, Ethane, Ethylene, Helium, Hydrogen, Krypton, Methane, Neon, Nitrogen, Nitrous Oxide, Oxygen, Propane, Sulfur Hexafluoride, Xenon.
  - b) **Various gas mixtures**  
Quoting firms should attach possible list of gas mixture that can be controlled apart from above list of gas in their technical bit.
  - c) Option must be provided to select any gas or mixture through local panel attached to MFC and via computer program installed on local computer.
  - d) Firm should mention possibilities of changing a full-scale flow rate control range using local computer in their technical bit (This additional or optional facility)
2. MFC must be able to measure as well as control flow of gases (including toxic and non-toxic)
3. Accuracy  $\pm$  (0.8% of Reading + 0.2% of Full Scale) at calibration conditions after tare

4. Repeatability  $\pm$  0.2% Full Scale
5. Operating Range 0.5% to 100% Full Scale Measure and Control
6. Typical Response Time:1 seconds or better
7. Operating Temperature  $-10$  to  $+50$  °Celsius
8. Zero Shift: 0.02% Full Scale / °Celsius / Atm
9. Span Shift: 0.02% Full Scale / °Celsius / Atm
10. Humidity Range: 0 to 100% Non-Condensing
11. Controllable Flow Rate:102.4% Full Scale
12. Maximum Pressure Inlet 145 PSIG
13. Input /Output Signal: Digital Mass Flow, Volumetric Flow, Pressure & Temperature over RS-232 Serial.
14. Input / Output Signal: Analog Mass Flow 0-5Vdc/0-5 Vdc
15. Input voltage/current: 12 to 30 Vdc / 0.25 Amp
16. Mounting Attitude Sensitivity None
17. Warm-up Time: 1 Minute or lesser
- 18. Software and communications**
  - a) Software with proper valid license key (not any form of trial software) must be provided to connect multiple MFC to a single computer for data logging and controlling.
  - b) Lab view drivers other drivers should be provided with MFC
  - c) Other requirements such communication wires, connecting accessories, and communicating accessories for linking all MFC to a single local computer must be included with MFC.
19. Power supply and power cables should be provided for the MFC and cable to connecting to computer with necessary adaptors (USB or RS 232 or etc)
20. The equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.

## **TERMS AND CONDITIONS**

### **I. General Information:**

#### **1) Date and Time**

Last date and time of receipt of the tender: **February 27, 2017, 3.00 PM**

- 2) Two bid systems have to be strictly followed.** One for Technical bid and another for commercial bid and each bid should be submitted in separate sealed covers.

#### **3) Tender Fee:**

- a. Quotation / Tender Document fee: Rs. 500/-
- b. EMD rates: 2.5% of the quoted price for each equipment.
- c. However, the tender document fee and EMD as specified above should be remitted by each firm / bidder, collectively for all their bids advertised under this tender.

- d. **The Tender Document Fee and EMD should be submitted in a separate cover superscripting “Bank Demand Draft” and which should be enclosed with the technical bid.**
- e. The Photo Copies of the Bank Instruments on payment of EMD should be attached with each bidding covers.
- f. ***Payment of EMD:*** The Quotation must be accompanied by tender fee and EMD as stated above, by means of a Demand Draft, drawn in favor of ***The Finance Officer, Pondicherry University, payable at Puducherry.*** *The Small Scale units are exempted from payment of EMD provided they enclose the proof of their exemption Certificate issued by the competent authority.*

**4) Quoting merely the lowest price does not confer any right to any bidder for award of supply order. The University’s Purchase Committee, reserves the right to select the equipment any bid under the grounds of specification compliance, technologically advanced quality, proven performance track record, brand reputation, service backup support & training, offer of additional / special features, compatibility with the existing System, etc.**

**5) Submitting format:**

- a. **The tender/quotations will not be accepted through fax or e-mail.**
- b. The tender / quotation must be submitted along with the stipulated tender document fee and EMD in the sealed cover, super-scribing the name of the Department / Centre for whose equipment the tender is quoted for.
- c. The cover should also contain the information like, Name of the Equipment and serial number of equipment for which the bids are submitted. The name and address of the bidder should also be mentioned at the “From address” space.
- d. The tender should be addressed to the Principal Investigator, Pondicherry University.
- e. In case of local delivery, all tenders are to be dropped in the tender box placed at the Information Facilitation Counter, Bharat Ratna Dr. B. R. Ambedkar Administrative Block, Pondicherry University, R.V. Nagar, Kalapet, Puducherry – 605 014.

Tender submitted under two bid system for the **Centre For Nanoscience and Technology**

**Name of the Equipment :** \_\_\_\_\_

**To,**  
**Dr. K. Vijayarangamuthu,**  
**DST – Inspire Faculty,**  
**Principal Investigator (DST-Inspire faculty project),**  
**Centre for Nanosciene and Technology,**  
**Pondicherry University,**  
**R.V. Nagar, Kalapet, Puducherry – 605014.**

**From**  
**Supplier’s Address**

## **II. Common Conditions (Import or Indigenous)**

### **1) *Purchase of Tender/Quotation Document:***

The Tender/Quotation can be downloaded from the University website [www.pondiuni.edu.in](http://www.pondiuni.edu.in) or procured from the Pondicherry University on payment of fee as specified above, by means of a D.D, drawn in name of **The Finance Officer, Pondicherry University**, payable at **Puducherry**. The downloaded application should be accompanied with the quotation document fee, in the form of a Demand Draft.

### **2) *Quoting Price***

The rates should be quoted for a single unit and also for the total quantity required by the University. The price should include the delivery, installation, training charges, etc. at the respective Department, Pondicherry University. The prices quoted shall remain firm until the equipment is supplied to the respective Department, Pondicherry University.

#### ***i) Quoting the Tax, Duties, Discount etc.***

The taxes / duties / discounts, if applicable, are to be explicitly and separately shown in the bid.

### **3) *Eligibility:***

The firm must have the requisite domain expertise with regard to supply, installation and post-sale service of the items they are quoting. The firm should have been in existence for at least six years as on the date of this quotation and must have executed at least three orders for this kind of equipment during the last three years. Company should be ISO certified. The firm should have not incurred any loss in the last three years.

### **4) *Installation:***

The engineer should install the equipment **free of cost** at the site. However, utilities like power, water, air, etc. will be provided.

### **5) *Delivery:***

Within one month from the date of receipt of approved drawings.

### **6) *Duty Exemption***

The University has been granted the benefit of exemption from the payment of the Central Excise Duty and Customs Duty by the Department of Scientific and Industrial Research (DSIR), India, vide their Notification No.10/97 dt. 01-03-1997 and 51/96 dated 23.07.96 respectively, in respect of

- a) Scientific and technical instruments, apparatus, equipment, Software including computers.
- b) Accessories and spare parts of goods specified in above and consumables.
- c) Computer software, compact disks, CD ROM, Recording magnetic tapes, microfilms, microchips etc.
- d) Prototypes.

Customs duties at Indian port, if any, will be to the account of the University.

### **7) *Warranty and other conditions:***

- i) The equipment covered under the purchase order, when installed, shall be warranted for the quality, workmanship, trouble free operation and performance for a period of at **least 36 months** from the date of putting the system into operation at the Centre for Nanoscience and Technology, Pondicherry University, or at least 42 months from the date of receipt of the last lot of the consignment in India.
- ii) If any item covered under warranty fails, the same shall be replaced free of cost including all the applicable charges including shipping cost both ways.
- iii) Complete technical specifications to be included in the Technical bid.
- iv) The necessary service support should be provided by Bidder during the agreement period.
- v) The training should be provided by the supplying companies for a minimum period of two days from the date of installation with an expert team.
- vi) Technical post sale support by email and telephone will be provided during the period.

- vii) Operating Manual should be provided in English.
  - viii) A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
  - ix) A recent customer list (within last five years) with contact details including email address is to be submitted with technical bids / bids as the case may be.
  - x) If the equipment is proprietary a product, a proprietary product certificate should be enclosed.
  - xi) The information pertaining to infrastructural, power and any other requirement for satisfactory installation and commissioning of the whole system must be provided by the bidder, at least 30 days in advance of the installation to be commenced if purchase order is issued.
  - xii) The equipment must operate at 230V/50 Hz single phase and / or equivalent three phase electrical power.**
  - xiii) If the bidder is an authorized representative in India, they are requested to inform their technical ability to take care of the problems in the system, if developed later within the warranty and outside the warranty period. The responsibility of the Indian agent must be clearly specified.
- 8) The bidder from abroad shall obtain, if required, export permission from the appropriate authorities in his country or the country of origin for items to be shipped to India in case of items to be imported. The University shall provide necessary information if required for this purpose.
  - 9) **The validity of the each quotation should be at least for SIX MONTHS from closing date.**
  - 10) The offers will not be considered if received after the bid closing date and time.
  - 11) The offers received through telex / telefax / e-mail will not be accepted by the University under any circumstances.
  - 12) The University shall not be responsible for any delay / loss or non-receipt of quotations by post /courier service.
  - 13) No unsolicited correspondence shall be entertained after the submission of the offer.
  - 14) If an order is placed with the firm, the purchase shall be governed by an agreement as per the University rules in force at the time.
  - 15) **Additional terms and conditions will be incorporated in the purchase order, if needed, to safe guard the interests of the University.**
  - 16) Quotation/tender is not transferable.
  - 17) In case of any dispute in respect of the quotation/tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.
  - 18) **Power to reject the offer:**  
**Pondicherry University reserves the right to accept / reject any offer in full or in part or accept any offer other than the lowest offer without assigning any reason thereof. Any offer containing incorrect and incomplete information shall be liable for rejection.**
  - 19) No Agency commission will be paid to any authorized agent in India.
  - 20) **Liquidated damages:**  
 Timely supply of the ordered items, installation, commissioning (wherever is applicable) and training etc. is the essence of the contract. In case of failure to supply within the time specified in the Purchase order, a penalty / LD of 0.5% of the total value per week or a part thereof shall be levied subject to a maximum of 7.5% in respect of items which are not supplied. The decision of Pondicherry University shall be final in this regard.
  - 21) Bidder(s) must be authorized business partners of Global / National service providers of the respective equipment.
  - 22) The Bidders must enclose authorization letter from the respective global / national service providers of the above equipment particularly mentioning an undertaking that in case of

default by the Bidder, they (Global Service Provider) shall take over all the responsibilities of the Bidder.

- 23) The Bidder should not be involved in any Bankruptcy filing for protection from it.
- 24) **The training should be provided by the supplying companies on the specimen and operation of the equipment for a minimum period of two weeks from the date of installation with an expert team.**

### III. Specific Conditions for Imported Equipments

#### 1) **Payment of EMD:**

The Quotation/tender must be accompanied by EMD as stated above, by means of a Demand Draft, drawn in favor of **The Finance Officer, Pondicherry University, payable at Puducherry.** *The Small Scale units are exempted from payment of EMD provided they enclose the proof of their exemption Certificate issued by the competent authority.*

#### 2) **Payments terms:**

- a. Normally a letter of Credit will be opened for 90% of CIP price, on receipt of order acknowledgement. However, 100% of the LC also be considered, if the supplier provide Bank Guarantee towards performance Security for the 10 % of the total cost of the equipment to cover the Warranty Period.
- b. Bank charges in India shall be borne by the purchaser and outside India shall be borne by the contractor / supplier.
- c. The offer must be in English. The rates should be indicated both in figures and words against item specified in the given table. It is preferable that the price be quoted in Rupees or in US Dollars or in major foreign currencies.
- d. The total cost should be quoted for FOB as well as CIF – Pondicherry University.
- e. However, the price quoted under FOB or should also include the following cost if they are required during the initial stage:
  - i. Local freight / insurance for Chennai airport to University laboratory.
  - ii. Installation cost if any.
  - iii. Cost of consumables which are required for the equipment for initial operation upto a reasonable time.
- f. In case of the Principal supplier of foreign country unable to meet the conditions, the local agent / dealer should fulfil the above said conditions in respect of Local Insurance, Freight, safety transport and installation, etc.
- g. The bidder from within India shall obtain the requisite approval for Imports etc., if required.

For any clarification with respect to technical specifications, please contact the PI of the project as per the details given below:

Name of the Centre	Name of the PI	Contact Details
Centre for Nanoscience and Technology	Dr. K.Vijayarangamuthu DST-Inspire Faculty & PI	+91 94-8994-2024 vijayaemlab@gmail.com

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