



**DEPARTMENT OF PHYSICS, PONDICHERRY UNIVERSITY,
R. VENKATARAMAN NAGAR, KALAPET,
PUDUCHERRY-605014**

TENDER NOTICE FOR SUPPLYING Furnace EQUIPMENTS

TENDER NOTICE NO.: PU/PHY/RNB/Project/2014/Equip.-1 Dated 14.05.2014

Sealed Tender/quotation(s) are invited from eligible and qualified suppliers under single bid system for purchasing the Furnace items/equipment with following specification.

(A) Technical specification

Item 1. Box or tubular muffle furnace

1. Electric supply: AC -220V single phase or 400/440 volts 3 Phase 50 Hz
2. Maximum operating temperature: 1100⁰C, 1200⁰C and 1300⁰C for continuous operation
3. Temperature control : Microprocessor based programmable PID
controlled temperature with accuracy $\pm (1-2)^{\circ}\text{C}$.
Number of programs 5-10 and in each program at least 10-15 steps.
Digital control panel built into furnace base.
4. Temperature uniformity : $\pm 5^{\circ}\text{C}$
5. Expected skin temperature : $\leq 20^{\circ}\text{C}$ above ambient
6. Programmable Heating/cooling rate: 5-50⁰C/minute and fast heating/cooling rate
Preferable.
7. RS232/GPIB interfacing access must be there for setting temperature through remote controlled program in computer.

Option A.: Tubular Furnace:

- (i) Tube length 300-350 mm and inner diameter 50-60 mm
- (ii) Heated length 200-250 mm
- (iii) Length of constant temperature: 80-100 mm
- (iv) tube material: High quality alumina ceramics or other ceramics
- (v) heating element: Kanthal
- (vi) Table top and or floor standing with option vertical or horizontal fixing using suitable stand.

Option B: Box furnace

- (i) Chamber inner volume: 1 litre and 3 litre
- (ii) Door: lift up
- (iii) additional option: 10-15 mm diameter hole through the wall opposite to door and suitable ceramic filler/plug can be put there which is removable.

Item 2: Gas supply system to Tube Furnace

- (i) Gas supply system for Ar, N₂, Oxygen gas, Hydrogen gas
- (ii) Controlling valves, gas outlet valves, and gas flow controllers/meters for each Gas, and accessories.

(B) TERMS AND CONDITIONS (UNDER SINGLE BID SYSTEM)

I. Instructions to the Bidder:

1. Tender document fee Rs. 250/-

The Tender Document Fee **INR 250** to be submitted for each item in the form of separate Demand Drafts, drawn in favour of **the Finance Officer, Pondicherry University, payable at Puducherry.**

2. Last Date & Time for submission of Tender Documents:

25.06.2014 at 2.00 p.m. and opening on the same day at **2.30 p.m.**

3. Submission of tender Document:

Tender/quotation must be submitted in sealed cover super-scribing thereon bidder's name, Notification No. and **name of the Item** by Normal/ speed/ Registered post/courier service addressed to

Dr. R.N. Bhowmik, Assistant Professor, Department of Physics, Pondicherry University, Puducherry-605 014, India positively before the tender bid closing time. **Any tender submitted without tender document fee will not be accepted.**

4. Quoting the Core price & Tax, Duties, Discount etc.

The taxes/duties/discounts, if applicable, are to be explicitly and separately shown in the bid and under no circumstances these components shall be added to the basic price and shown as single price. All the components of taxes, if applicable, should be shown explicitly and separately.

5. The validity of the Quotation:

The validity of the quotation should be for at least 90 days from the closing date of the bid.

6. Invalid Bids:

The bids will not be considered if received after the closing date and time. The offers received through telex/ fax /e-mail will not be accepted by the University under any circumstances. Any offer containing incorrect and incomplete information shall be liable for rejection.

7. In case of Postal loss:

University shall not be responsible for any delay/loss or non-receipt of tenders by post/courier.

8. Purchase Agreement:

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. Additional terms and conditions may be incorporated in the purchase order, if needed, to safe guard the interests of the University. The Tender is non-transferable.

10. 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. The items must be high quality and the quality must be certified, otherwise the offer will be rejected.

II. Price Schedule

1. The bidder who is capable of supplying the entire solutions as per the specifications of the equipment is preferred to submit their quotation.
2. The rates should be quoted for a single unit.
3. **The price should include the Delivery, installation, training charges (if any), insurance, etc. at the Department of Physics, Pondicherry University, Puducherry, India.**

III. Eligibility:

1. The firm must have the requisite domain expertise with regard to supply, installation and post-sale service of the items for which they are quoting.
2. The firm should have nation-wide Service Network all over India.
3. The feedbacks from the present users of the similar equipment about the performance, service support, accuracy of result, etc. may be submitted along with the Tender Document.
4. The bidder must declare the time to be taken for supplying the equipment to Pondicherry University after receiving the purchase order.
5. Any other techno-commercial information, pertaining to this particular Equipment, principal suppliers, technical background and capability, local agents background on Scientific Equipment Business, etc. may also be appended along with Testimonials and documentary proof.

IV. Conditions of Contract: -

1. The offer must be in English. The rates should be indicated both in figures and words against item specified. The price must be quoted in **INR**.
2. The quoted price should include the expected installation cost in the University Laboratory at Puducherry and also cost of consumables which are required for the main item(s) for initial operation up to a reasonable period.
3. The prices quoted shall remain firm until the item(s) is supplied to the Department of Physics, Pondicherry University, Puducherry.
4. 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 dt. 23.07.96 respectively.

In respect of

- a. Scientific and technical instruments, apparatus, equipment including computers.
 - b. Accessories and spare parts of goods specified in (a) above and consumables.
5. Complete technical specifications and literature, including process flow, to be included with the quotation. Manufacturers of various major parts/equipment must be mentioned explicitly.
 6. A clear statement regarding availability of after-sales service and availability of spare-parts for next 5 to 10 years should be included.
 7. The bidder within India shall obtain the requisite approval for Imports etc., if required.
 8. **Warranty:** The material 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 successful and complete installation** at the Pondicherry University, or at least 42 months from the date of receipt of the last lot of the consignment in India.
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, and the supplier has to take the responsibility of transporting door to door delivery of the items for repairing/servicing to their factory.
 9. **Payments terms:** Normally a letter of Credit (LoC) will be opened for 100% FOB price on receipt of order acknowledgement. However, 90% of the LC amount will be paid on proof of the shipment of the consignment with necessary documents to be detailed at the time of placing of the purchase order. Balance of 10% of the LC amount shall be made after satisfactory installation and commissioning and against submission of the Installation & Commissioning certificate, duly accepted by the purchaser, and **a performance bond of 10% of the total contract/purchase value in the form of bank guarantee (obtained from Nationalized Bank of India) for the duration of the Warranty period.**

All the Bank charges within India shall be borne by the purchaser and outside India shall be borne by the bidder/supplier.
 10. In case of any dispute in respect of the tender, all legal matters shall be instituted within the jurisdiction of the place where the purchaser ordinarily resides.
 11. No Agency commission will be paid to any authorized agent.

For any clarification with respect to technical specifications, please contact to
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