

 <p>IIT PALAKKAD</p>	<p>भारतीय प्रौद्योगिकी संस्थान पालक्काड Indian Institute of Technology Palakkad अहलिआ एकीकृत कैम्पस, कोझिपारा Ahalia Integrated Campus, Kozhipara पालक्काड- 678557 Palakkad – 678 557</p>	<p>दूरभाषसंख्या/ Phone no: 04923 – 226300/590/586</p> <p>ईमेल/ Email : purchase@iitpkd.ac.in</p>
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Ref No: IITPKD/CHY/DJ/127/ 2017

Date: 01.03.2018

Due Date of the tender: 15.03.2018 @ 3 PM

TENDER FOR INVITING QUOTATIONS

Dear Sir,

On Behalf of Indian Institute of Technology Palakkad quotations are invited for “**Vertical Tub Furnace**” confirming to the specification in the Annexure.

1. **Preparation of Bids:** - The tenders should be submitted **under two-bid system** (i.e.) Technical bid and Financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. No prices should be included in technical bid. Financial Bid should indicate item – wise prices for the items mentioned in the technical bid. The technical and the financial bids should be put in separate cover and sealed. Both sealed covers should be put into a bigger cover.
2. The Quotations duly sealed and superscribed on the envelope **with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above. Fax and Email quotation are not acceptable.**
3. The price should be quoted per unit and packing and delivery charges should be indicated separately. The offer/bids should be exclusive of Taxes and Duties, which will be paid by the purchaser as applicable. However the percentage and of taxes and duties as on date should be clearly indicated.
4. The Quotations should be valid for **sixty days** from the due date and the period of delivery required should also be clearly indicated.
5. **Local Firms:** Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
6. Outside Palakkad: Quotations should be for **F.O.R. at IIT Palakkad**. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
7. Goods shall not be supplied without an official supply order.
8. **Custom Duty:** Custom Duty which will be paid at a concessional rate against duty exemption certificate. **The price indicated should be CIF/CIP Kochi**

9. **Concessional GST@ 5% will be paid extra against Government Notification No.47/2017, dated 14.11.2017**
10. **Payment:** Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later. No advance payment will be made. The Tenderer have to furnish the bank details along with tender like Account No, Account Name, IFSC Code, Bank address etc.
11. **Submission of Bids:** Quotation should be sent to the following address “**The Registrar, Indian Institute of Technology Palakkad, Ahalia Integrated Campus, Kozhipara, Palakkad -678 557, Kerala**”, Phone No: 04923 226 586/590, Email: purchase@iitpkd.ac.in.
12. **Delivery Period:** The quotation should indicate clearly when delivery and installation to be made.
13. **Delay in Supply or Liquidate damages:** If the supplier fails to deliver the stores within the time specified in the purchase order, the purchaser will recover from the supplier as liquidated damages a sum of **one- half of one percent (0.5%) of the P.O value of the undelivered stores for each calendar week of delay. The total liquidated damages shall not exceed five percent (5%) of the P.O price of the unit or units so delayed. Stores will be deemed to have been delivered only when all their component parts are also delivered. If certain components are not delivered in time, the stores will be considered as delayed until such time as the missing parts are delivered.**
14. **Late offer:** The quotation received after due date will not be considered. Please ensure that your offer is sent well in advance to reach the Institute by the due date.
15. **Loading and unloading charges will be borne by the supplier.**
16. **Warranty:** Warranty Clause should be indicated clearly.
17. **Acceptance and Rejection:** IIT Palakkad has the right to accept the whole or any parts of the Tender or portion of the quantity offered or reject it in full without assigning any reason.

Yours faithfully,



Registrar, IIT Palakkad

Encl: Specifications

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Tender specifications for Vertical Tube Furnace

S.No	Item	Specifications
1	Equipment name	Angle adjustable tube furnace
2	Design features	<ul style="list-style-type: none"> • Tube furnace with angle adjustment option allowing horizontal and multi-angle usage of the equipment. • Separate temperature control unit with at least 2 metre conduit to furnace. • Max Temperature of 1200°C with a single ramp to set-point & timer. • Maximum heat up time to 1100 °C using an empty work tube should not exceed 60 min. • Heated length must be at least 300 mm of which at least 180 mm should have a uniform temperature of +/- 5 °C. Supporting document showing temperature profile with respect to length at different set temperatures must be provided.
3	Number of heated zones	Three
4	Clearance under furnace: Internal H x W x D (mm)	Upto 700 mm
5	Dimensions: External of control module H x W x D (mm)	Must not exceed 225 x 370 x 390
6	Dimensions: External including the stand HxWxD (mm)	Must not exceed 1040 x 470 x 665
7	Max Power (W)	Not to exceed 1480 W
8	Holding power	1500 W at continuous operating temperature 1100 °C
9	Thermocouple type	Preferably N type
10	Weight	Strictly not to exceed 30 kg
11	Safety features	Over-temperature protection to protect valuable contents & for unattended operation
12	Eligibility	<ul style="list-style-type: none"> • The vendor must provide contact details of at least 3 users of similar models supplied in the last 3 years. • The users are preferably from Centrally Funded Technical Institutions. • The vendor must have a base (office/ service centre/factory) in Kerala or Tamil Nadu. • If requested, the vendor must be prepared to provide a demonstration of the product at the temporary campus of IIT Palakkad at his own expense.
13	Accessory	One additional unit of digital PID temperature controller
14	Acceptance criteria	<ul style="list-style-type: none"> • The efficiency of the furnace at 1000 °C for an hour will be tested. During this operation, the surface temperature of the body of the furnace must not exceed the room temperature by more than 30oC. • The angle adjustment will be checked.

15	Delivery	8-10 weeks from the date of PO
16	Payment terms	<ul style="list-style-type: none">• 100% Payment After supply and Installation and certification by the end user
17	Warranty	One year from the date of installation must be provided