

INDIAN INSTITUTE OF SCIENCE EDUCATION AND RESEARCH  
THIRUVANANTHAPURAM (IISERTVM)  
(Govt. of India, Ministry of H.R.D)

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IISERTVM CAMPUS  
MARUTHAMALA. P.O, VITHURA  
THIRUVANANTHAPURAM 695551  
KERALA, INDIA.

Date: 01/08/2018

**INVITATION TO TENDER**  
No: IISER/PUR/0128/RCN/SP/18-19  
Due Date: 14<sup>th</sup> Aug 2018 [4PM]  
Date of Opening: 16<sup>th</sup> Aug 2018 [3PM]

Dear Sirs,

**SUB: Supply of High Temperature 2-Zone Furnace**

We invite Sealed Tenders for the following items:

Sl.No	Description	Qty
1	<b>High Temperature 2-Zone Furnace Specifications as per Annexure I</b>	1 No

Please quote your lowest rate and shortest delivery period as per the following terms. Your offer in sealed cover **SUPERSCRIBING TENDER NUMBER AND DUE DATE** shall reach us on or before the due date and time.

**EMD** Rs.16000/- should be paid through State Bank Collect- Tender No & Company Name must be mentioned in the Remarks column. Quotes should accompany a copy of Transaction slip /Print out **OR** Bank guarantee equivalent to the EMD value with validity 90 days **OR** Bidders should submit an undertaking in their letter head as per clause 12 of Instructions to Tenders (Imports).

**Payment** : Within 30 days after supply and installation/Net 30 days /LC  
**No advance payment will be made by IISERTVM.**

**Delivery** : To be delivered at **Vithura Campus** (Free delivery). If import, mention Ex-works/FCA/CIP terms with clear breakup charges.

**Taxes & Duties** : Indicate taxes and duties. We are exempted for customs duty under 51/96 notification and GST under 45/2017 & 47/2017 Dated 14/11/2017 notifications.

**Discount** : Indicate, if any.

**Delivery Schedule** : Required Immediately. Indicate your schedule

**Validity of quote** : 60 days


Thanking You,

**Please see the rear side for other Terms & Conditions**

**Please visit the following websites for more information**

1. [www.iisertvm.ac.in](http://www.iisertvm.ac.in)
2. <https://www.eprocure.gov.in/epublish>

Yours Faithfully

  
Deputy Registrar  
[Purchase & Stores]

**P.S. CATALOGUE/LEAFLET FEATURING ALL TECHNICAL SPECS/INFORMATION OF THE PRODUCT QUOTED SHALL ACCOMPANY THE OFFER.**  
**OUR EARLIER TENDER EVEN NO. DT.22.05.2018 STANDS CANCELLED AND THIS IS A RETENDER WITH REVISED SPECIFICATIONS.**

# IISER-TVM

## INSTRUCTION TO TENDERERS [IMPORTS]:

1. **PRICE:** The price quoted shall be firm. The terms of FOB/EXW/FCA/CIF/CIP etc shall be clearly mentioned.
2. **AGENT & AGENCY COMMISSION:** In case Tenderer is represented by any agent in India, their name and address shall be furnished. The amount of commission included in the price shall be clearly shown in the offer; which will be paid directly to the Indian Agents by purchaser in equivalent Indian Rupees. In case Indian agents existing and their agency commission is not shown in the Tender, reasons for the same shall be clearly mentioned in Tender. Details of Indian agent's statutory registration shall be stated. If Agency Commission is paid by Principals in foreign currency, the reasons for the same and exemption from Enforcement Directorate in India shall also be provided.
3. **LEAFLET/CATALOGUE:** Tenderer should furnish all necessary leaflet/catalogue etc., of the stores offered by him to enable the Purchaser to evaluate his offer correctly.
4. **MODE OF DESPATCH:** Tenderer shall indicate the mode of dispatch (i.e., Sea/Air-freight/Parcel Post, etc.) depending upon the normal mode of dispatch adopted by him for the type of stores offered for consideration of the Purchaser.
5. **COUNTRY OF ORIGIN:** Tenderer shall indicate in his offer the country of origin of goods offered and the name and address of the manufacture.
6. **INSURANCE:** If insurance of the goods is felt necessary, the same shall be advised by the Tenderer in the offer.
7. **DELIVERY/SHIPMENT:** The time for and date of delivery quoted shall be reasonable/realistic and shall strictly be adhered to in case of placing order on the Tenderer.
8. **MODE AND TERMS OF PAYMENT:** Payment in full (excluding the amount of Agency Commission included in the price payable directly by the Purchaser to the Indian Agents in Indian Rupees) will be made immediately on presentation of the prescribed documents against SIGHT DRAFT or LETTER OF CREDIT or WIRE TRANSFER against shipping documents. **OURS BEING A GOVT OF INDIA EDUCATIONAL INSTITUTE WE ARE UNABLE TO MAKE ANY ADVANCE PAYMENT**
9. **WARRANTY:** Period of warranty and conditions shall be clearly mentioned in the Tender.
10. **GENERAL:** The Tenderer shall also be complied with the following:
  - a. Mention your Banker's name and address.
  - b. Show approximate net and gross weight and dimensions of packages/ cases. If dimensional details are available the same should also be indicated in your offer.
  - c. Furnish list of recommended spares for satisfactory operation for a minimum period of one year if the quote is for Plant & Machinery, Equipments etc.
  - d. Details of any technical service, if required for erection assembly, commissioning and demonstration.
  - e. Conform that the prices quoted are inclusive of all taxes, levies, duties arising in the tenderer's country.
  - f. Samples, if called for, will be sent free of all charges.
  - g. Late tenders and Delayed will not be considered.
  - h. Offers made by Indian Agents on behalf of their Principals, should be supported by the Proforma Invoice of their Principals.
  - i. The authority of person signing the tender, if called for, shall be produced.
  - j. The purchaser reserves the right to accept or reject the lowest or any other offer in whole or in part without assessing any reason.
11. **Tender Opening:** All tenders will be opened at **1<sup>st</sup> Floor Shopping Complex, IISER-TVM Vithura Campus.** Authorized representatives with authorization letters of the bidders may attend the Tender Opening.
12. **As per GFR 2017 clause 170 (III) Bidders who fail to pay the Earnest money deposit has to mandatorily sign a bid securing undertaking that if the bidder withdraw or modify the Bids during the period of validity, or if the bidder is awarded with the contract and they fail to sign the contract, or to submit a Performance security before the deadline defined in the request for bids document, they will be suspended for the period of time decided by the institute.**

## INSTRUCTION TO TENDERERS [INDIGENOUS]

1. Tenders should be sent in sealed envelopes superscribing the relevant tender no. and the due date of opening. Only one tender should be sent in each envelope.
2. Sales Tax and /or other duties/levies where legally levies and intended to be claimed should be distinctly shown separately in the tender.
3. (a). Your quotation should be valid for a minimum period of 90 days from the date of opening of the Tender. Quotation with firm prices will be preferred.  
(b). Prices are required to be quoted according to the units indicated in the Invitation to Tender. When quotations are given in terms of units other than those specified in the tender form, relationship between the two sets of units must be furnished.
4. **(a) Preference will be given to those tenders offering supplies from ready stocks. The basis of delivery is at IISER site free of cost.**  
**(b) Our payment terms are within 30 days of receipt and acceptance of the item at our site.**
5. (a) All available technical literature, catalogues and other data in support of the specifications and details of the items should be furnished along with the offer.  
**Specifications:** Stores offered should strictly conform to our specifications. Deviations, if any should be clearly indicated by the tenderer in their quotation. The tenderer should also indicate the Make/Type number of the stores offered and provide catalogues, technical literature and samples, wherever necessary along with the quotations. Test Certificates wherever necessary should be forwarded along with supplies. Whenever specifically mentioned by us the tenderer could suggest changes to specifications with appropriate reasons for the same.
6. IISER shall be under no obligation to accept the lowest or any tender and reserves the right of acceptance of the whole or any part of the tender or portion of the quantity offered and the tenderers shall supply the same at the rates quoted.
7. Corrections, if any, in the Quotation must be attested. All amounts shall be indicated both in words as well as in figures. Where there is difference between amounts quoted in words and figures, amount quoted in words shall prevail. Quotation must have price for each line item and totaling of the price including taxes and duties should be clearly mentioned.
8. The tenderer should mention the name of his bankers, Sales Tax Registration, PAN number etc in the tender.
9. The authority of the person signing the tender, if called for, should be produced.
10. IISER being a Govt of India Educational and Research Institute, is exempted from payment of GST under Notification No. 45/2017 & 47/2017 dt 14/11/2017 and Customs Duty under Notification No. 51/96- Customs dated 23<sup>rd</sup> July 2009. Also, we can issue Form16 as per VAT Rules.
11. The stores supplied should be covered with minimum of 1 year warranty from the date of supply, installation and commissioning.
12. Earnest Money Deposit/ Bid Security should be submitted along with your quote as mentioned in Invitation for Tender. EMD should be in favour of Indian Institute of Science Education and Research Thiruvananthapuram valid for 90 days.

## Attachment II

### Specifications for Compact and Horizontal two-zone Furnace

1. Number of Zones: two (continuous work length, not a split tube)
2. Maximum operating temperature.: 1600 C
3. Continuous working temperature for long duration: 1500 C
4. The dimension of each uniform heating zone (two hot zones):  $\leq 100 \times 90 \times 300$  mm (OD x ID x L)
5. Maximum heating rate: nearly 5  $^{\circ}\text{C}/\text{min}$
6. Total furnace dimension:  $\leq 1000 \times 600 \times 600$  mm (L x W x H)
7. It should have alumina tube with stainless steel flanges and double silicon O-rings on either side.
8. Alumina tube dimension (OD x ID x L): 1000 x 50 x 1200 mm
9. Insulation: It should have at least 3 layers of fibre board insulation and hot face lining with alumina fibre capable of withstanding 1600  $^{\circ}\text{C}$  and less radiation of heat. Hot face insulation temperature rating should be  $> 1700$   $^{\circ}\text{C}$
10. Body: Double layer steel body construction with double fan cooling system low surface temperature (skin temperature at 1500  $^{\circ}\text{C}$ :  $< 60$   $^{\circ}\text{C}$ ).
11. Air filters must be attached to the cooling fans.
12. Heating element: U shaped  $\text{MoSi}_2$  heating element rated for 1800  $^{\circ}\text{C}$  (total number of heating elements should be above 15).
13. Thermocouple type: R-type 24 CWG in a protective alumina tube
14. Number of thermocouples: 2 (in each zone)
15. Temperature control: Two separate programmable temperature controllers with provision for setting multiple temperature steps (type of controller and steps per program should be specified)
16. Temperature control resolution:  $\pm 1$   $^{\circ}\text{C}$
17. Power rating: Maximum 8 kW, 2-phase, 230 V, 25 A
18. It should have provision for over temperature protection (type of protection mechanism should be specified)
19. It should have provision for thermocouple failure display.
20. It should have the provision for gas purging/ vacuum atmosphere along with needle type valve and rotameter for gas flow control.
21. Weight of the furnace should not exceed 100 kg
22. Number of radiation shields: 2 ceramic tube blocks
23. One stainless steel sample placement rod
24. One year warranty should be provided
25. Installation and demonstration at our site (free of cost)

#### Optional Items:

1. Spare parts such as extra heating elements, one thermocouple, one alumina tube etc should be quoted separately.

2. Extended warranty for one more year should be quoted separately
3. Quote for a stand with height not more than 1 meter separately, if possible.

Terms and Conditions:

1. A compliance sheet in the tabular format should be submitted.
2. A list of laboratories/places where the same model is supplied and installed should be provided.
3. The bidder must submit the brochure in support of their claim.