

**Department of chemistry**  
**University of Kerala,**  
**Kariavattom, Thiruvananthapuram-695581**  
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**No. DC/ST/Eq/8/2018-19**

**E-TENDER NOTICE**

Tenders are invited for the "Supply, Installation and commissioning of "Muffle furnace" through e-tender only.

Tender notification Date	:- 26/02/2019
Last date of issuing tender document through <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>	:- 12/03/2019
Last date of Receiving e-tender through <a href="http://www.etenders.kerala.gov.in">www.etenders.kerala.gov.in</a>	:- 12/03/2019
Date of Opening Technical Bid	:- 15/03/2019
Date of Opening Financial Bid	:- After Technical Evaluation
Earnest money Deposit	:- INR 9,000/-
Tender fee	:- INR 2016/-

Tender Submission: - Two part tender comprising of Technical bid and Financial Bid shall be submitted through e-tender website [www.etenders.kerala.gov.in](http://www.etenders.kerala.gov.in)

Tender Inviting authority: Assistant Professor and Head, Department of Chemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram, Kerala-695581.

**Item: Muffle Furnace**

**Quantity: 1 No**

**Specifications:**

Maximum Temperature	1400 °C
Continuous Working Temperature	1300 °C
Heating rate	1°C/second
Temperature accuracy	± 1°C
Temperature controller	Microprocessor based digital programmable temperature control, PCD controller, Profile based controller
Heating element	SiC
Display	LED/LCD display
Inner dimension	300 mm x 300 mm x 600 mm ( L x H x D)
External chamber construction	Ms w/Powder coating/304 grade stainless steel
Internal chamber construction	Ceramic board

Insulation	Ceramic wool insulation
Alarm	Audible and Visual type
Power supply	220/440 V
Stabilizer	As standard
Thermocouple	R type
Thyristor Power control device	
Adjustable over temperature protection	
Main isolation switch	
Pilot indicating light	
Bogie Hearth	
Vertical Lifting Door	
Modified atmosphere capability	
Accessories	Data logger Safety switch on door Temperature chart recorder Extra port for gas – extra heating element and rod with clips Extra thermocouple Tongs ( Both large and small) Gloves Steel tray
Warranty: Two years comprehensive Warranty is required wherever applicable. If any component including heating element, control unit, thermocouple is found to be defective during the warranty period, the vendor has to replace the defective item immediately at their own cost	

## **Documents to be Uploaded**

### **1. Technical bid**

1. Signed Compliance Matrix on specifications
2. Detailed Technical Brochure

### **2. Financial bid**

1. BoQ

### **General Conditions:**

1. The Bidder should be a manufacturer or their dealer specifically authorized by the manufacturer to quote on their behalf for this tender as per Manufacturer Authorization Form and Indian agents of foreign principals , if any. Who must have designed, manufactured, tested and supplied the equipment(s) similar to the type specified in the “Technical Specification”. Such equipments must be of the most recent series/models incorporating the latest improvements in design.
2. Incomplete & conditional tenders and tenders received after the due date will be summarily rejected without assigning any reasons thereof.
3. The price should be inclusive of all taxes, transportation, installation etc. Nothing extra will be paid in addition to the quoted rate.

4. Payment Terms: 90% payment shall be made through irrevocable L/C on presentation of complete and clear shipping documents and balance 10% of the amount shall be released after the receipt, installation, commissioning and acceptance of the equipment.
5. Validity of tender: Tender submitted shall remain valid at least for 90 days from the date of opening the tender. Validity beyond three months from the date of opening of the tender shall be by mutual consent.
6. Users list of the specified model, preferably from research centres within Kerala, Names of Institutes with contact person and telephone/email shall be mentioned in the bid. Performance Certificate from at least 3 research centres, preferably in Kerala shall be an added advantage.
7. Delivery and installation: Proposed delivery schedule should be mentioned clearly. Delivery and installation and training for a minimum of three people should be made at Department of Chemistry, University of Kerala, Kariavattom campus, Trivandrum- 695581, without any extra cost.
8. Service facility: The supplier should be fully equipped to render after sale service during warranty and thereafter, facility for servicing/maintenance of the equipment after sales should be clearly mentioned in the quotation.
9. The model number, make, and a printed literature of the product shall submit positively.
10. A signed compliance matrix (on specifications and conditions) to be submitted along with the quote.
11. In case of any dispute, the decision of the University authority shall be final and binding on the bidders.
12. The undersigned reserves the right to reject any or all of the tenders received without assigning any reason thereof.

**The Head**  
**Department of Chemistry**  
**University of Kerala**