

# UNIVERSITY OF KERALA

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala Legislative Assembly.  
Accredited by NAAC with A++ grade)

## DEPARTMENT OF BOTANY



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14/BOT/773/24

27.12.2024

### Re Tender Notice

**Containing General Conditions and Schedule  
for the Purchase of Horizontal Autoclave**

Name of Tenderer: **Professor and Head  
Department of Botany**

Address: **The Professor and Head  
Department of Botany  
University of Kerala  
Kariavattom Campus  
Thiruvananthapuram  
Kerala, PIN- 695581**

Signature of Tenderer

**PROFESSOR AND HEAD**  
Department of Botany  
University of Kerala, Kariavattom  
Thiruvananthapuram-695 581



## FORM OF TENDERER

From

.....  
.....  
.....  
.....

To

.....  
.....  
.....  
.....

Sir,

I/We hereby tender to supply, under the annexed general conditions of contract, the whole of the articles referred to and described in the attached specification and schedule, or any portion thereof, as may be decided by the University of Kerala, Thiruvananthapuram at the rates quoted against each item. The articles will be delivered within the time and at the places specified in the schedule.

\*I/We am/are remitting/have separately remitted the required amount of Rs.  
.....  
..... as earnest money.

Yours faithfully (Signature)

.....

(Address)

.....  
.....  
.....

Date:.....

\* To be scored in cases where no earnest money deposits is furnished.

**Important:** This tender form may be printed on A4 size paper. Editing of the pre- printed text in the tender form in any way other than as indicated (like ticking, filling in with ink/typing, scoring off in applicable material etc.) will render the tender form invalid and liable for rejection.

## GENERAL CONDITIONS

Scaled tenders are invited for the supply of the materials as specified in schedule attached below.

1. The tenders should be addressed to the **Professor and Head, Department of Botany, University of Kerala, Kariavattom Campus, Thiruvananthapuram-695581, Kerala** in a sealed cover with the tender number and name – **“Tender for the Purchase of Horizontal Autoclave (1 No)”** duly superscribed on the cover on or before **13/01/2025, 3.00 PM**.
2. Tenders which are not in the prescribed form are liable to be rejected and the cost of tender forms once paid will not be refunded. The rates quoted should be only in Indian currency. Tenders in any other currency are liable to rejection.
3. Intending tenderers should send their tenders so as to reach the officer mentioned in the tender notification, on or before the due date and time noted therein. No tender received after the specified date and time will be accepted on any account. The rates will be considered firm for acceptance till the date mentioned therein. Tenders not stipulating period of firmness and tenders with price variation clause and/or ‘subject to prior sale’ condition are liable to be rejected.
4. (a). The cost of the **tender form 400.00** (Rupees Four Hundred only) and the **Earnest Money Deposit of Rs. 1500/-** (Rupees One thousand five hundred only) should be remitted by way of Demand Draft issued from a nationalized/ scheduled bank, drawn in favour of **The Finance Officer, University of Kerala**, payable at State Bank of India, Kerala University Office Campus Branch (**SBIN0070292**). The tender documents, along with separate DD towards the cost of the tender form and the EMD should be submitted/sent to The Professor and Head, Department of Botany, University of Kerala, Kariavattom Campus, Thiruvananthapuram- 695581, Kerala. **Cheque will not be accepted**. The earnest money of unsuccessful tenderers will be returned as soon as possible after the tenders are settled.
- (b). Performance Security: If work is awarded, a Performance security equal to 5% of contract value shall be furnished by the bidder. The Performance Security will be forfeited, if the firm fails to abide the terms and conditions of the tender and subsequent execution of the work/warranty liability. It will be released on successful completion of work and general warranty period of 03 years.
- (c). Tenderers whose names are registered with Government (Stores Purchase Department) are generally exempted from furnishing earnest money for such articles for which they have registered their names. If they tender for stores other than those for which they have registered their names, they will have to furnish earnest money as in the case of unregistered firms. Registered firms will have to quote invariably in every tender they submit, the registration

number assigned to them by the Stores Purchase Department. A tested copy of registration certificate may be enclosed with the tender for reference.

(d). Small Scale Industries and Cottage Industries within the Kerala state, which are certified as such by the Director of Industries and Commerce or by the Regional Joint Director of Industries and Commerce will be exempted from furnishing earnest money against tenders for supply of stores manufactured by them.

5. If any tenderer withdraws from his tender before the expiry of the period fixed for keeping the rates firm for acceptance, the earnest money, if any deposited by him will be forfeited to University of Kerala or such action taken against him as the University think fit.
6. The final acceptance of the tender rests entirely with the University who do not bind themselves to accept the lowest or any tender. But the tenderers on their part should be prepared to carry out such portion of the supplies included in their tender as may be allotted to them.
7. In cases where a successful tenderer, after having made partial supplies, fails to fulfill the contracts in full, all or any of the materials not supplied may at the discretion of the Registrar, be purchased by means of another tender/quotation or by negotiation or from the next higher tenderer who had offered to supply already and the loss, if any, caused to the University shall thereby, together with such sums as may be fixed by the University towards damages, be recovered from the defaulting tenderer.
8. Payment: The University will release the payment only after inspecting the equipment and satisfy that the supply is as per the requirements. The payment will be made after successful completion of the supply and installation and producing invoice in triplicate
9. The contractor shall not assign or make over the contract or the benefits or burdens thereof to any other person or body corporate. The contractor shall not underlet or sublet to any person or body corporate the execution of the contract or any part thereof without the consent in writing of the Registrar who shall have absolute power to refuse such consent or to rescind such content (if given) at any time if he is not satisfied with the manner in which the contract is being executed and no allowance or compensation shall be made to the contractor or the sub-contractor upon such recession. Provided always that is such consent be given at anytime, the contractor shall not be relieved from any obligation, duty or responsibility under this contractor.
10. The tenderer shall undertake to supply materials according to the standard sample and/ or specifications
11. No representations for enhancement of rates once accepted will be considered.
12. Any attempt on the part of the tenderers or their agents to influence the University in their favour by personal canvassing with the officers concerned will disqualify the tenderers.
13. Installation and Commissioning: The items shall be installed and commissioned at

Department of Botany, University of Kerala, Kariavattom Campus. All incidental expenses should be borne by the supplier.

14. The item should be supplied within a period 30 days from date of supply order.
15. General rules relating to the purchase of materials/ equipment will also be applicable to this tender.
16. Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model, separate tenders should be submitted. If more than one model is quoted in a single tender it will be summarily rejected.
17. Technical bid and financial bid must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope. The top of cover must also contain name and address of the tenderer, telephone number and other contact details for the further correspondence.
18. Catalogue of the quoted instrument and images are mandatory.
19. Warranty/Guarantee: The supplier shall guarantee to repair/replace the items or its part –if found defective within the **warranty period of 03 years**. The entire expenditure for repair/ replaces of the item in this regard shall be borne by the supplier.
20. Service facility: Supplier should mention their details of service setup and manpower in Kerala especially at Trivandrum who are responsible for after sales service. Service support undertaking should be furnished.
21. Performance Certificate: A performance certificate and installation certificate (with names of Institutes, contact person and telephone/ email) from **minimum 5 esteemed customers** where same equipment (quoted model) supplied by you in India [Preferably South India] should be submitted along with tender documents.
22. In case of the dispute arises, the decision of University authority shall be final and binding on bidders.
23. After technical bid evaluation, the selected bidders will perform offline demo of quoted model at the Department of Botany, University of Kerala, Kariavattom Campus.
24. The undersigned reserves the right to reject or accept any or all the tenders received fully or partially without assigning any reason thereof.
25. The Validity of the Quotation will be for 180 days.
26. Rate quoted should be inclusive of all charges such as packing, forwarding, freight, loading/ unloading/ handling or installation charges and Government duties leviable, if any.
27. **Other special conditions:** Defective items, if any, supplied should be rectified/ replaced to the satisfaction of the University by the suppliers at their own cost.

Sl. No.	Name of the item	Quantity	Technical specification
1	Horizontal Cylindrical Autoclave	1	<ul style="list-style-type: none"> <li>• The design should be energy efficient with high stability.</li> <li>• Capacity- 100 L</li> <li>• Power: 230V</li> <li>• Minimum Chamber size 400mm diameter W x 900mm D</li> <li>• Inner chamber should be made of thick plate of non-magnetic stainless steel of grade SS 316fully. TIG welded Jacket is of SS 304 quality.</li> <li>• The sterilizer should have radial arm hinged single door made out of SS 304 quality plate of minimum 12mm thickness.</li> <li>• Shell insulated with mineral/glass wool covered with SS 304.</li> <li>• Even steam circulation all around the material placed inside the chamber and even heating (no air pockets).</li> <li>• Sterilizer must be hydraulically tested to withstand 2.5 times the working pressure.</li> <li>• Should have Steam Generator made of heavy stainless-steel sheet with minimum joints and bolted parts to prevent chances of leaks.</li> <li>• Suitable capacity heating elements of min 9KW load with 3 phase and low water level cut off system with SS 304 quality float switch to protect the former from burning out dry are provided.</li> <li>• The Steam generator should have removable bolted type boiler plate for easy cleaning of the deposited scale inside the generator for better efficiency.</li> <li>• Fitted with gauge glass assembly with setoff valves (to avoid spillage of hot water in case of glass tube breakage) for water level indication, water inlet and outlet valves.</li> <li>• Pressure Control to economize on power consumption and control the steam generation depending on the temperature for sterilization.</li> <li>• Doors should have self-pressure locking safety device and cannot be opened when under pressure.</li> <li>• The doors should be sealed with chamber by heat resistant Silicon rubber gaskets.</li> </ul>

- Easily readable jacket and chamber pressure analog gauges of min 100 mm diameters are mounted on the machine.
- A steam trap should be fitted in the chamber discharge line to drain the condensate automatically.
- Switch box must house the Pressure control switch, Main switch, Pilot lamps, relays etc. and mounted on the stand of the sterilizer for easy operation.
- TRIPLE SAFETY: The sterilizer must be provided with triple safety, by a pressure control switch which automatically limits the pressure to the required set valve. Two spring loaded safety valves one each at chamber and boiler level.
- A PLUG SCREEN to prevent the discharge line from choking. The plug should be easily removable for routing cleaning.
- A powerful Ejector to circulate air through the chamber. The circulating air should pass through a corrosion resistant metal wool filter.
- A Dial thermometer must be provided to show the chamber temperature.
- Automatic Vacuum Breaker must be provided to break vacuum in case of vacuum formation due to steam condensation in the jacket.
- Should have Operating Temperature and Pressure
- High Pressure Sterilizer
- Sterilizing Temp :121 °C
- Sterilizing Pressure: 1.2 to 1.5Kg/cm<sup>2</sup> (15 psi to 22psi)
- Chamber Made of SS-316, Load: 9KW,
- Heater plate: SS 304
- Pipeline: complete with SS
- Operation to be done at one single point using multiport operating valve of GM (Gun Metal).
- Machine should be ISI marked and CE marked
- **Warranty: Minimum 3 years**

I..... (Name of Authorized Person) on behalf  
of.....  
...(Company name) do hereby agree the terms and conditions mentioned in the tender and supply  
of above item as per schedule and rate mentioned in the financial bid.

Signature and Seal of Bidder

Those who are interested should send their bid (The bid **technical and financial separately**  
complete in all respects) may be submitted in a sealed cover (hard copy only) superscribed with  
"Tender for .....


.....Ref. No.....

Equipment Name .....

..... and addressed to **The Professor and Head, Department of Botany, University of  
Kerala, Kariavattom Campus, Thiruvananthapuram-695581, Kerala.**

**Kindly submit lowest quotes on or before 13.01.2025, 3.00 pm**

27.12.2024  
Kariavattom

  
Professor and Head  
Department of Botany



**PROFESSOR AND HEAD**  
Department of Botany  
University of Kerala, Kariavattom  
Thiruvananthapuram-695581