

# Department of Biochemistry

## University of Kerala

Kariavattom, Thiruvananthapuram-695 581

### QUOTATION NOTICE

No. BCH/Budget speech/biopesticideAUTO/ 2025-26

Date: 13.03.2026

Sealed quotations are invited from competent vendors/suppliers within Kerala for the supply of autoclave for Department of Biochemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram for the project - **Development of Biopesticides from the Selected Ferns of the Western Ghats, Kerala.**

#### **Technical Specification for autoclave**

##### **1. Capacity**

The autoclave shall have a minimum usable capacity of 50-55 litres, suitable for routine sterilization of laboratory glassware, instruments, and culture materials.

##### **2. Construction**

The autoclave shall be of double-walled vertical construction.

The inner chamber shall be fabricated from heavy gauge Stainless Steel (SS-304) sheet, argon arc welded to ensure corrosion resistance and durability.

The outer body shall be constructed from stainless steel sheet, finished with epoxy powder coating for corrosion protection and long service life.

The space between the walls shall serve as the steam jacket for uniform heat distribution.

##### **3. Lid Assembly**

The lid and locking ring shall be made of stainless steel (SS-304).

The lid shall be designed for steam-tight sealing with a high-temperature silicone rubber gasket fitted in the ring.

##### **4. Safety and Control Features**

The lid shall be fitted with the following:

Pressure Gauge for monitoring chamber pressure.

Safety Valve calibrated to blow at 15 PSI.

Steam Exhaust / Release Valve for controlled depressurization.

Water level indicator (preferred) for safe operation.

### **5. Lid Operation Mechanism**

The autoclave shall be provided with a foot-operated lifting mechanism for easy and safe opening of the lid.

The mechanism shall ensure smooth lifting and secure locking of the lid.

### **6. Heating System**

The autoclave shall be electrically operated with suitable immersion heating elements for efficient steam generation.

Power supply: 230 V

### **7. Control System**

The unit shall have temperature and pressure control with safety cut-off system.

Provision for automatic pressure regulation and protection against dry heating is desirable.

### **8. Finish and Structural Support**

The outer structure shall be powder coated for enhanced corrosion resistance.

The autoclave shall be mounted on a sturdy stand/legs with adequate structural support.

### **9. Certifications and Compliance**

The equipment shall conform to relevant national/international safety standards (such as ISI/CE or equivalent certification).

Electrical components shall comply with standard laboratory safety requirements.

### **10. Accessories and Supply:**

The system shall be supplied with:

Power cord with appropriate plug.

Stainless steel perforated basket / trays for loading materials.

Digital temperature controller/ indicator – microprocessor based

Instruction manual and warranty certificate.

11. Warranty: Minimum 3 years

12. There should be spare part support

## **General Terms & Conditions for technical verification and purchase of equipments**

1. Quotations from vendors who are blacklisted by State / Central Government departments and organizations are not eligible to participate in this quotation and such quotation will be summarily rejected.
2. The vendor should have registered office/Own service centre in Kerala preferably in Thiruvananthapuram.
3. Compliance Statement should be submitted separately that includes all parameters including Make and Model of the quoted item, as in specification.
4. Detailed equipment data sheet should be submitted.
5. All the items must have a warranty period, as mentioned in the specification.

### **Other General conditions**

Sealed quotations are invited for the supply of the materials as specified in schedule attached below.

1. The quotations should be addressed to Head, Department of Biochemistry, University of Kerala in a sealed cover **“Quotations for the supply and installation of One number of autoclave - for Department of Biochemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram for the project - Development of Biopesticides from the Selected Ferns of the Western Ghats, Kerala”** duly superscribed on the cover.
2. Quotations that are not in the prescribed form are liable to be rejected. The rates quoted should be only in Indian currency. Quotations in any other currency are liable to rejection
3. The quotations will be opened on **27 March, 2026** in Department of Biochemistry, in the presence of such of those vendors or their nominees who may be present at that time.
4. The final acceptance of the quotations rest entirely with the University.
5. Rate quoted should be inclusive of GST, transportation charges, installation charges and any other charges.
6. The price quoted should be applicable to the educational institutions
7. Only one model can be quoted in a quotation: If the vendor wants to quote for more than one model, separate quotations should be submitted.
8. Service facility: Supplier should mention their details of service setup and manpower in Trivandrum who are responsible for after sales service.
9. The prices quoted should clearly indicate the 4 following charges: Price of the material including taxes; Price of optional accessories if any; Customs duty (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges

10. Performance Certificate of the specified model should be attached along with the quotation.
11. The undersigned reserves the right to reject or accept any or all the quotations received fully or partly without assigning any reason thereof.
12. Please include the part about the details of the last 3/5 customers in South India to which the Unit was supplied.
13. General rules of the University relating to purchase of materials/equipment will also applicable to this quotation notice.

The sealed quotations along with Compliance Statement and the technical specification/brochure should be addressed to The Head, Department of Biochemistry University of Kerala, Kariavattom Campus, Thiruvananthapuram- 695 581 " superscribing as **“Quotations for the supply and installation of One number of autoclave - for Department of Biochemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram for the project - Development of Biopesticides from the Selected Ferns of the Western Ghats, Kerala”**.

The last date of receipt of quotations is **11.00 AM on 27 March 2026**. The quotations will be opened at the Department of Biotechnology, University of Kerala at **12.00 PM** on the same day in the presence of vendors then present.

Sd/-

**Head**

**Department of Biochemistry**

**COMPLIANCE STATEMENT**

