

Tender No: SES/MGU/T/E-NE/2026/03

Dated: 22/08/2026

### **SHORT TENDER NOTICE**

Director, School of Environmental Sciences, Mahatma Gandhi University invites sealed tenders in original including all taxes for the supply and installation of scientific equipment.

|   |                                            |                                                                                                                          |
|---|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| 1 | Name of the scientific equipment           | <b>Nitrogen Evaporator<br/>(Detailed specifications given in Annexure-1)</b>                                             |
| 2 | Earnest money deposit (EMD)                | 1 % of the Estimated Value                                                                                               |
| 3 | Tender submission fee                      | 0.2 % of the cost of tender rounded to the nearest multiple of 100, subject to a maximum of 25,000/- + VAT as applicable |
| 4 | Period of supply and installation          | Within 30 days                                                                                                           |
| 5 | Address                                    | Director, School of Environmental Sciences,<br>Mahatma Gandhi University, PD Hills PO,<br>Koattayam -686560m             |
| 6 | Last date and Time of submission of tender | <b>02/09/2026; 1 PM,</b>                                                                                                 |

Duly filled up and signed tender schedule along with relevant documents should be sent to **Director, School of Environmental Sciences, Mahatma Gandhi University, PD Hills PO, Koattayam -686560** by speed post so as to reach before the date and time specified. The cover containing the document should be super scribed the **name of the scientific equipment, tender number and last date of submission** of the tender.

**ELIGIBILITY CRIETERIA**

|   |                                                                                                                   |                                                                              |
|---|-------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| 1 | Bidder should be, a company registered in India or Registered Partnership /proprietary firms                      | Copy of valid registration certificate/Copy of Certificates of incorporation |
| 2 | Should not have been blacklisted by any of the Government entities under state / central government.              | Self-Certificate                                                             |
| 3 | The bidder should have a registered number of (i) GST where his business is located )ii) Income Tax / PAN number. | Copies of relevant certificates of registration                              |

Further details can be had from the office of Director, School of Environmental Sciences, Mahatma Gandhi University, **Email: [ses@mggu.ac.in](mailto:ses@mggu.ac.in)** on all working days during working hours. If relevant documents through speed post are not submitted with in time, the tenders will not be considered. The undersigned reserves the right to reject any or all the tender without assigning any reason whatsoever.

**Director**

**Please see the Annexures**

## ANNEXURE-1

### SPECIFICATIONS

|                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
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| <b>Nitrogen<br/>Evaporator</b> | <p>25-Position Nitrogen Evaporator / Automated Sample concentrator.</p> <p><b>1. General &amp; Functional Requirements</b></p> <ul style="list-style-type: none"><li>• <b>Application Scope:</b> Rapid and uniform concentration/evaporation of chemical and biological sample extracts using heated water bath combined with controlled vortex shearing nitrogen gas purge.</li><li>• <b>Sample Processing Capacity:</b> Simultaneous handling of up to twenty-five (25) samples with individual tube volume accommodation for 4 ml, 10 ml, 15 ml, and 30 ml.</li><li>• <b>Evaporation Technology:</b> Vortex Shearing Gas Flow Technology providing efficient solvent removal without cross-contamination or sample splashing.</li><li>• <b>Chassis Construction:</b> Heavy-gauge Mild Steel (MS) body with durable, anti-corrosive epoxy powder coating suitable for harsh laboratory environments.</li></ul> <p><b>2. Gas Delivery &amp; Manifold System</b></p> <ul style="list-style-type: none"><li>• <b>Manifold Configuration:</b> Equipped with 5 independent gas distribution stations (manifolds) capable of controlling 5 samples per bank, allowing selective row-wise shutoff to conserve gas when operating with fewer samples.</li><li>• <b>Status Indication:</b> Independent LED indication for each of the 5 gas manifolds to display active gas line channels.</li><li>• <b>Gas Pressure Range:</b> Operating regulated gas pressure from 0 to 30 PSI, with structural pressure rating up to 100 PSI (approximate).</li><li>• <b>Gas Lines &amp; Pneumatics:</b> All internal and external pneumatic tubing must be transparent, flexible, non-breakable, and inert. Fitted with high-precision industrial pneumatic connectors (Janatics / Parker or equivalent).</li><li>• <b>Nozzle Assembly:</b> Corrosion-resistant Stainless Steel (SS 316) nozzles with non-reactive Teflon (PTFE) coating for chemical inertness.</li></ul> <p><b>3. Heating &amp; Water Bath Specifications</b></p> <ul style="list-style-type: none"><li>• <b>Bath Capacity:</b> Minimum 3.0 Liters water tank capacity with engineered non-overflow design.</li><li>• <b>Wetted Parts Metallurgy:</b> Water tank, test tube rack, and gas distribution manifolds fabricated from high-grade Stainless Steel (SS 316) with Teflon coating.</li><li>• <b>Heating System:</b> Specially engineered silicon self-adhesive heating element mounted flush to the bottom exterior of the water tank for optimal, uniform heat conduction.</li><li>• <b>Temperature Range:</b> Ambient to 99°C, settable with a precision resolution of 1°C via digital keypad.</li></ul> |
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- **Thermal Protection:** Built-in auto thermal cutout sensor to protect against dry boiling and overheating hazards.

#### **4. Instrumentation, Control & Safety Features**

- **Controller:** Fully automated microprocessor-based digital control unit managing time, bath temperature, and gas delivery cycles.
- **Display Interface:** High-visibility dual LED digital display showing real-time and set parameters for both TIME and TEMPERATURE simultaneously.
- **Process Timer:** Programmable digital timer with wide operating range from 15 seconds up to 10 hours.
- **Process Indications:** Green LED operational status indicator for active process runs; integrated audio-visual buzzer and LED alarm for error indication and cycle completion.
- **Automated Interlocks:** Automatic cut-off mechanism for process timer, heating elements, and nitrogen gas flow upon cycle completion or alarm state.
- **Ventilation Interface:** Adjustable, highly efficient ventilation exhaust duct connection for safe evacuation of toxic solvent vapors.

#### **5. Power Supply & Quality Certifications**

- **Electrical Rating:** 230 V AC ( $\pm 10\%$ ), 50 Hz, Single Phase, 3 Amp operating current.
- **Quality Certifications:** Manufacturer must hold ISO 9001:2008 / ISO 9001:2015 Certification and the equipment must bear valid CE Certification.

#### **6. Scope of Supply & Standard Accessories**

- **Main Unit:** 1x 25-Position Microprocessor-Controlled Nitrogen Evaporator System (NANO-25).
- **Sample Racks:** 1x 25-Position SS 316 Sample Test Tube Rack (compatible with 4ml, 10ml, 15ml, 30ml tubes).
- **Nozzle Assembly:** 1x Complete set of SS 316 / Teflon-coated gas delivery nozzles with silicon caps.
- **Pneumatic Kit:** 1x Heavy-duty PU tubing set, quick-release PU connectors, and nozzle remover tool.
- **Ducting & Power:** 1x Flexible exhaust ducting pipe, 1x 3-pin standard power cord, and 1x Comprehensive user manual with calibration certificate.

#### **Other requirements,**

- **Tenderer should OEM or should provide OEM authorization certificate with tender Number.**
- Should provide the service center details in Kerala

A list of at least five customers in Kerala who have purchased similar instruments should be submitted with the tender.

## ANNEXURE II

### Terms and Conditions

1. Last date of submission of tender along with requisite fee, EMD and all documents is 02.09.2026.
2. The technical bid will be opened on 02.09.2026 at 3pm.
3. Tenders must accompany a copy of the “Annexure II and Annexure III” section of this document, signed and stamped on each page indicating that they agree to these.
4. The non-refundable application fee of 0.2% of cost with the chalan of 5% of it as VAT must be accompanied with tender for each instrument. The application fee must be as **D.D.** drawn in favour of **Finance officer, M.G. University.**
5. The DD/Cheque for EMD or any other must be drawn in of favour of **Director, School of Environmental Sciences (SES), Mahatma Gandhi University, PD Hills PO, Koattayam -686560m**, payable at **SBI Mahatma Gandhi University Campus Branch.**
6. Instrument should have a warrantee of at least one year and should have at least one service engineer and one application scientist based in India with onsite training facility on the same quoted instrument. Training should include operation, software applications, analysis, handling and maintenance of system.
7. A good record in supply and service to other research institutes will be considered as a positive point for a particular company. User list of similar equipment supplied recently in India should be provided.
8. Laboratory floor space, electrical power requirements, earthing, room temperature/humidity requirements etc. should be mentioned appropriately.
9. All necessary accessories should be supplied with the instrument, as per standard package offered, including complete set of service and operation manuals for diagnosis, trouble shooting, maintenance and electronic circuitry (hard and soft copies).
10. The Delivery Schedule, Payment Terms & Warranty/Guarantee etc must be clearly indicated in the technical bid. The charges for extended warranty and/or Annual Maintenance Contract after the expiry of offered warranty period should also be specified in the financial bid.
11. The price of the equipment should be quoted in Indian rupee. The total price of the equipment quoted should be inclusive of GST & other taxes if any; material cost; transportation cost; loading and unloading cost; installation cost; labour charges and all other expenses in whatsoever means.
12. Payment process will be initiated only after supply of items as per tender specifications and satisfactory installation of the items.
13. It will be the responsibility of the supplier to deliver the ordered materials at SES, Mahatma Gandhi University, Kottayam. All required materials for satisfactory installation are to be provided by the supplier at their own cost.

**ANNEXURE III:**

**TENDER FORM PART-I (TECHNICAL BID)**

Date:

From,

M/s. ....  
.....

To,

Director  
School of Environmental Sciences,  
Mahatma Gandhi University,  
Priyadarshini Hills P.O, Kottayam- 686 560,  
Kerala, India.

Dear Sir,

I/We have gone through the tendering conditions pertaining to the Tender and General Terms and

Conditions of Contract and other requirement for delivery and complete Installation and Special Conditions of Contract contained herein with this tender document. I/we hereby agree to supply the stores conforming to the tender specifications incorporated in ANNEXURE II of the tender document and also agree to abide by your General Conditions of all Contracts and Special Conditions of Contract contained in the ANNEXURE II of the Tender document.

You will be at liberty to accept any or more of the items of stores offered by us and I/we shall be bound to supply you the stores as may be specified in the Purchase Order/Contract.

I/We hereby agree to keep the price valid for your acceptance for a period of 30 days from the date of opening of Part-II (Financial bid) of the tender. Deviations to Technical specifications contained in ANNEXURE I of the tender documents are detailed in ANNEXURE-A to the tender form while deviations proposed to the General Special Conditions of Contract contained in ANNEXURE II are detailed in Annexure-B to this tender. Price applicable for the stores are indicated separately in a sealed envelope marked as financial bid of the tender.

I/We are also enclosing herewith all the leaflets catalogue etc. pertaining to the stores offered.

Yours faithfully

Stamp and Signature of the Tenderer

**ANNEXURE III: TENDER FORM PART-II (FINANCIAL BID)**

Date:

From,

M/s. ....  
.....  
.....

To,

Director,  
School of Environmental Sciences  
Mahatma Gandhi University,  
Priyadarshini Hills P.O, Kottayam- 686 560,  
Kerala, India.

Dear Sir,

In response to your invitation and as per your tendering and contracting conditions, the prices applicable for the scope of supply contained in ANNEXURE-III (TECHNICAL BID) of our tender are indicated in the format at annexure "A" to this tender.

We hereby agree to keep the price valid for your acceptance for a period of 30 days from the date of actual opening of Part-II (FINANCIAL BID) of the tender.

Yours faithfully,

Stamp and Signature of the Tenderer