CENTRAL UNIVERSITY OF KERALA
(संसद के अधिनियम, वर्ष 2009 द्वारा स्थापित / *Established under the Act of Parliament in 2009*)तेजस्विनि हिलस,
पेरिये डाक, कासरगोड-671316, केरल / Tejaswini Hills, Periye P.O. KASARAGOD-671 316, KERALA
दूरभाष/ Phone: 0467 -2309495, वेबसाइट/ Website:- cukerala.ac.in, ई-मेल / E mail:- registrar@@cukerala.ac.in

Notification No.CUK/R&D/MDPG-2025/IPG-6/SA/EVS/210/2026 Dated 11.06.2026

INVITATION FOR QUOTATIONS

Quotations are invited in single cover system from the reputed and well-established supplier for the supply and installation of Scientific Equipment to the **Central University of Kerala** as detailed below:

Sl No	Name of the Scientific Equipment & Quantity	Last Date for submission of Quotations
1	**Solid phase extraction unit with nitrogen evaporator – 1 No** (*as per the Technical Specifications, Annexure I*)	22.06.2026, 11.30am

The detailed technical specifications and quantities of the equipment shall be provided as per the **Annexure I.** The General Terms and Conditions for submitting quotations and supplying the Scientific Equipment shall be as per **Annexure II** respectively.

The quotations shall be submitted in a sealed cover to **Dr. S. Anbazhagi, Principal Investigator, Department of Environmental Science, Central University of Kerala, Periya, Kasargod – 671325**. It is requested that the quotations along with brochures and equipment manuals, if any, may be submitted to the the Assistant Registrar, Purchase Section on or before the due date. The quotations will be opened on 23.06.2026 *at 12.00 pm*. If the proposed day happens to be holiday for CUK, the quotations will be opened on subsequent working day.

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TECHNICAL SPECIFICATIONS OF 'SOLID PHASE EXTRACTION UNIT'

The offered Solid Phase Extraction Unit with Nitrogen Evaporator shall be a high performance sample preparation and concentration system suitable for applications in environmental analysis, biological sciences, pharmaceutical research, food safety testing, and chemical laboratories. The system shall be designed for efficient extraction, isolation, and preconcentration of analytes from liquid samples using solid phase extraction techniques, followed by controlled solvent evaporation using a nitrogen stream. It shall support high recovery, reproducibility, and contamination-free processing of multiple samples simultaneously. The unit shall be suitable for routine laboratory analysis as well as advanced research applications involving trace level detection of organic and inorganic contaminants. The detailed specifications are as follows:

Sl. No.	Parameter	Specification (Required)
1	System Description	Solid Phase Extraction (SPE) Unit with integrated Nitrogen Evaporator for sample preparation and concentration
2	SPE Model	Vac Elut-20 with tall glass assembly, 16 × 150 mm configuration
3	Manifold Capacity	Minimum 20 positions
4	Manifold Construction	Chemical resistant glass manifold suitable for organic solvents
5	Vacuum Pump Type	Diaphragm type, oil-free vacuum pump
6	Vacuum Capacity	Minimum 22.5 inches Hg
7	Motor Rating	1/3 HP or better
8	Flow Rate	Approx. 17 LPM @ 10 inches Hg and 40 LPM @ 0 inches Hg
9	Large Volume Loading Kit	Suitable for water samples; supplied with Teflon tubing and adapter
10	SPE Cartridges	Mega BE-C18, 1 g, 6 mL format or equivalent
11	Cartridge Adapters	Compatible with 1 mL, 3 mL and 6 mL cartridges
12	Tubing	Chemical resistant Teflon tubing and silicone tubing
13	Collection Flask	5000 mL conical flask
14	Nitrogen Evaporator Model	NANO-25 or equivalent
15	Sample Capacity	Minimum 25 samples
16	Technology	Vortex Sharing Technology or equivalent gas distribution system
17	Display	LCD digital display for time and temperature
18	Control System	Fully microprocessor based

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19	Auto Cut-off	Automatic cut-off sensor for timer, heating and gas
20	Time Range	15 seconds to 10 hours
21	Temperature Range	Ambient to 99°C
22	Temperature Control	Adjustable in 1°C increments
23	Gas Pressure Range	0 to 100 PSI approximate
24	Gas Stations	Minimum 5 independent gas lines with LED indication
25	Water Tank Capacity	Approximately 10.5 liters
26	Heater	Internal heater, adjustable up to 95–99°C
27	Construction Material	SS 316 water tank, test tube rack and nozzle manifold
28	Gas Path	Transparent, non-breakable tubing
29	Error Indication	LED indication with buzzer
30	Power Supply	230 V AC, 3 Amp compatible
31	Supplied Accessories	One SS rack for 16 × 100 mm tubes; nuts, ferrules, unions, couplings, clamps, hose pipes and cables
32	Certification	ISO certified and CE compliant
33	Warranty	As per manufacturer standard, minimum one year comprehensive onsite
34	Installation	Installation, commissioning and user training to be provided

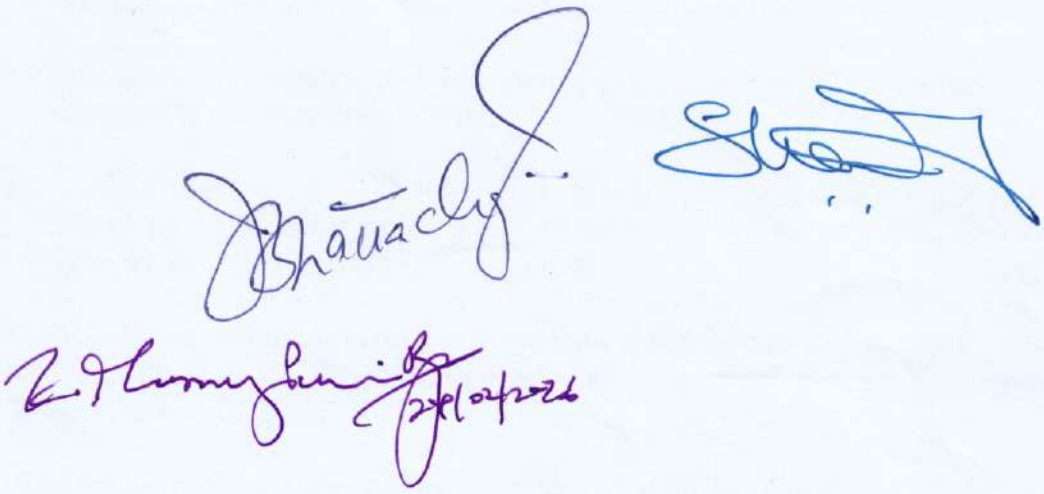
Other Mandatory Terms & Conditions:

1. Bidder should be a reputed Original Equipment Manufacturer (OEM) or Authorized dealer of the OEM who has an Authorization Certificate from the OEM to participate in the tender. Certificate from the OEM for sales and service to be produced.
2. The supplier should have proven track record of supplying Solid Phase Extraction Unit to the Higher Education institutions/research institutions/Universities. List of clients served highlighting Government clients/ Universities along with contact numbers and purchase order copies to be furnished with satisfactory performance certificate issued by Competent Authority. A list of previous installations, testimonies/satisfactory certificates and contact details shall be provided along with bid documents. The bidder should have minimum 5 Years' experience in the relevant field supplying scientific equipment's to Universities/Central Govt./State Govt. or with reputed Organizations, copies of relevant purchase orders certified by the Competent Authority in this regard have to be enclosed.
3. The same or similar Solid Phase Extraction Unit should have been installed at least five academic/research organizations in India funded by state/Central

Government. The same Solid Phase Extraction Unit refers to the same Technical Specifications as detailed in this document. The similar Solid Phase Extraction Unit refers to the similarity of 75% of the Technical Specifications.

4. Full warranty for three years must be provided with a response time of two-working days
5. Complete details of services and application support should be provided.
6. Also, the company should have a facility for technical help, troubleshooting & training on the same system.
7. Technical features for the product quoted should exclusively be supported by an authentic company catalogue and must be verifiable from the official company website. The bids not supported with an accurate/original record will not be considered.
8. Should have a factory trained Service Engineer preferably available in South India (For the quoted model).
9. The bidder should provide a proper demonstration cum training at their cost for researchers in using the instrument.
10. The bidder should ensure the complete onsite installation of the instrument at the place in a laboratory suggested by the University on or before date specified in the purchase order, and any accessory for the installation should be managed at their cost.
11. Calibration samples if any should be provided along with the equipment.
12. The quoted equipment should be ISO and CE certified product. These certificates should be issued only by the concerned agencies. Fake certificates will be summarily rejected.

Signatures of the Members:



Annexure-II

केरल केंद्रीय विश्वविद्यालय
CENTRAL UNIVERSITY OF KERALA
PERIYA, KASARAGOD-671320

GENERAL TERMS AND CONDITIONS

1. The duly filled hard copy of the quotation for the scientific equipment shall be submitted in a sealed cover with all equipment manuals and supporting documents to the following address, **Dr. S. Anbazhagi, Principal Investigator, Department of Environmental Science, Central University of Kerala, Periya, Kasargod – 671325** on or before the due date.

2. Submitting quotations by any other means other than specified above shall not be considered. The University is not responsible for any postal/courier delay.

3. The invitation notice, technical specifications of the scientific equipment, schedule of quantities and other necessary documents can be seen and downloaded from the University official website **https://cukerala.ac.in/**.

4. The supplier should be a well-established professional organizer and must have an experienced background in supplying scientific equipment to Universities and research institutes.

5. The quoted price must be in Indian rupees and shall include GST, service tax, duties, transportation of materials, custom clearance etc. and no additional claim will be entertained by University in this regard.

6. The supplier shall submit compliance certificate against each technical specification of this scientific equipment and any deviation invites disqualification from the competition.

7. The successful supplier shall be required to comply with all the instructions of the University. The decision of the University is final.

8. The successful supplier shall be required to supply the scientific equipment as per the time period stated in the purchase order. Delay in supply of the equipment shall invite Liquidated Damage charges as per GFR, Govt. of India rules.

9. Installation and training shall be completed at free of cost within THREE working days after supply of the item to the Department of Environmental Science, Narmada Building, Central University of Kerala.

10. The warranty for the supplied equipment shall be minimum THREE years from the date of installation. The supplier shall offer AMC as an optional cost beyond the warranty period three years.

11. Selection of a supplier is decided based on evaluation of technical specifications, eligibility, past performance/experience and followed by offer price (lowest price, L1). However, University

reserves the right to place purchase orders to L1. Further, the L1 supplier may be called for price negotiation.

12. On receipt of the purchase order, the L1 firm shall submit the Performance Bank Guarantee of 5% of the total equipment cost within the stipulated time as per GFR, Govt. of India. The PBG shall be valid for 38 months from the date of installation of the equipment in the University.

13. Terms of Payment:

(a). Terms of payments for Domestic Goods:

Out of the total cost of the equipment, 80% payment shall be released on submission of proof of delivery of complete goods (stores/consignee receipt), inspection report and on certification of satisfactory installation of the equipment at the consignee's premises and after "ensuring verification of the Performance Security". Balance 20% of the payment shall be released upon successful Test run of the equipment at least for a month and after ensuring that already furnished Performance Security is valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder / supplier including comprehensive maintenance THREE years warranty obligations.

Documents for Payments of <u>Domestic Goods</u>:

i. Supplier's Invoice in triplicate indicating, inter alia description and specification of the goods, quantity, unit price, total value;
ii. Packing list;
iii. Insurance certificate, if applicable;
iv. Railway receipt/consignment note;
v. Manufacturer's guarantee/warranty certificate;
vi. Inspection and installation certificate duly signed by the service engineer of the supplier and University official; and
vii. Copy of cancelled cheque/Bank account detail for making payment.
viii. Any other document as may be required by the GFR and Central University of Kerala norms

(b). Terms of payments for <u>Imported Goods</u>:

The Central University of Kerala releases the payment to the supplier through the following method:

Out of the total cost of the equipment, 80% of the value of the imported goods will be paid against inspection certificate (where applicable) and shipping documents to the University through letter of credit (LC). Balance 20% will be released within 30 days after due certification by the Purchaser/University for successful commissioning of the equipment at the premises and also, after ensuring that the furnished Performance Security is valid for a period of 60 days beyond the date of completion of all contractual obligations of the bidder/supplier including comprehensive maintenance warranty obligations.

Documents for Payments of Imported Goods: Documents, which the supplier is to furnish while claiming payment, are specified in the Letter of Credit, but usually are:

i. Supplier's original invoice in triplicate giving full details of the goods including quantity,

value, and so on;

ii. Packing list;

iii. Certificate of country of origin of the goods to be given by the seller or a recognized chamber of commerce or another agency designated by the local Government for this purpose;

iv. Manufacturer's test certificate and guarantee;

v. Certificate of insurance;

vi. Bill of lading/airway bill/rail receipt or any other dispatch document, issued by a Government agency (like the Department of Posts) or an agency duly authorized by the concerned Ministry/Department, indicating:

   a. Name of the vessel/carrier;
   b. Bill of lading/airway bill;
   c. Port of loading;
   d. Date of shipment;
   e. Port of discharge and expected date of arrival of goods; and any other document(s) as and if required in terms of the contract.
   f. Any other as may be required by the GFR and Central University of Kerala norms

14. University shall recover the GST, TDS, any other statutory taxes as per Govt. of India norms.

15. In case of any dispute, the decision of Registrar, whose decision is final and binding on the supplier.

16. In the interest of the Central University of Kerala, additional terms & conditions may be imposed or introduced to the conditions as stated above.

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