

TENDER INVITATION NOTICE

Department of Chemistry, University of Kerala, Kariavattom, Thiruvananthapuram-695581

Email: chem12uniker@gmail.com

No. DC/ST/27/Eq/2025-26 dated 14/01/2026

Sealed tenders are invited from the authorized dealers for supply, installation and commissioning of **1. Laboratory Microwave Oven . 2. Refrigerator 3. Upright Low temperature -20° C Freezer refrigerator** in the International Inter University Centre for Sensing and Imaging(IIUCSI), Department of Chemistry, University of Kerala, Kariavattom, Thiruvananthapuram-695581 in connection with formulating future activities and functioning of the IIUCSI proposed under the State Plan Grant for the year 2025-26.

Last date of submission of Quotation-30/01/2026

Item no. I - Laboratory Microwave Oven

Technical Specifications

Sl.No.	Specification	Microwave Oven
1.	Capacity	25 litres
2.	Star rating	3 or more
3.	Door type	Slide swing
4.	Turnable size	280 mm
5.	Microwave output	700-800 W
6.	Convection output	800 W (FC)+ 1000W (Grill)
7.	Power levels	6
8.	Display type	7 segment LED display
9.	Number of preset menus	5
10.	Net weight	20kg max
11.	Oven mode	3D surround microwave emission system with clock, jet defrost and jet start1

12. Performance

The flawless performance of the equipment has to be demonstrated and certified in accordance with operation qualification, installation qualification and performance qualification.

13. Warranty of the equipment and software:

A comprehensive warranty of minimum of three years from the date of installation should be provided. During the warranty period, there should be two mandatory service visits per year. On-site service with required spares/consumables shall be ensured during the warranty period.

Item no. 2. Refrigerator

Technical Specifications

Sl.No.	Specification	Description
1.	Star rating	320Litres or more
2.	Star rating	3 or more
3.	Number of doors	2
4.	Defrosting type	Frost free
5.	Large bottle shelf with spill guard	Should be provided
6.	Inverter	Should be provided
7.	Ice tray	Should be provided
8.	Open door alarm	Should be provided
9.	Net weight	Max 75kg
10.	Essential requirement	LED light, Moist fresh zone, Power cool, Power freeze, Recess handle, Smart connect inverter, Stabilizer free operation, Deorderizing filter, Digital display

11. Performance

The flawless performance of the equipment has to be demonstrated and certified in accordance with operation qualification, installation qualification and performance qualification.

12. Warranty of the equipment and software:

A comprehensive warranty of minimum of three years from the date of installation should be provided. During the warranty period, there should be two mandatory service visits per year. On-site service with required spares/consumables shall be ensured during the warranty period.

Item no. 3 -Upright Low temperature -20° C Freezer refrigerator:

System Overview

The upright -20 °C low-temperature freezer is required to provide stable and uniform sub-zero storage conditions for temperature sensitive biological and chemical reagents to ensure sample integrity and experimental reproducibility. For storing assay reagents, enzymes, antibodies, antigens to be incorporated in prefabricated microfluidic chips at controlled low temperatures, enabling reliable on-chip reactions and consistent performance of microfluidic devices.

Technical Specifications

Sl.No.	Description	Specifications
1.	Refrigeration Requirement	Upright low-temperature -20 °C freezer for storage of biological samples, vaccines, drugs, and other sensitive materials
2.	Refrigeration System	High-performance compressor-based refrigeration system with efficient evaporator and condenser
3.	Interior Construction	Stainless steel interior with adjustable shelves and interior lighting
4.	Insulation	High-density foam insulation for improved energy efficiency and temperature stability
5.	Door Construction	Double-layered insulated door with magnetic gasket and lock & key facility
6.	Temperature Control	Microprocessor-based temperature controller with digital display
7.	Alarm System	Visual and audible alarms for temperature deviation, door-open condition and in case of malfunctioning.

8.	Power Supply	220-240 V, 50 Hz, single-phase
9.	Storage Capacity	Minimum 250L
10.	Dimensions (W × D × H)	Minimum 25 × 25 × 75 inches or better
11.	Temperature Range	- 20 °C to 25 °C
12.	Energy Efficiency	Energy Class A+
13.	Defrost System	Frost-free operation
14.	Controller Type	Microprocessor controlled
15.	Locking System	Yes
16.	Quick Freezing	Available
18.	Insulation Thickness	Minimum 80 mm PUFF insulation
19.	Door Type	Reversible door
20.	Storage Configuration	Minimum 7 transparent freezer compartments
21.	Drawer Type	Pull-out drawers

22. Performance

The flawless performance of the equipment has to be demonstrated and certified in accordance with **operation qualification, installation qualification, and performance qualification.**

23. Warranty of the equipment and software:

A comprehensive warranty of minimum of three years from the date of installation should be provided. During the warranty period, there should be two mandatory service visits per year. On-site service with required spares/consumables shall be ensured during the warranty period. **Complaints should be addressed and rectified with in 24 hours.**

*Sealed tenders should reach The Assistant Professor and Head, Department of Chemistry, University of Kerala, Kariavattom, Thiruvananthapuram-695581 on or before 30/01/2026.

The cost of tender form and EMD(Earnest Money Deposit) should be submitted as Demand Draft(DD) issued from a Nationalised & Scheduled Commercial Bank,

drawn in favour of the Assistant Professor and Head, Department of Chemistry payable at SBI, Kariavattom Campus(IFSC code SBIN0070043). The amount of Tender Form Fee and EMD varies with the item of instruments to be quoted. The details are furnished below

Item of Instrument quoted	Cost of Tender Form to be remitted	EMD to be remitted
If Item no. I alone is quoted	Nil	Nil
If Item no. II alone is quoted	Nil	Nil
If Item no. III alone is quoted	Rs.472	Rs.1500
If Item no. I, II are quoted	Rs.472	Rs.2000
If Item no. II & III are quoted	Rs.590	Rs.2500
If Item no. I & III are quoted	Rs.590	Rs.2500
If Item no. I, II & III are quoted	Rs.826	Rs.3500

The cost of tender form will not be refunded and the separate DD towards the cost of the tender form and the EMD should be submitted. The compliance statement should be submitted that includes all parameters in specification, as detailed in Tender Document.

General Terms and Conditions:

1. Quotes should be inclusive of cost, freight, taxes etc. and should be delivered at the Department of Chemistry, University of Kerala, Kariavattom.
2. Incomplete & conditional quotations and quotations received after the due date will be summarily rejected without assigning any reasons thereof.
3. The undersigned reserves the right to reject or accept the quotation without assigning any reason.
4. **Installation and Commissioning:** The items shall be installed and commissioned at the Department of Chemistry, University of Kerala, Kariavattom Campus. The supplier should bear all incidental expenses.
5. **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 producing invoice in duplicate.
6. **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.
7. The model number, make, and a printed literature of the product shall submit positively.
8. A signed compliance matrix (on specifications and conditions) should be submitted along with the quote.
9. In case of the dispute arises; the decision of University authority shall be final and binding on bidders.
10. General rules relating to the purchase of materials/equipment will also applicable to this quotation.

11. Those who are interested should send their **bid along with the Tender document (sealed and signed in each page), separate DD towards the cost of the tender form and the EMD, Compliance statement and the technical specification/brochure** in a sealed cover superscribed with “Quotation for Ref. No: Equipment Name:” and addressed to The Director, International Inter University Centre for Sensing and Imaging (IIUCSI), Department of Chemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram-695581, Kerala on or before 30/01/2026. The tenders will be opened at the Department of Chemistry at 3.30 PM on the same day in the presence of vendors then present.

Sd/-

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