

**UNIVERSITY OF KERALA**

**DEPARTMENT OF CHEMISTRY**

**Tender Document**

**Tender Document for the supply of 1. Upright Low temperature -20° C Freezer refrigerator. 2. Cooling Microcentrifuge 3. Laboratory Hydraulic Pellet Press for the Department of Chemistry, University of Kerala, Kariavattom, Thiruvananthapuram-695581**

**Tenderer Details**

<b>Registered Name and Address of Tenderer</b>	
<b>Address for communication</b>	
<b>Other contact information</b>  <b>1. Telephone number Office :</b> <b>2. Mobile</b> <b>3. E mail</b> <b>4. FAX</b>	
<b>Signature</b>	

## **FORM OF TENDER**

From

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To

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.....  
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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 there of, 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 deposit 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 inapplicable material etc.) will render the tender form invalid and liable for rejection.

## **GENERAL CONDITIONS**

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

1. The tenders should be addressed to the Assistant Professor and Head, Department of Chemistry, University of Kerala, Kariavattom campus, Thiruvananthapuram in a sealed cover with the tender number and name—**“Tender for the supply of 1. Upright Low temperature -20° C Freezer refrigerator. 2. Cooling Microcentrifuge 3. Laboratory Hydraulic Pellet Press”** duly superscribed on the cover on or before **23.01.2026 ,3.30 PM.**

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.

2. 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.

a. Every tenderer who has not registered his name with the State Government (Stores Purchase Department), should send along with his tender, an earnest money deposit and tender form fee. The details of amount to be remitted is as given below.

Item of Instrument quoted	Cost of Tender Form to be remitted	EMD to be remitted
<b>Item no. I</b>	<b>Rs.472</b>	<b>Rs.1500</b>
<b>Item no. II</b>	<b>Rs.472</b>	<b>Rs.1500</b>
<b>Item no. III</b>	<b>Rs.472</b>	<b>Rs.1500</b>
<b>Item no. I, II</b>	<b>Rs.708</b>	<b>Rs.3000</b>
<b>Item no. II &amp; III</b>	<b>Rs.590</b>	<b>Rs.2500</b>
<b>Item no. I &amp; III</b>	<b>Rs.590</b>	<b>Rs.2500</b>
<b>Item no. I, II &amp; III</b>	<b>Rs.944</b>	<b>Rs.4000</b>

The amount may be paid in the form of Demand Draft (Separate DD for EMD and Tender form Fee) drawn in favour of the Assistant Professor & Head, Department of Chemistry, University of Kerala,

Thiruvananthapuram. **Cheques will not be accepted.** The earnest money of unsuccessful tenderers will be returned as soon as possible after the tenders are settled.

b. 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. Attested copy of registration certificate may be enclosed with the tender for reference.

c. 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 earned money against tenders for supply of stores manufactured by them.

3. 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.

4. 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 should be prepared to carry out such portion of the supplies included in their tender as may be allotted to them.

5. In cases where a successful tenderer, after having made partial supplies, fails to fulfil 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 hereby, together with such sums as may be fixed by the University towards damages, be recovered from the defaulting tenderer.

6. Payment will be made only after the supplies are actually verified and taken to stock.

7. The tenderer shall undertake to supply materials according to the standard sample and/or specifications

8. No representations for enhancement of rates once accepted will be considered.
9. 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 tenderer.

## **10. Schedule of Materials**

	Item	Quantity	Rate	GST Rate %	GST amount	Total Amount (Total Amount + GST amount)	Remarks
	1. Upright Low temperature -20° C Freezer refrigerator.						
	2. Cooling Microcentrifuge						
	3. Laboratory Hydraulic Pellet Press						

**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.**

**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.

### **Technical Specification and Compliance Statement**

#### **1. Upright Low temperature -20° C Freezer refrigerator:**

Sl No.	Description	Specification	Compliance (Yes/No)	Remarks
1	Refrigeration Requirement	Upright low-temperature -20 °C freezer for storage of biological samples, vaccines, 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		
17	Insulation Thickness	Minimum 80 mm PUFF insulation		
18	Door Type	Reversible door		

19	Storage Configuration	Minimum 7 transparent freezer compartments		
20	Drawer Type	Pull-out drawers		
21	Warranty of the equipment and software	A comprehensive warranty of minimum of three years from the date of installation should be provided.		

**Item no. II - Cooling Microcentrifuge:**

Sl No.	Description	Specification	Compliance (Yes/No)	Remarks
1	Temperature Range	-20 °C to 40 °C		
2	Maximum Speed	15,000 rpm (200-15,000 rpm in 100 rpm increments)		
3	Door Lock System	Electronic magnetic door locking system		
4	Pre-cooling Function	Automatic pre-cooling system		
5	Rotor Safety Alarm	Rotor imbalance detection alarm		
6	End Alarm	Sound indicator at end of run		
7	Safety alarm	Sound and visual alarm for system malfunction or operational fault.		
8	Cooling Performance	Achieves 4 °C from room temperature in less than 10 minutes		
9	Program Storage	Up to 9 programmable memory slots		
10	Rotor Safety	3-layer sealed rotors for safe centrifugation		

11	Rotor Material	High-strength aluminium alloy, fully autoclavable at 121 °C		
12	Acceleration/Deceleration	9 adjustable levels for smooth braking and separation		
13	Rotor Capacity	Compatible with 0.2 mL, 0.5 mL, 1.5 mL, 2 mL, and 5 mL tubes / PCR tubes		
14	Condensation Control	Should possess external condensation collection tank		
15	Maximum RCF	21,380×g, step: 10×g		
16	Sample Capacity	1.5-2mL×24, 0.2/0.5mL×36, PCR-8 strips×4,5mL×12,5mL×18		
17	Temperature Setting	-20 °C to 40 °C		
18	Run time	30s-99 min or minimum; HOLD (continuous running)		
19	Acceleration/Deceleration Time	25s↑25s↓ or better		
20	Motor Type	Brushless DC motor		
21	Safety Features	Dual door lock, over-speed and over-temperature protection with internal diagnostics		
22	Power Requirement	Single-phase, 100-120V/200-240V, 50Hz/60Hz.500W		
23	UPS	Equipment Compatible UPS has to be Provided		
24	Warranty of the equipment and software	A comprehensive warranty of minimum of three years from the date of installation should be provided.		

### **Item no. III - Laboratory Hydraulic Pellet Press**

Sl No.	Description	Specification	Compliance	Remarks
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			(Yes/No)	
1	Pressing system	Manual hydraulic		
2	Maximum load capacity	25 ton		
3	Pressure range	1-25 ton (10–250 kN)		
4	Pressure Indication	Analog pressure gauge		
5	Pressure control	Fine pressure regulation valve		
6	Ram stroke	30mm		
7	Platen alignment	Self-aligned pressing plates		
8	Compatible die size	13 mm		
9	Die set requirement	Two stainless steel die sets		
10	Pellet thickness range	1-10 mm		
11	Pellet uniformity	High-density, crack-free pellets		
12	Frame	Heavy-duty steel		
13	Surface finish	Corrosion-resistant coating		
14	Mounting	Bench top / Floor-mounted		
15	Pressure relief valve	Automatic		
16	Over-pressure protection	Should be provided		
17	Hand safety guard	Should be provided		
18	Die ejection tool	Should be provided		
19	Die size (Optional)	20 mm, 25 mm, 32 mm, 40 mm		

20	Warranty of the equipment and software	A comprehensive warranty of minimum of three years from the date of installation should be provided.		
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**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. **Tender Notice with duly filled Tender document with sign and seal of the firm in each page should be attached to the tender**

**Sd/-**

**The Assistant Professor & Head  
Department of Chemistry  
University of Kerala**