

## **Quotation notice (re notification)**

Sealed quotations are invited for the supply of following items to the Animal house facility of the Kerala University with relevant specifications with on or before **01-09-2022, 3.00pm**. Separate envelopes for each item should be addressed to the **Professor and Head, Department of Biochemistry** with superscription “**Quotation for the supply of .....** (mention the name of item) **to the Animal house**”. The quotation will be opened on **02.09.2022 at 2.30 PM.**.. The rate quoted shall be valid for a period of one year. Quotations should also include all the supportive work for installation, loading and unloading of the equipment. Bidders have to note the Appendix I -Technical Specifications and Appendix II - Terms and Conditions and should attach the relevant documents along with the quotation.

### **Items required**

- 1. Portable Operation Theatre Light**
- 2. UV Lamps for Operation Theatre Disinfection**
- 3. Trinocular microscope with digital camera**
- 4. Microwave oven**
- 5. -20 freezer**
- 6. Washing machine**

### **APPENDIX I- TECHNICAL SPECIFICATIONS**

#### **1. Name of the Equipment: PORTABLE OPERATION THEATRE LIGHT – (1 in number)**

<b>SL.No.</b>	<b>PORTABLE OPERATION THEATRE LIGHT</b>	
1	Intensity	≥50,000 LUX 1
2	Colour temperature	3800-5200K
3	Focussing	Fixed
4	Colour reduction index	≥90 RA
5	LED life	≥50000Hrs
6	Number of LED	≥10

7	Diameter of light	≥150mm
8	Power consumption	< 15 watt
9	Warranty/AMC	Minimum 3 year warranty /AMC

**2. Name of the Equipment: UV LAMPS FOR OPERATION THEATRE (1 in number)**

SL.No.	UV LAMPS For OPERATION THEATRE	
1	Type	UV sterilization
2	Wattage	35-55 watt
3.	Irradiance	≥140 uw/cm <sup>2</sup>
4	Operation	Battery/electrically, remote control operated
5	Voltage	220 V
6	Wavelength	185-254 NM
7	Rate/Area of disinfection	Min 400-700 sq ft
8	Warranty/AMC	Minimum 3 year warranty /AMC

**3. Name of the Equipment : TRINOCULAR MICROSCOPE WITH DIGITAL CAMERA (1 in number)**

SL No.	TRINOCULAR MICROSCOPE WITH DIGITAL CAMERA	
1	Optical Tube	Trinocular
2	Eye pieces	Wide field 10x/18mm focusable paired eyepiece. Antifungal coating, Optical design provides relief from eye fatigue and renders wide –field images with utmost clarity.
3	Objectives	Semi plan high resolution long barrel achromatic objectives 4x,10x, 40x (spring loaded), 100x (spring loaded, oil), Antifungal , anti – reflection prism

4	Focusing system	Co- axial coarse and fine controls with a focus adjustment and fine adjustment knobs. Coarse focus range 20mm and fine focus rotation 0.25mm
5	Nose Pieces	Quadruple nosepiece turret (Ball bearing type) with rubber grip, click stop for exact position
6	Condenser	Sub stage Abbe condenser N.A 1.25 with Iris diaphragm focusable with rack and pinion, continuously variable with diaphragm
7	Stage	Mechanical stage with Co-axial drive, highly smooth on ball slides, stainless steel single slide holder
8	Illumination	3W LED with variable illumination control. Up to 300,000 hours of LED life.
9	Camera	PC based USB 2.0 , 5MP camera for microscopy with supporting software
10	Power	SMPS power supply for flicker free illumination Chargeable and battery operated.

**4. Name of the Equipment : MICROWAVE OVEN ( in number)**

SL No.	MICROWAVE OVEN	
1	Power source	240 v-50 Hz
2	Power consumption	1150W
3	Output power	800 w
4	Frequency	50 MHz
5	Volume	20-25 Litre
6	Display Type	LED
7	Body material	Stainless steel
8	Cavity	Ceramic enamel, high rust and scratch resistant
9	Interior light	Yes
10	Warranty	Minimum 3 year warranty /AMC

**5. Name of the Equipment : -20 FREEZER ( in number)**

SL No	<b>-20 FREEZER</b>	
1	Capacity	300-350 litre
2	Temperature	-12 °C to -25 °C.
3	Power supply	230 V/1PH/50 Hz
4	Refrigerant	R 134 a/ R 404 A
5	Number of doors	1or 2
6	Number of Basket	5-7
7	Internal light	Should available
8	Provision for locking	Should available
9	Digital control panel with alarm	Should available
10	Warranty/AMC	Minimum 3 year warranty /AMC

**6. Name of the Equipment: WASHING MACHINE (1 in number )**

Sl no	<b>WASHING MACHINE</b>	
1	Energy Efficiency	5 Star Rating
2	Capacity	6-8 Kilograms
3	Annual Energy Consumption	≥0.08 Kilowatt Hours
4	Noise Level Drying	54 dB
5	Maximum Rotational Speed	≥1200 RPM
6	Noise Level Washing	≤54 dB
7	Form factor	Front loading
8	Control	Fully automatic
9	Warranty/AMC	Minimum 3 year warranty /AMC

**APPENDIX II- TERMS AND CONDITIONS**

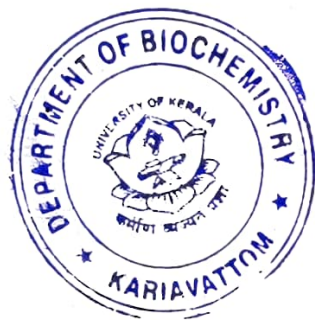
1. Separate quotation along with separate sets of all necessary documents should be submitted for each instrument. The main envelop should be superscribed: “QUTOTATION FOR SUPPLY OF ..... (ENTER NAME OF EQUIPMENT). Last date of submission .....” The date of Opening of Technical Bid and Financial Bid is indicated above.
2. For those bidders submitting quotations for more than one instrument, separate applications for each instrument (Technical Bid and Financial Bid) must be placed in a sealed envelopes. Only one model can be quoted in a quotation. If the bidder wants to

quote for more than one model separate QUOTATIONS should be submitted. If more than one model is quoted in a single quotation it will be summarily rejected.

3. The quotations received late, without required documents or incomplete in any respect / misleading will be summarily rejected.
4. The proposals shall be submitted in two parts, viz. **Technical bid and Financial bid** . The “**Technical bid**” should include the technical specifications. The “**Financial bid**” should contain the detailed price offer in prescribed format. The Technical bid and Financial bid should be placed in a sealed cover. The top of cover must also contain Name and Address of bidder, telephone and other contact details for further correspondence.
5. The models quoted should be in successful operation for at least one year as on the date of Bid opening.
6. Prices are to be quoted *FOR DESTINATION (Department of Biochemistry, University of Kerala, Kariavattom)*. The prices quoted should clearly indicate the following charges: Price of the equipment; Price of optional accessories if any; Customs duty (after submission of custom and excise exemption certificate); Customs Clearance Charges and transportation charges. **If these details are not provided it will be considered that the price quoted is inclusive of all charges.**
7. The quotation submitted shall remain valid at least for 90 days from the date of opening the quotation. Validity beyond three months from the date of opening of the quotation shall be by mutual consent.
8. The manufacturer /supplier should provide training to the laboratory personnel in the installation, operation and maintenance of the instruments.
9. Complete technical details of pre-installation requirements should be furnished along with the technical bid. Vendors are expected to supply all other installation accessories, infrastructures, facilities and services required for successful installation and smooth operation of the equipment. Vendors may conduct the site survey before installation at no additional cost.
10. The supplier should be fully equipped to render us after sale service during warranty and thereafter.
11. The University of Kerala reserves the right to accept or reject any or all quotations without assigning any reason thereof. In case of any dispute the decision of the University Authority shall be final.
12. Minimum warranty of 3 years should be quoted with main system. The supplier should provide comprehensive warranty for three years for all components without any additional cost to the purchaser from the date of satisfactory commissioning of

equipment. All equipments must be covered with comprehensive warranty as specified in technical specifications.

13. Users list of the specified model to be attached from institutional research centers within Kerala with performance certificate from at least two users.
14. Suppliers with service centers in South India, preferably in Kerala shall be an added advantage.



*[Handwritten Signature]*  
Professor & Head

**Professor & Head**  
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