



**DEPARTMENT OF BIOCHEMISTRY**  
**UNIVERSITY OF KERALA, KARIAVATTOM 695 581**

February 22, 2022

BCH/VV/NBL/Plan (BSC) 2021-22

***QUOTATION NOTICE***

Sealed quotations are invited from authorized vendors for “Biosafety Cabinet”.

The technical and financial bid complete in all respects may be submitted in the name of **Dr. Viji Vijayan, Principal Investigator, Setting Up of Neurobiology Lab (Plan Fund 2021-22), Department of Biochemistry, University of Kerala, Kariavattom Campus, Thiruvananthapuram, Kerala 695 581**. The quotation should have superscription on the envelope “Quotations for Biosafety cabinet”. The quotations should reach not later than 4.00 PM on 9<sup>th</sup> March 2022. Quotations will be opened on 10<sup>th</sup> March 2022 at 11 AM in presence of the suppliers or their authorized agents.

**Technical Specification for Biosafety Cabinet Class II A2**

Purpose - A Class II, Type A2 Biosafety Cabinet (BSC) for providing protection to personnel, product, and environmental through filtered air, laminar or unidirectional air, and a motor blower.

The BSC should have:

- A microprocessor controlled biological safety cabinet of size 3-4 ft (inner width)
- A single piece stainless steel interior
- A main body of 1.2 mm 18-gauge electro-galvanized steel with white oven-baked epoxy polyester anti-microbial powder-coated finish
- A work zone made of abrasion and corrosion resistant SS304 grade, with 4B finish
- Antimicrobial powder coating to inhibit microbial growth for safety improvement and this should be mentioned in brochure provided with the instrument
- Ultra low particulate air ULPA filters with 99.999% efficiency or better at 0.3-0.1  $\mu\text{m}$
- One Direct Current Electronically Commutated Motor (DC ECM)
- 70% more energy savings capacity

- Auto-compensating feature that adjusts blower speed in order to maintain the optimum airflow in case of filter loading.
- An exhaust
- The average airflow velocity (Inflow) should be 0.53 m/s (105 fpm) or better
- Low noise emission of 57.5 dBA (NSF/ANSI 49)
- Ample lighting on the inside and timer-connected UV light for surface decontamination
- Fluorescent lamp intensity:  $\geq 1200$  Lux - Optional UV lamp (253.7 nm)
- Caster wheels.
- LCD display
- Soft touch keys for Blower, Light, and UV lamp with LED indicator
- QuickStart mode and standby mode
- UV timer
- Audible and visual alarms
- An angled arm rest for comfortable working position
- Certification for safety cabinet: EN 12469, certificate should be attached for the quoted model
- Certification for Air Quality: ISO 14644.1 Class 3 air quality
- ISO, EN12469, CE and UL certification
- All certifications should be provided by the supplier along with the bid.
- A warranty period of 3 years and a warranty card should be provided with the supplier.
- Country of Origin Certificate is mandatory

### **Terms and Conditions**

- The price quoted should be applicable for educational institutions with GST 5%
- The items should have the warranty details
- Proper accessories have to be provided for power supply
- Operating manual has to be provided by the supplier.
- The supplier should show the authorization letter
- The supplier should show the compliance certificate indicating conformity to the technical requirements.
- Performance certificate of the specified model should be attached with the quotation
- Only one model can be quoted in a tender, otherwise it will be summarily rejected. The tenderer can quote more than a model as separate tenders.
- Prices are to be quoted FOR destination (Department of Biochemistry, University of Kerala). The prices quoted should indicate the 4 following charges: Price of the equipment including taxes, Price of optional accessories if any, Customs duty if any (after submission of custom and excise exemption certificate, Customs clearance charges, transportation charges and installation charges. If these are not provided separately it will be considered that the price quoted will be inclusive of all charges

- After receipt of instrument by Department of Biochemistry, University of Kerala, the equipment should be installed by the supplier
- Training on how to use the equipment and troubleshooting should be provided free to two persons at the time of installation.
- If any of the components are found to be defective during the warranty period, the vendor has to replace the item immediately at their own cost
- The spare parts of the instruments should be available with the supplier
- The service provider for the instrument should be available in Thiruvananthapuram district and should provide immediate service which should in no way exceed beyond 24 hours
- The PI has the right to reject any or all of the tenders without assigning any reason thereof.
- Compliance data sheet and brochure of product should be provided
- Earnest Money Deposit (EMD): EMD calculated @ 1% of the Purchase Assessment Cost (PAC-excluding GST) should be paid by the firm. The EMD should be remitted byway of Demand Draft drawn in favour of 'The Finance Officer, University of Kerala' payable at 'SBI, University Office Campus, Palayam' and to be submitted along with sealed quotations. The tenders without EMD or exemption certificate (if applicable) will be rejected.

Sd/-

**Dr. VIJI VIJAYAN**

**Principal Investigator**

**Setting Up a Neurobiology Lab**

**Department of Biochemistry**