

**UNIVERSITY OF CALICUT**  
**(Department of Zoology)**

No.

Calicut University P.O.  
Dated: 23.03.2018

**TENDER NOTICE**

<b>Tender No.</b>	34041/ZOO-ASST-2/2018/Admn (3)
Department to which the purchase is made	Department of Zoology, University of Calicut
Name of the Equipment	<b>Fume Hood</b>
Quantity required	1 No.
Last date & time of the receipt of the tender	26/03/2018 ; 12.00 p.m.
Date and Time for opening the tender	26/03/2018 ; 4.00 p.m.
Designation and address of officer to whom the quotation is to be addressed	Head of the Department, Department of Zoology, Calicut University, P.O, Malappuram Dist. PIN: 673635, Kerala, India. Mob. No. 9447108980
Date up to which rates are to be firm	90 days

- Sealed, superscribed competitive tenders (**2 bid system**) are invited for the purchase of **1 No. of Fume Hood** to the Department of Zoology, University of Calicut.
- The tender form can be had from the Purchase Division or can be downloaded from the University website (**[www.universityofcalicut.info](http://www.universityofcalicut.info)**) for which separate Chalan/ Drafts should be enclosed.
- The first part (technical bid) is to contain the relevant technical specifications and allied commercial details as required in terms of the tender enquiry documents and the second part (financial bid) should contain only the price quotation. The technical bid and the financial bid should be sealed by the tenderer in separate covers duly superscribed and both these sealed covers are to be put in a bigger cover which should also be sealed and duly superscribed.
- Sealed tenders with cost of tender form (0.2% of the cost of tender rounded to the nearest multiple of 100 subject to a minimum of Rs.400+ GST @12% and a maximum of Rs.1,500+ GST @12%) and EMD (1% of the quoted rate rounded to the nearest multiple of 100 subject to a minimum of Rs.1,500/-) drawn in favour of the Finance Officer should be submitted to **The Head, Department of Zoology, University of Calicut.**
- The bidder should have GST registration and the copy of the certificate shall invariably be attached with the quotation documents. The rate quoted should be inclusive of all charges including tax, installation charges, freight and delivery charges to the University, etc if any. The base rate, GST and other charges if any should be shown separately in the tender.

- The necessary superscription, due date for the receipt of tenders, the date up to which the rates will have to remain firm for acceptance and the name and address of officer to whom the quotation is to be sent, are noted above. Any bids received after the time fixed on the due date will be rejected. The firms which have been blacklisted already are not eligible to apply.

**Specifications:-**

Sl. No.	Item	Specification		Qty.
1	Fume Hood	<p><b>TESTING STANDARD:</b> ASHRAE 110:1995 (American Society of Heating, Refrigerating and Air Conditioning Engineers) The bidder must provide valid third party test certificate for Fume Hoods.</p> <p><b>CERTIFICATION: SEFA-8</b> (Scientific Equipments and Furniture Association) The bidder must have valid SEFA Executive membership certificate.</p>		1 No.
		<b>Dimension</b>	1500L x 750W x 2400H in mm x2 No's	
		<b>Bed Size</b>	1350 x 600 in mm	
		<p><b>Material of construction</b></p> <p><b>Carcass construction</b></p>	<p>The cabinet construction will be of chemically inert flame proof WPC (Wood Plastic Composite) panel. The panel will be of thickness 17mm. The edges will be sealed with 0.8mm PVC edge tape. (Rehau or Equivalent). The WPC panels should be made</p>	

			out of 70% of virgin polymers& the density of the panel should be minimum of 600kg/m <sup>3</sup> .	
		<b>Shutters Fronts</b>	The shutters fronts will have chemical resistance <b>PVC thermo foil</b> face <b>E1/E2</b> grade core material. The urethane acrylic coating on top of thermo foil is resistant to deformation and scratches. The thickness of shutters and drawers fronts should be minimum 16mm.The thermo foil process must be finished with vacuum press for enhanced durability.	
		<b>Door</b>	Single, vertical sliding, concealed type door, balanced with counter weights and wire rope ect.	
		<b>Powered by</b>	1HP 1380RPM TEFC 3ph Good make Motor.(In - built)	
		<b>Ducting</b>	Rigid ducting of FRP of 200mm dia. 10 feet 4mm thick rigid FRP pipe will be provide with suitable rain-hood.	

		<b>Baffle</b>	<p>A stable, non-adjustable with a single slot on the back baffle to aid in distributing the flow of air into and through the hood.</p> <p>The baffle shall be spaced out from the back liner and shall be removable for cleaning.</p>	
		<b>Impeller</b>	Dynamically balanced FRP Impeller	
		<b>Baffled by</b>	3 MM thick FRP sheet	
		<b>Centrifugal Blower</b>	<p>Silent high efficiency remote blower consisting of continuous rating motor and chemical resistant impeller. The blower is designed to give a face velocity at safe working height as per the international safe velocity norms (ANSI). The exported face velocity at open sash is 100FPM. The blower body is FRP UV treated high density and chemical (corrosion) resistant and is mounted on a metallic stand.</p>	
		<b>Casing</b>	6 mm thick FRP Bisphenol 'A' fumerate	

			Resin.	
		<b>Coupling</b>	Direct	
		<b>Sash</b>	The sash shall be of glass with vertical rising frame. The bottom of the sash frame shall have a full length handle. The sash be counter operation. The glass panel shall be 5mm toughened glass.	
		<b>Bottom Arrangement Carcass construction</b>	The cabinet construction will be of chemically inert flame proof WPC (Wood Plastic Composite) panel. The panel will be of thickness 17mm. The edges will be sealed with 0.8mm PVC edge tape. (Rehau or Equivalent). The WPC panels should be made out of 70% of virgin polymers& the density of the panel should be minimum of 600kg/m <sup>3</sup> .	
		<b>Shutters Fronts</b>	The shutters fronts will have chemical resistance <b>PVC thermo foil</b> face <b>E1/E2</b> grade core material. The urethane acrylic coating on top of thermo foil is resistant to	

			deformation and scratches. The thickness of shutters and drawers fronts should be minimum 16mm. The thermo foil process must be finished with vacuum press for enhanced durability.	
		<b>Suction Expected</b>	800 - 1000 cfm	
		<b>Colour</b>	<b>IVORY/BLUE</b>	
		<b>Flooring</b>	1800mm thick dished <b>Black Granite Top</b> with skirting will be provided.	

## **AMENITIES (Included):**

### **Lighting**

1 No. 4'3m Tube light of 20 volts will be provided.

### **Electrical Arrangements**

The hood super structure shall be fully wired. It also has **2 No's**. Electrical sockets and switches of (230v, 15/5A, 50HZ)

### **Cable Entering port**

For easy access of cable of from fume hood to electrical sockets.

### **Sink & Water tap**

**1 No of FRP Sink** (12"x 10") with single way water tap will be provided.

**Note:**

**Warranty :**

Warranty for a minimum period of one year must be quoted.

**3D Diagram:**

A 3D Diagram must be provided along with the technical bid.

**General conditions:**

1. All instruments should be compatible with Indian power supply.
2. Comprehensive on site warranty for minimum 2 year from the date of installation.
3. Stabilizer/UPS of suitable configuration, wherever needed, should be supplied along with equipment without any additional cost.
4. Technical specifications and requirements may be subject to change based on the recommendation of the technical committee.
5. The bidder should clearly mention the make and model no. of the items quoted and Country of origin.
6. The bidder must attach the technical data sheet of the items being quoted in the tender.
7. **All Kerala Government purchase rules will be applicable to the tender.**



**Dr. Y. Shibu Vardhanan**  
HEAD of the Department  
Department of Zoology

Copy to: The System Analyst (to publish in the University web site)