

# UNIVERSITY OF KERALA

(Established as University of Travancore by the Travancore University Act in 1937 and reconstituted as University of Kerala by the Kerala University Act of 1957 and presently governed by the Kerala University Act of 1974 passed by the Kerala Legislative Assembly.  
Accredited by NAAC with A grade)

## DEPARTMENT OF BOTANY



KARIAVATTOM  
THIRUVANANTHAPURAM 695 581  
KERALA, INDIA  
Phone +91-471-2308301  
Tele-fax: +91-471-230 8301  
Web site: [www.keralauniversity.ac.in](http://www.keralauniversity.ac.in)  
Email: [unikerbot@rediffmail.com](mailto:unikerbot@rediffmail.com)

14/Bot/Equi/69/18

9/10/2018

### QUOTATION NOTICE

Quotations are inviting for the following items in the project on 'Centre for Biodiversity Conservation & Establishment of Gene Bank for Wild ornamental plants of western Ghats of Kerala' in the Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram.

Name of Equipment	Units	Specifications
Stereo zoom Microscope	1	Functions: 10x eyepieces, 4.4:1 Zoom Stereo Microscope with built-in 5 M Pixel HD digital camera, 8x-35x zoom range, 10x/20 mm high eye point, non-removable eyepieces, 50-75 mm Interpupillary distance, 100 mm working distance, student-proof, all-in-one, plug and play design, no removable parts, tool-free tension control, built-in 25,000 hour 6500 K Reflected, 4500 K Transmitted, true daylight, constant-color temperature power LED illumination for BOTH reflected and transmitted light, variable light intensity control for reflected and transmitted light. Reflected light transmitted light can and be used separately or simultaneously, 3 directional reflected illumination (fill, top and oblique), power switch located on back of stand, auto-shutoff after 120 minutes, sealed stage plate, sealed light control panel on rear of stage area, built in SD card slot, built-in universal voltage stabilizing power supply accommodates 100-240 V input, Camera functions: Camera should be integrated - HD Mode for Live image 1920x1080p directly to an HD display or for image capture to SD card (No PC required), - PC mode for use with PC and Imaging Software .. Network mode for direct connection using Ethernet cable - Camera is integrated into the microscope stand - Light distribution: 50% visual / 50% camera - Interfaces: USB2, HDMI, Ethernet - Maximum Image size 5.0 Mpixel (2592 x 1944)

## **Terms and Conditions**

- The price quoted should be that applicable for the educational institutions.
- The items should have an onsite warranty for at least 2 years.
- The firm should be capable to extend immediate service, which in no way should not exceed 24 hours.
- Prices are to be quoted FOR DESTINATION (Department of Botany, University of Kerala, Kariavattom. The prices quoted should clearly indicate the 4 following charges: Price of the equipment including taxes; Price of optional accessories if any; Customs duty (after submission of custom and excise exemption certificate); Customs Clearance Charges, transportation charges and installation charges. If these details are not provided it will be considered that the price quoted is inclusive of all charges.
- For those bidders submitting tenders for more than one instrument, separate applications for each instrument (Technical Bid and Financial Bid) must be placed in individual sealed envelopes and these envelopes must be placed inside a bigger envelope.
- Only one model can be quoted in a tender. If the tenderer wants to quote for more than one model separate tenders should be submitted. If more than one model is quoted in a single tender it will be summarily rejected.
- Performance Certificate of the specified model should be attached along with the quotations.

The bid **technical and financial** separately complete in all respects may be submitted to Associate Professor & Head, Department of Botany, University of Kerala, Kariavattom, Thiruvananthapuram 695 581, E mail ID: [unikerbot@rediffmail.com](mailto:unikerbot@rediffmail.com) on or Before **24.10.2018 4.00 PM**.

Dr. SuharaBeevy S.  
Associate Professor & Head

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Name of item	Units	Specifications
Tissue Culture Racks With trays	1	<b>Rack Specification</b> <b>Construction:-</b> Bottom Frame:- MS channel 30x75mm Side Frames:- 25x50mm MS tubular 16 SWG Tube and Chock Mounting:- 12x55x12mm C Chanel constructed out of 1.6mm MS Sheet, Tray Mounting Chanel:- 30x20mm L and T Chanel constructed out of 1.6mm MS Sheet, Control panel:- mounted on side with MCB'S contactor and Digital timer Painting:- Powder coated classic white Fittings:- MS coated Bolts Movement:- on poly wheel for easy hand movement <b>Electrical:-</b> Tube:- Philips 20 W 2000 Lumens LED Tube Timer: - programmable Digital Contactor: - SSR 25 Amps Control:- 06Nos of 6A MCBs branded one each for each row Wiring:- Main input wire 2 Sq.mm Havels/ Finolex or similar make in PVC casing Tube to chock:- 16 stand tube light wire <b>ELECTRICAL CONTROLS FOR EACH RACK</b> MCB for each row to switch ON / OFF the lights (Branded)

		Digital timer fixed on the rack
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Name of Item	Units	Specifications
Arch type mist chamber with timer controlled misting facility	1	<p>Size of the mist chamber 12 m L X 9 m w = 108m<sup>2</sup> area, single door</p> <p>Centre height 3.50mtr Total width 9mtr, Gutter height 2.00mtr Span width 9mtr, Total length 1,2mtr Bavleneth 4mtr</p> <p>Pipes- All pipes which used are 2mm thick hot dipped zinc galvanized (275gsm) with ISI mark of B class grade. Clamps- All clamps are 3mm and 2mm thick 275 gsm galvanized.Nuts and Bolts - All nuts and bolts of stainless steel 202 grade, Self drilling screws - All self-drilling screws of stainless steel 202 grade, u.v sheet -.200 micron thick, UV stabilized Light transmission: 86%, light diffusion 55%, anti-dust, anti-drip, Reflective - cooling, diffused 70 % anti-dust, anti-dip/fogg, UV stabilized 200 micron thick, expected temp reduction of 30°C compared with other UV films. Shade net - 35% color red Monofilament light diffusing net-90 GSM thick, Water tank 750 ltr with fittings, Misting facility with brass nozzles, monoblock pump, pipes and fittings for setting mist nozzles, timer controlled misting facility.</p>

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