

UNIVERSITY OF CALICUT

Department of Zoology

203317/Research-A-Asst-3/2017/Admn

10/07/2018

TENDER NOTICE

Tender No.	203317/Research-A-Asst-3/2017/Admn
Name of equipments	1. Stereo-Zoom microscope with camera. 2 Trinocular Microscope with drawing tube and phase contrast. 3. Computer 4 .printer.
Department to which the Purchase is made	Zoology
Quantity required	1
Last date & time of the receipt of the Tender	24/07/2018 4PM
Date & time of opening the Tender	28/07/2018 11AM
Designation and address of the officer to whom the Tenders are to be sent.	Dr. Sheeja U M Principal Investigator, DST assisted WOS-A project, Dept. of Zoology, University of Calicut Mob: 9072158269, Email: sheeja.clt@gmail.com
Date upto which rates are to be firm	90 days from the date of opening the tender
Superscription	Tender for supply of 1. Stereo-Zoom microscope with camera. 2. Trinocular Microscope with drawing tube and phase contrast. 3. Computer 4 .printer. Tender No. 203317/Research-A-Asst 3/2017/Admn

- Sealed, superscribed competitive tenders are invited for the purchase of **1. Stereo-Zoom microscope with camera. 2 Trinocular Microscope with drawing tube and phase contrast. 3. Computer 4 .printer** to the DST assisted WOS-A project under the Principal Investigatorship of Dr.Sheeja U M, Dept.of Zoology.
- The tender form can be downloaded from the University website (www.universityofcalicut.info) for which separate chalan/Drafts should be enclosed.
- 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 Principal Investigator , Dr.Sheeja U M, Dept.of Zoology, University of Calicut.
- The amount quoted should be inclusive of all charges and installation charges, if any. The rates quoted should include taxes and all other charges including charges for delivery of the articles at the offices and departments of University of Calicut .
- 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 tender is to be sent, are noted above. Any bids received after the time fixed on the due date will be rejected. The firms which has been blacklisted already, are not eligible to apply.
Specifications

DETAILS OF EQUIPMENTS TO BE PURCHASED UNDER PROJECT ENTITLED “ BIOSYSTEMATIC STUDIES OF PREDATORY MITES (MESOSTIGMATA: PHYTOSEIIDAE) ASSOCIATED WITH ECONOMICALLY IMPORTANT PLANTS OF NORTH KERALA”.

1.TRINOCULAR STEREO ZOOM MICROSCOPE with HDMI Retina Screen Camera.

- Viewing Head : Trinocular Head, inclined at 45°, 360° rotatable
- Eye Piece: Extra wide field Eye Piece EW10x/22mm and 20x /22mm with diopter adjustment.
- With 2x Auxillary objective
- Magnification : .8x – 100x
- Zoom ratio : 6.3 : 1
- Gradual Zooming
- Working Distance : 115mm
- Interpupillary Distance : 57mm – 75mm Glass Insert : Diameter 100mm

- Illumination : Incident LED Light – 6800 lux and ring light.
- Transmitted LED Light – 2100 lux
- **5MP CMOS HDMI USB 2.0 Camera with Annotation & Measurement Software and 11.8 inch HD Monitor**
- High definition Microphotography projection system with HD Monitor and Image Analysis Software
- HDMI scientific imaging solution with a 1/3” inch sensor Micron MT9P001
- 2.2 x 2.2 Pixel size (um) color camera
- 5.0 MP effective pixel and a max resolution of 2592 x 1944
- PC and MAC compatible
- Scan mode is progressive with a rolling shutter
- Interface 1 is HDMI
- Interface 2 is USB 2.0
- Frame rate is 15 fps (frame per second) /1080P HDMI
- 15fps (frame per second) /1080p by USB 2.0, frame rate streaming direct to monitor
- Color Depth is 24 Bit
- A/D 8bit
- Exposure control is Manual /Auto
- Integration time is 1ms-10s
- White balance is Manual/Auto
- Responsivity 1.4V/ lux-sec
- Dynamic range is 70.1dB
- SNR is 38.1dB
- Optical Port : Standard Female C” mount thread
- Capture : H4SD card(4G) Included
- Built in Software: Cloud 1.0 version

2. **TRINOCULAR RESEARCH MICROSCOPE with Drawing Tube and Phase contrast.**

- **Total Magnification:** 40X-1000X.
- **Viewing Head :** Compensation free Trinocular Head
- **Eye Piece :** WF 10x/20mm, 20x

- **Nose Piece** : Quadruple Nose piece Reversible.
- **Objectives** : Plan Achromatic objectives 4x, 10x, 40x, 100x (oil) [SL].
- **Focusing** : co-Axial Coarse and fine focusing system.
- **Stage** : Double layer mechanical stage 140x140mm
- **Moving Range** : 75mmx50mm.
- **Illumination** : LED Illumination
- **Condenser** : Abbe type N.A 1.25 with IRIS Diaphragm and filter
- **Note: Upgradable with Camera, Fluorescent, , Dark field and Polarizing attachments**

3. COMPUTER and softwares compatible with the above stereozoom and research microscope with the following specifications:

Core i3 All in One Desktop Computer

- Intel H110 Chpset.
- Intel Core i3-7100 Process (3M Cache. 3.9GHz) 7th Gen.
- Graphics: Built into CPU.
- Integrated High Definition (HD) Audio
- 4GB DDR4 – 2133MHz – Minimum 2 DIMM Slots with one free slot for future upgrade. Support to 32 GB
- 500 GB STATA HDD (7200 RPM)
- DVDRW
- Gigabit Ethernet with WOL and IPv6.
- Rear Ports: USB 2.0, one ethernet (R.J-45), one HDMI out port, one optional serial (0-pin)
- Side Port: Min. Two USB 3.0, microphone (stereo, 3.5mm), headphone (stereo, 3.5mm)
- Card Reader Slot supporting media cards.
- USB Keyboard
- Optical USB Mouse
- Support Kensington lock.
- Trusted Platform Module (TPM 1.2- complaint) USB Ports.
- DISABLE or READ Only Access for specific devices like flash drive/ USB HDD through the BIOS.
- 120 watts adapter, autosensing.
- 19.5" HD or higher, Full (resolution: 1600 x 900) 16.9 aspect ratio. 1000:1 contrast ratio. (Horizontal 170 degree vertical 160 degrees) or higher.
- Preloaded Linux OS.
- Simple Network Monitoring Protocol support through O/S.
- RoHS-compliant- ENERGY STAR®6.1, TCO Certified display.

Printer - All in One(Scanner, Copier, Printer)

- Printer Type: Laser (All in One- Multi-type)

- Interface: USB
- Print Quality: 600 x 600 DPI
- Internal Memory: 64MB
- Refill Type: Toner Cartridge
- Model Series: Image Class
- Print Speed: 18 ppm
- Output Tray Capacity: 100 sheets
- Input Tray Capacity: 150 sheets
- Media Size Supported: A4
- Input Tray Type: Standard Cassette
- Power Consumption- Standby: 2.5 W
- Active : 450 W

Terms & Conditions

- The base rate, GST and other charges if any should be shown separately in the tender.
- The bidder should have GST registration and the copy of the certificate shall invariably be attached with the quotation documents.
- The bidder should clearly mention the make and model of the items quoted.
- The bidder must attach the technical data sheet of the items being quoted in the tender.
- The bidder should have local presence with service centre in kerala.
- A comprehensive on-site ,warranty of minimum 1 year should be provided for the product.
- The successful bidder must furnish a performance security deposit @ 5% of the total value of the contract and execute an agreement at his own cost in Stamp Paper worth Rs. 200/- for the satisfactory fulfillment of the contract where the contract value is above Rs. 1,00,000/-. The EMD and performance security are refundable
- The successful bidder shall deliver the articles within a period of ten days of receiving the supply order.
- All Store Purchase Rules of Kerala Government will be applicable to the quotation.

Deputy Registrar
(DoR)

For REGISTRAR

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