



KERALA AGRICULTURAL UNIVERSITY

COCONUT RESEARCH STATION,
BALARAMAPURAM

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No. B/207/2022

Date: 27.01.2025

LIMITED TENDER NOTICE

Sealed limited tenders are invited from competent firms for the supply of "Zoom Stereo Trinocular Microscope and Camera with Software" of the reputed companies as detailed below. The tender will be accepted upto 10.02.2025 on 2 PM. The tenders received after the stipulated time will not be considered at any circumstances. The received tenders will be opened at 3 PM on the same day.

1. Specifications: Zoom Stereo Trinocular Microscope

Magnification Range extends from 6.7X to 45X (using 10X Eyepieces) & from 13X to 90X with a zoom ratio of 6.7:1 Outstanding depth of field and flatness, high fidelity colour reproduction, sharp, clear, high-contrast images and comfort View eyepieces for greater comfort and faster work

Optical Body	Trinocular	
Zoom Ratio	6.7:1	
Eyepiece (Paired)	SWF 10X (F.N 22)	
Magnification Range	0.67X – 4.5X	
Magnification Range	1.3X – 90X	
Eyepiece (Paired)	SWF 20X (F.N 22)	
Magnification Range	1.34X – 9X	
Magnification Range	2.68X – 18X (with 2X Axillary Objective)	
Total Magnification Range	0.67X – 180X (using with 2X Auxiliary Objective & 20X Eyepieces)	
Working Distance	110mm	
Video Camera adaptability	C-mount (0.5X built in)	
Stand	LED Reflected / Transmitted illumination Stand	
	Transmitted illumination	LED
	Reflected illumination	LED
Life span of LED	6000 Hours	
Input rating	100-120V / 200-240 V -0.15/0.1 A. 50/60Hz	
Interpupillary Distance adjustment	52mm - 76mm	
Tube Inclination Angle	45°	
Diopter adjustment	+/-5diopter	

Specifications: Digital CMOS 25MP Camera & Software with 0.5X Optically Corrected C-Mount Adapter for attaching with Trinocular Zoom Stereo Microscope

Digital 25 MP CMOS Camera with USB Connectivity, USB 3.0 interface measuring high speed data transferring capacity, Advanced video & Image Processing application, custom programmable, integrated metal alloy housing and Operating System with Display unit and software installation processor

Interface	USB -3	
Application	Bright field	
Sensor size	1 / 2.3"	
Image sensor	CMOS 25 MP	
Sensor type	Aptina CMOS sensor	
Pixel size	1.2 x 1.2 micron	
Resolution Maximum	4928 x 4928 Pixels	
FPS/Resolution	12 @ 4928 x 4928 46 @ 2464 x 2464 100 @ 1648 x 1648	
Dynamic range	65.3dB	
Signal Noise ratio	35.5dB	
Binning	1 x 1, 2 x 2, 3 x 3	
Exposure time	0.013ms to 1500ms	
Spectral range	380-650nm (with IR filter)	
White balance	ROI white balance / Manual temp – Tint Adjustment	
Image processing % Enhancement	Image calibration, Measurement, Image control, Adjust & capture functions	
Power supply	DC 5V over PC USB port	
Software Environment	Operating system	Microsoft Windows 10 /11 (64 bit)
	CPU	Equal to Intel dual core2 2.8GHz Or higher, RAM 16 Gb or more, USB port, USB3.0 High- speed port
	Monitor	17" or larger
Electronic interface	PC / Laptop	USB – 2 / USB -3 for Windows
Microscope Adapter	0.5X Optically Corrected C-Mount Adapter for attaching the Camera with the C-Mount Port of the Trinocular Microscope Display	
Calibration Slide	Calibration slide with 1 Div: = 0.01mm for calibrating measurements in various units against different objective magnification of Microscope	

Terms & Conditions:

The bidders may submit the tenders on their own papers.

1. The sealed cover containing the tender document should be superscribed as "**Limited Tender for Zoom Stereo Trinocular Microscope and Camera with Software**" and addressed to The Associate Professor & Head, Coconut Research Station, Balaramapuram.
2. Late and incomplete quotations will not be considered at any circumstances.
3. Earnest Money Deposit (EMD) @ 1% of the total rupee equivalent cost of the quoted items drawn in favour of the Associate Professor and Head, Coconut Research Station, Balaramapuram payable at the SBI, Uchakkada. Late and incomplete tenders and tenders without EMD will not be accepted. Firms which are exempted from payment of EMD should

furnish copy of the current valid certificate from the Store Purchase Department, Government of Kerala.

4. The accepted bidder should remit 5% of the accepted amount as security deposit and it will be released only after the expiry of warranty period.
5. The rate quoted, tax, transportation, loading and unloading charges, installation & fittings and other charges if any should be separately stated.
6. Warranty should be clearly specified.
7. The firm should have service personal in Kerala preferably at Trivandrum. The firm should be nationally or internationally reputed and should be ISI/ CE Certified.
8. The lowest rate offered as per the specifications will be accepted if reasonable.
9. Negotiations, if any, will be conducted only with the person / firm who has offered the lowest price.
10. The supply order will be issued on the acceptance of the tender and the invoice should be addressed to the Associate Professor & Head, CRS Balaramapuram. The successful bidder should supply the item within 15 days from the date of the receipt the supply order and the payment will be effected only after satisfactory supply of the items.
11. If any hartal/strike any unexpected holidays occur on the date of opening of tender, the tender will be opened at the same time on the next working day. The decision of the undersigned in accepting the tenders shall be final and binding.
12. The rules and regulations pertaining to Government quotations will be applicable to this quotation.
13. The items should be delivered and installed at the expenses of the successful bidder.
14. The firms/companies bidder should ensure onsite service support for the equipment.
15. Withdrawal of tenders after its acceptance of failure to supply the item or not according to the specification will entail cancellation of the tender.
16. All parts of the instrument, accessories, and supporting instruments should be covered under the warranty. During warranty period, a minimum of 2 services have to be done per year.
17. Associate Professor and Head, Coconut Research Station, Balaramapuram shall have full power to accept or reject the tender without assigning any reason, to do so.
18. All the rules and regulations applicable to Government tender will be applicable to this tender also.
19. The Tender should mention the email ID, GST and telephone/mobile number of the firm on the Tender. If GST number is not issued, the statement for the same may be submitted separately.


ASSOCIATE PROFESSOR & HEAD

Copy to :-

1. Asst. Professor (Farm i/c);
2. Asst. Professor. (Vety i/c)
3. Farm Manager Gr. I
4. Administrative Assistant
5. KAU Website
6. Stock/notice board