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**Project Coordinator & PI: NMPB Project on Survey of Pests and Diseases of Medicinal Plants in West Bengal**

Ref. No. NMPB/2017-18/7(2<sup>nd</sup>)

Date: 07.03.2018

Ref. e- Tender ID: 2018\_BCKV\_161454\_1

Project Investigator of the Ad-hoc Research Project entitled “*Survey of Pests and Diseases of Medicinal Plants in West Bengal*” funded by National Medicinal Plants Board, Ministry of AYUSH, Govt. of India is inviting e-tender from competent and bonafide vendors/ parties/ distributors/ dealers/ agents/ manufacturers having registration of GST for supply of **Trinocular Research Microscope** to the University as per specifications appended below **within 16.03.2018**

(i) Preparation of Bids: - The tenders should be submitted in two-bid system (i.e. Technical bid and Financial bid) with validity of **2 months**.

(ii) Submission of e-tender: - The tender shall be submitted on line **within 16.03.2018**.

(iii) Opening of the tender: - The technical bid will be opened by the Central Purchase Committee, BCKV duly constituted for this purpose. After scrutinizing, the financial offer/bid of technically qualified vendors will be opened.

(iv) Prices: - The prices of items should be quoted in net per unit (including all taxes and duties, etc.). However, University will provide valid DSIR. Quotation must include all essential accessories (as mentioned for each item). Without essential accessories tender will be considered as incomplete. Quoted price must be inclusive of installation, extended warranty of two years beyond standard manufacturers’ warranty. Quoted rates must be FOR DESTINATION (including packing, insurance and delivery charges up to the laboratory at BCKV, Mohanpur) with satisfactory installation and demonstration.

(v) EMD: - Vendors are required to pay the requisite amount of Rs.10000/- (Rupees ten thousand) only as EMD in draft. Scanned copy of the requisite draft must be uploaded as the supporting document for each item during submission of e-tender. **Without EMD quotations will not be considered for technical or financial comparison.** Draft must be in favour of ‘**Bidhan Chandra Krishi Viswavidyalaya**’ payable at Kalyani (IFSC: SBIN0001082). EMD exemption certificate (if any) must be uploaded during e-tendering. However, bidders are requested not to send the original DRAFT during tendering process.

(vi) Supporting documents:-

(a) Bid papers should accompany authorization certificate from original manufacturer, trade license, GST registration, etc;

(b) Scanned copy (self attested) of the original supporting document in favour of the specification-claim for each item must have to be uploaded separately;

(c) Scanned copy of supporting document of assured after sales services in Eastern India and availability of spare parts need to be uploaded.

d) Price bid of the vendors will be compared only if technical specificity as appended against each item is fulfilled. The Viswavidyalaya authority reserves the right to accept or reject any tender without showing any reason.

Item/Equipment	Qty.	Details of Specification
<p><b>1. Trinocular Research Microscope (Anti-Fungus type) for Bright field, Dark field and Epi-Fluorescence observation)</b></p>	<p><b>1 (One)</b></p>	<p><b>A.</b> Chromatic aberration free Infinity corrected optical system or better with parfocal distances more than 50mm. Feature like FLY EYE Lens or equivalent. Built-in lamp house for High Luminescent white LED Eco illumination, LED 50,000 hours or more, Pre-centered and Light intensity control. Dual Coarse focus 10mm/rot, Fine focus 0.2mm/rot, Focus Stroke 25mm or better, Re-focusing mechanism and torque adjustment, Focus locking. Field diaphragm, set of adjusting tools, Immersion Oil and Dust Protection Cover. Trinocular Tube with 22mm FOV (2 way light distribution. Eyepiece: Port 100:0 /0:100). Eyepiece Lens 10X (FOV 22mm) with diopter adjustment in both. Eyepiece micrometer in one eyepiece. Sextuple/Septuple Nosepiece that can hold multiple objectives simultaneously. Universal Condenser, NA 0.90 with 6 positions (Bright Field, Dark Field, Phase contrast, Fluorescence etc.). Right Handle Ceramic Coated Stage with slide Holder, Cross travel 76(X) X 52(Y) mm or better with Vernier calibration, Stage handle height and torque adjustable.</p> <p>OBJECTIVES (For Brightfield): (a) Achromat 4X N.A. 0.10, W.D. 28.0 mm or better, (b) Achromat 10X N.A. 0.25, W.D. 6.0 mm or better and (c) Achromat 20X N.A. 0.40, W.D. 1.2 mm or better.</p> <p>OBJECTIVES (For Brightfield, Darkfield, Polarizing and Fluorescence): (a) Fluor 40X N.A. 0.75, W.D. 0.60 mm + Spring-loaded or better and (b) Fluor 60XA N.A. 0.85, W.D. 0.38-0.29 mm Spring-loaded, Cover glass corr: 0.11-0.23 mm or better.</p> <p>EPI FLUORESCENCE attachment with precenterd mercury fibre illuminator. Four position Fluorescence turret attachment with noise terminator and 3 intensity control filter. Optical fiber to carry the light to microscope body. 130 Watt Hg Lamp illumination, pre-centered, Six position intensity control, Life 2000 Hrs approx. All the filters should be band pass to avoid cross talk. DAPI Filter Cube, FITC Filter Cube, TRITC Filter.</p> <p><b>System must be upgradable to housing drawing tube, high resolution colour camera and imaging software in future.</b></p> <p><b>B. OPTIONAL ITEMS</b> (compatible to the above Microscope): (a) Digital CMOS camera: 5.5 Mega Pixel or more, CMOS Sensor size 6mm X 4.52mm, Live mode 14fps-28fps, Binning 2X2, ISO50 (50-3200) or better, Exp 120µsec-25sec or eqv. Direct Connectivity to Laptop/Computer. (b) Standard image analysis soft ware and (c) Drawing Tube attachment.</p>