Notice Inviting Quotation for Procurement of Instruments for Research Purpose for the Dept. of Botany, WBSU.

The University intends to invite rates through sealed quotations for procurement of the following items for the Department of Botany, WBSU from interested agencies or parties or suppliers or distributors or manufacturers.

Details of Items/Specifications:

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>Item Name</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Trinocular Research Microscope with CCD Camera attachment and Image capture and Analysis software.</td>
<td>01 No.</td>
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<tr>
<td>2</td>
<td>Eppendorf Research Plus pipettes:</td>
<td>01 No.</td>
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<tr>
<td></td>
<td>a. Research plus 3-pack (0.5-10 µL/10-100 µL/100-1000 µL)</td>
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<tr>
<td></td>
<td>b. Research plus adjustable 2-20 µL pipette (yellow).</td>
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<tr>
<td>3</td>
<td>Micro-centrifuge:</td>
<td>01 No.</td>
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<tr>
<td></td>
<td>a. Spinwin-Micro Centrifuge, Model-MC-01, Cat.-1020</td>
<td></td>
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<tr>
<td></td>
<td>b. Spinwin-Micro Centrifuge, Model-MC-00, Cat.-1000</td>
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Note: Details Specification is provided in the next page. The University pays only 5% GST as per Notice from Ministry of Finance, Govt. of India vide Notification No: 47/2017- Integrated Tax (Rate) dated: New Delhi, the 14th November, 2017.

The interested agencies or parties or suppliers or distributors or manufacturers of the items in the list, are requested to quote their rates to The Registrar (Officiating), West Bengal State University, Berunanpukuria, Malikapur, Barasat, 24 Pgs (N), Kolkata-700126, for supply of the above listed items along with the following documents: copies of a) Valid Trade License, b) GST Registration, c) PAN Card, d) Income Tax filed in last Financial Year, e) Clearance of Professional Tax. The rates should be all inclusive GST, Duties, Transportation Charges etc. and the warranty of items to be specified. Incomplete & conditional quotations received without proper supporting documents and after due date and time will be summarily rejected. The above quote should indicate firmly the type of tax to be charged.

The quotations along with necessary supporting documents in sealed cover super scribed “QUOTATION FOR PROCUREMENT OF INSTRUMENTS FOR RESEARCH PURPOSE FOR THE DEPT. OF BOTANY, WBSU” are to be submitted on or before 26/12/2018 up to 3 p.m. positively and will be opened on 27/12/2018 at 1 p.m. in the Dept. of Botany, WBSU. The University reserves the right for cancelling any or all quotations without showing any reasons thereof. The quoted rates should be valid for three months from the date or opening of the quotation and the items are to be delivered to the University campus at Barasat. However the University reserves right to terminate the notice inviting quotations for the above items at any point of time without assigning any reasons thereof.

Copy for information and necessary action, if any, to:
1) V.C.'s secretariat, WBSU
2) All members of the Purchase and Tender Committee.
3) Dr. Arun Kumar Dutta, DST-Inspire Faculty, Dept. of Botany, WBSU
4) The HOD, Dept. of Botany, WBSU
5) University Website.
6) University Notice Board.
7) Registrar’s Guard File, WBSU
SPECIFICATIONS FOR ITEM NO. 1

TRINOCULAR RESEARCH MICROSCOPE WITH CCD CAMERA ATTACHMENT AND IMAGE CAPTURE AND ANALYSIS SOFTWARE.

OPTICAL SYSTEM (INFINITY) : Infinity Correction System.

OBSERVATION HEAD : Sidentopf Ergo Binocular Head inclination at 30° with Third Port for Camera attachment Beam Spilter Bino 50% and Video/Camera 50% or 80:20

DIOPTER : Diopter adjustment ring on both ocular tube.

IPD : Interpupillary distance adjustment from 50mm to 75mm

ILLUMINATOR : 3W Super Bright White Light LED light attachment (LED life not less than 25000 hrs.)

INFINITY PLAN : 4x N.A. 0.1, W.D. 11.9 DRY.

OBJECTIVES (PER FOCAL & PER CENTRIC) : 10x N.A. 0.25, W.D. 12.1 DRY

40x N.A. 0.65, W.D. 0.36 DRY (SL)

100x N.A. 1.25, W.D. 0.18 OIL IMMERSION (SL)

EYEPIECES : Extra Wide Field 10x ( Paired ) FOV 22mm with Ocular Micrometer disc 0-100div.

NOSEPICE : Quadruple back ward (Reverse) angle with slot for insertion of Analyser for Polarisation study (Optional). Shown in leaflet.

MECHANICAL STAGE RECKLESS : Reckless Hard Coated Mechanical stage size 190mm x 140mm. having low positioned right hand co-axial controls.

SUB STAGE : Abbe type Condenser N.A. 1.25 with marked CONDENSER iris diaphragm and filter holder.

FILTERS : Interchangeable Green & Cobalt (Blue) & Yellow filters.

STANDARD : Dust Cover, Styrofoam molded pack, fuse, ACCESSORIES Power cord.

14 MP CMOS CAMERA ATTACHMENT FOR MICROSCOPE WITH IMAGE CAPTURE & MEASUREMENT AS WELL AS ANALYSIS SOFTWARE

Sensor : 14MP Image sensor (CMOS)
Scan : Progressive
Max. : 4096 × 3288
Sensor : 1/2.3”
Pixel : 1.44μm × 1.44μm
G Sensitivity : 0.724V/lux-sec(nm)
Dynamic Range : 65.3dB
A/D Converter : 12-bit Parallel, 8-bit R.G.B to PC
SN Ratio : 35.5dB
Spectral Range : 380-650nm (IR-cut filter)  
Frame Size & rate : 1.8fps @ 4696 x 3288, 10fps@1024 x 822  
Binning : 1X1, 3X3 & 5X5  
Exposure : Normal Exposure: 0.22~119.37ms,  
Exposure Set : 119.37ms~4mins  
ROI : ROI Auto & Manual Long  
Color Rendering Technique : Ultra Fine™ Color Engine  
White Balance : One Push ROI White Balance/ Manual Temp-Tint Adjustment  
Capture/Control : Twain  
Capture mode : Still Picture and Video  
Mode : Dual ( Colour / Monochrome )  
C-Mount Lens : 0.5x  
Computer Interface : USB 3 High Speed

**ONLINE (LIVE) MEASUREMENT AS WELL AS ANALYSIS SOFTWARE**

**ADVANCED FEATURES**


**SPECIAL NOTE:**

1. European manufacturer with after Sales Service backup to be given from Kolkata.  
2. The Camera and imaging software must be from same manufacturer for best compatibility.  
3. The supplier must own the copyright of any offered software supplied along with system.  
4. Copyright Certificate from Govt. of India along with the bid must be enclosed.
SPECIFICATIONS FOR ITEM NO. 2

EPPENDORF RESEARCH PLUS PIPETTE

- The ultralight Eppendorf Research plus was developed according to the strict criteria of the Eppendorf PhysioCare Concept.

- Eppendorf PerfectPiston®: Ultralight Piston made of biopolymer called Fotron it is highly resistant piston system to any chemicals and vapours.

- The positions and shapes of the control buttons/displays have been optimized for stress-free work procedures and intuitive operation.

- The spring-loaded tip cone provides with an optimal pipette fit with minimal insertion force.

- The Secondary adjustment option of Piston allows to perfectly adapt the pipette for specific liquids like high vapour pressure samples, highly viscous samples or other external conditions.

- With the new volume setting, one can switch from maximum to minimum volume in just a few turns.

- The 4-digit volume display with magnifying display makes quick and accurate volume settings easier than ever.
SPECIFICATIONS FOR ITEM NO. 3

For item 3a. SPINWIN-MICRO CENTRIFUGE, MODEL-MC-01, CAT.-1020

- Quiet and Reliable
- Small foot print
- Built in power supply
- Digital display of time & RPM
- Standard 6 places Rotor for 1.5 ml tubes
- Spare 12 places Rotor for 0.5 ml. tubes

For item 3b. SPINWIN-MICRO CENTRIFUGE, MODEL-MC-00, CAT.-1000

- Quiet and Reliable
- Small foot print
- Independent ON/OFF switch
- Fixed speed of 6000 RPM/2000 g
- 6 place Rotor for 1.5 ml tubes
- 2 place Rotor for 8 x 0.2 ml tube strips