

**RAJIV GANDHI UNIVERSITY**  
**RONO HILLS, DOIMUKH**

No. RGU/PC/DST/FIST-344/2016

Dated. 20<sup>th</sup> January, 2017.

**Notice Inviting Quotation**

Sealed quotations are hereby invited for supply of the following items required for major research Project on FIST Programme sponsored by DST under Prof.Sumpam Tangjang, Head, Department of Botany, Rajiv Gandhi University as per details shown below with the following terms and conditions:

Sl.No	Items & Technical Specifications	Qty
1	<p><b>Transmitted Bright Field Binocular Students' Microscope:</b> Ergonomic design, Fixed Koehler stand, Standard mechanical stage with X-Y controls drive and specimen holder, Coarse and Fine Focussing with safety stopper; 4-position nosepiece, tilted backwards, ~30°/20 inclined ergonomic binocular tube, Inter pupillary distance 50–75 mm, eyepiece tubes swivel either way for comfortable viewing, eyepieces 10x/~20mm bright focus, 1x with pointer; Objectives : Anti-Fungus Plan achromatic 4x/0.10, 10x/0.25, 40x/0.65 (spring loaded) and 100x/1.25 oil (spring loaded). The condenser and the light relay system fitted with high performances, ABBE Condenser 0.9/1.25 with aspherical lens and iris diaphragm; Halogen illumination with 6V ~30W halogen lamp/LED warm light ~3200K or more, intensity level display, external power unit 100-240VAC/50-60Hz/30VA with adapters, Country-specific power cable, dust cover, colour filter set (blue, green, yellow) for contrast generation. Spares : 6V~30W halogen lamp/LED warm light (1 pc.), 5 ml immersion oil (2 pcs.), Eye piece 10x/~20mm bright focus with cross hair (1 pc.).</p>	3 Nos.
2	<p><b>Transmitted Bright Field Trinocular Students' Microscope with Digital Imaging System :</b> Ergonomic design, Fixed Koehler stand, 4-position nosepiece, Z-drive with fine drive knob left and fine drive disk right, flat with scale; Coarse and Fine Focussing with safety stopper; Mechanical stage ~75x30 right hand with hard coat anodized surface, wide stage plate ~210 x 145 mm, Covered X-guide at bottom, Right drive with friction setting, specimen holder for one hand operation, spring lever left; Inclined ergonomic trinocular phototube ~30°/23 (0:100/100; 0 preferred otherwise 50:50). Camera port with interface. Eyepiece tubes swivel either way for comfortable viewing, Eyepiece PL 10x/~22 bright focus, Eyepiece eyecup. Objectives: Anti-Fungus Plan achromatic 5x/0.12, 10x/0.25, 40x/0.65 (spring loaded) and 100x/1.25 oil (spring loaded), Z-drive with fine drive left and right. The condenser and the light relay system fitted with high performances, ABBE Condenser 0.9/1.25 H with aspherical lens and iris diaphragm; Transmitted-light illumination with halogen reflector lamp 12V ~30W/LED ~3200K or more, intensity level display on the stand, Contrast enhancing blue filter; Integrated DC power unit, External power unit 100-240VAC/50-60Hz/30VA with adapters, dust cover. Country-specific power cable. Dust Cover.</p> <p><b>Scientific Digital Microscopy Colour camera</b> Appropriate C-mount Digital camera for high definition pictures of ~5.0 megapixels with driver software (basic resolution ~2560 H x 1920 V; pixel size: ~2.2 μm x 2.2 μm, Camera sensor minimum 1/2.5", digitization: ~3 x 8 bit/pixel, Integration time: 10 μs up to 2 s). Camera able to capture video clip in a standard format, interface USB 2.0/3.0, SD/SDHC card slot, HDMI; Supported operating systems Windows 7 and above. Ambient conditions 5° - 45° Celsius, &gt;80% RH <b>Power supply:</b> USB 2.0, 5V/1A; 100...240VAC/50...60Hz with country-specific adapters. All the automated components should be controlled by software through a computer. Image software compatible and complete for export and import of images and video clip in various formats and to convert images into a single file format combining imaging</p>	1 No.

	<p>data with all relevant metadata for processing and analysis of images using open source software like micromanager/ Fiji/Image J also. Software must be capable of data acquisition and offline analysis. Measurements such as length, area, perimeter, diameter, vector distance, width, height; and <math>\mu</math> bar scaling, Text annotation, Postprocessing and optimization of images should be possible with the image software. Microscope, camera and software should preferably be from single manufacturer. Preferably, the camera should be controlled for full functions through open source software like micromanager/ Fiji/Image J.</p> <p><b>Desktop system</b> (HP model with Intel core i5 processor, 8 GB DDR4, 1TB HDD, 2-4 GB graphics card, Windows Operating System 7 or above, 18.5" LED Monitor screen. Spares: halogen reflector lamp 12V ~30W/ LED warm light (1 pc.), 5 ml immersion oil (2 pcs.).</p>	
3	<p><b>Binocular Stereo Zoom Microscope:</b> Producing high-resolution high colour fidelity images of minimum 600 line pairs per millimeter with 0.2 numerical aperture. Inclined ergonomic binocular tube, ~30-35° viewing angle, eyepoint height adjuster, ~50 - 75 mm adjustable interocular distance, Objective lens 1x plan apochromatic, free working distance ~90 mm, manually operable zoom &gt;7:1, switchable click stopping at incremental minimum 8 positions, Wide eyepiece, PL 10x/~22 Br. foc. with diopter adjustment, Eyepiece eyecup, dust protection cap. Wide stand plate approx. 180x240 mm, Universal epillumination/transmitted light LED illumination, cold-light source up to 75 lm light flux, ca. 5,600 K color temperature. 2 stage clips. Dust cover.</p> <p><b>Optional Items:</b></p> <ol style="list-style-type: none"> <li>1. Tilting Trinocular Head 5-45° viewing angle, 100:0/0:100.</li> <li>2. Digital Imaging System, with adaptor and essential accessories for photography. HD Camera 5 megapixels with 1/2.5 inch Sensor, Stand-alone/PC control ability.</li> <li>3. Software for image capturing and linear measurement.</li> <li>4. Objective lens 1.5x and 2x plan achromatic/apochromatic for magnification up to ~100x.</li> <li>5. Reticles for insert in eyepieces 10x foc., Crossline micrometer</li> <li>6. Transilluminator with 2-branch goose-neck light with high intensity cold light source, self-supporting, Goose-neck light guide with focusing attachment. Transillumination accessories.</li> <li>7. Desktop system (HP model with Intel core i5 processor, 8 GB DDR4, 1TB HDD, 2-4 GB graphics card, Windows Operating System 7 or above, 18.5" LED Monitor screen..</li> </ol> <p><b>Note:</b> Microscope camera &amp; software should be quoted by the same manufacturer for better integration in the system.</p>	1 No.

**Terms and conditions:**

1. **Bid security/Earnest money of Rs.20,000/- (Rupees twenty thousand)** only should be submitted along with the quotations favoring to Registrar, Rajiv Gandhi University, Payable at SBI Itanagar/Naharlagun or Vijaya Bank, Itanagar/naharlagun.
2. The rate quoted shall be inclusive of all charges/Taxes (i.e. packaging, forwarding, freight, installation and all other incidental charges) F.O.R at Rajiv Gandhi University, Itanagar. The quoted rate should be valid for the current financial year.
3. The last date of receipt of quotation is **on 21/02/2017 at 3.pm.**
4. Sealed quotation should be submitted to "The Registrar, Rajiv Gandhi University, Rono-Hills, Doimukh, Itanagar-791112, Arunachal Pradesh" before due date and time.
5. Envelope should bear the inscription "**No. RGU/PC/DST/FIST-344/2016 Quotation for Equipments under DST-FIST.**"
6. The bidder should quote the rates of instruments with model number, its detailed specifications etc. quotations not adhering to the specifications will be out rightly rejected.

7. The bidder must enclose the authorized dealership certificate relevant to items the bidder is quoting for. The authenticity of certificates shall be verified through corporate/regional offices or through proper officiating channels.
8. Rajiv Gandhi University reserves the right to accept or reject any bid or cancel the tender proceedings without assigning any reason whatsoever.
9. VAT/CST/IT
  - (a) Up-to-sales Tax clearance. CST/VAT registration Certificate indicating also the TIN number of the firm must be clearly mentioned in the quotation. Quotationer's are requested to enclose a self attested copy of their valid certificate of PAN card, TIN No., and trading license with their tender. The Vendor may also attach documents of IT returns to the concerned Income Tax authority/submit the exemption certificate. TDS (VAT) and other Taxes as applicable shall be deducted from the bills as per the instructions of the Government.
  - (b) Income tax @ 2 %. and
  - (c) Arunachal Pradesh Entry tax @ 4%.
10. Installation and demonstration free of cost by the service engineer of the company.
11. Warranty:
  - a. 5 Years onsite full comprehensive free warranty (Microscope should be upgradable for phase contrast, dark field, CCTV system and digital imaging system.
  - b. Microscope, camera, data acquisition and analysis software should carry 5 years and the Desktop system should carry 3 years onsite full comprehensive free warranty.
12. Quotations received without Bid Security (EMD) amount by way of Demand Draft or Pay Order/Banker's Cheque in the name of Registrar, Rajiv Gandhi University, Itanagar/ Naharlagun will not be considered at all.
13. No payment will be made for unsatisfactory supply.
14. The Bills shall be preferred in the name of Registrar, Rajiv Gandhi University, Doimukh.
15. Incomplete proposals/Quotations received after due date shall not be entertained.
16. The competent authority of this University reserves the right to accept or reject any or all quotations without assigning any reason.
17. Payments terms: 100% payment will be made within 30 days on the date of successful supply or installation as per specification. No advance payment will be made.

**S/d**  
**Registrar**