

**AIIMS RISHIKESH**  
**INDENT FOR PURCHASE OF STORES**  
**(FORM P-2)**

- 1 Please fill a separate form for each item  
 2. Please fill completely in triplicate. Incomplete forms and those with illegible writing may not be accepted.

Name of items with full specifications & required accessories	Quantity (in figures and words)	Cost per unit (approx.) in foreign currency and Rupees	Total cost (approx.)
<p><b><u>Specification for Trinocular Phase Contrast, Polarising, Research Microscope with Digital Imaging System</u></b></p> <p><b>Optical System:</b> Universal Infinity corrected optical system.</p> <p><b>Illumination:</b> The microscope should have an ergonomic stand with high intensity - at least 14 watt LED illumination system with a life of 50,000 hours or more. The intensity/brightness should be equivalent to a 12 volt 100 watt halogen bulb.</p> <p><b>Focus:</b> Coaxial coarse &amp; fine focusing with at least 25 mm stage stroke with coarse adjustment limit stopper. Fine focusing knob with minimum adjustment gradations of 1 <math>\mu</math>m or better. Torque adjustment for coarse adjustment knobs</p> <p><b>Upgradability:</b> The quoted microscope should be onsite upgradable to multi-viewing attachment with at least 25 heads; full stepwise motorization like motorised 7-position or higher DIC nosepiece, motorised 7-position or higher universal condenser with motorized polarizer in/out movement, motorised 6-position or higher fluorescence turret, motorised stage and DIC (Differential Interference Contrast).</p> <p><b>Observation Tube:</b> Widefield Trinocular tube having F.N 22 or higher with paired widefield eyepieces.</p>	1 (One)	Rs.13,00,000 (Thirteen lakh rupees)	Rs.13,00,000 (Thirteen lakh rupees)

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 सहायक आचार्य / Assistant Professor

डॉ० वेंकटेश एस पाई (एम डी डी एम)  
 Dr. Venkatesh S Pai (MD, DM)  
 अतिरिक्त आचार्य / Additional Professor



Three way light path distribution for simultaneous viewing and imaging of the specimens.

**Eyepieces:** Should be of at least 10X magnification, with diopter adjustment facility in both eyepieces with F.N. 22 or higher.

**Nosepiece:** Sextuple (6-positions) revolving nosepiece with a slot for analyzer or DIC slider.

**Analyzer & Polarizer:** Analyzer & Polarizer should be a Standard part of the System

**Objectives:** The following objectives should be quoted: -

1. Plan Achromat 4X
2. Plan Achromat 10X Phase Contrast
3. Plan Achromat 20X Phase Contrast
4. Plan Achromat 40X Phase Contrast
5. Plan Achromat 100X Oil Immersion

**Stage:** Mechanical stage with ceramic coating, with double slide holding capacity. Travel range of at least 76 x 52 mm.

**Condenser:** Universal Turret Condenser for Bright Field, Phase Contrast & Dark Field Applications.

**Analyzer & Polarizer:** One set of analyzer & polarizer should be a standard part of the quote

**Digital Camera:** The system should be supplied with dedicated scientific colour camera with Resolution of minimum 6 MP or better. Sensor should be atleast 1/1.8-inch colour CMOS, Pixel size approx.  $2.4 \mu\text{m} \times 2.4 \mu\text{m}$  or better, exposure time of  $13 \mu\text{s} - 15 \mu\text{s}$ , USB 3.1 Type-C. Live image display (frame rate) 45 fps (full resolution), 59 fps (binning  $2 \times 2$ -high speed), 60 fps (full HD). High resolution at 30 frames per second (fps).

**Software:** Should act as an interface between the digital camera and the computer system / Laptop. It should have the following features. Fully compatible for Brightfield, Phase Contrast imaging and analysis.

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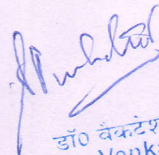
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एच.डी. डी.एम. / MD, DM  
सहायक आचार्य / Assistant Professor



<p>Document groups for side by side image comparison. Measurements, Documentation and collaboration. User experience customization, Movie playback, Tile view, Snap/ movie acquisition, Interactive measurements.</p> <p><b>PC System:</b> Branded PC System , I5, Windows 10 Pro, 4GB RAM, 1TB HDD, 64 bit, Keyboard, Mouse, 24 Inch Monitor</p> <p><b>Other Mandatory Conditions:</b></p> <ol style="list-style-type: none"> <li>1. The bidder must mandatorily mention the web links of the manufacturer's website for the quoted microscope &amp; Camera to confirm compliance to the specifications. Microscope , Camera &amp; Software should mandatorily from the same manufacturer.</li> <li>2. The quoted system should be onsite upgradable to full motorization, DIC, 25 header multi-viewing system, FDA approved cytogenetics workstation etc.</li> <li>3. The quoted microscope System should be CE/US-FDA certified</li> </ol>			
<b>Total Amount</b>			Rs.13,00,000 (Thirteen lakh rupees only)

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**3. For equipment, please provide the following information**

Detailed description of the actual use of the equipment: **For Immunology & Rheumatology**

Is the equipment to be used for patient care or research: **Patient care**

If both, state 70% of time to be used for patient care: 30% of time to be used for research

Is this/ similar equipment already available in the department? **N/A**

When purchased? Cost at that time: Present functional status:

Tests/procedures done on this equipment in last year: **N/A**

Revenue generated by this equipment in last year: **N/A**

If yes, what is the justification for this purchase? **N/A**

Is this/similar equipment available in any other department in the Institute? **N/A**

If yes, what is the justification for this purchase:

**4. For Consumables, please provide following information:**

Description of stocks available: Nil

When was it last purchased? In what quantity? Cost:

Source:

Test/ procedures done in this period:

Revenue generated in this period:

Average annual consumption

Shelf life

Period for which this purchase will last Number of tests likely to be done with this quantity:

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## P-3 FORM

(to be attached with P-2 form for Proprietary items)

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## PROPRIETARY ARTICLE CERTIFICATE

It is certified that the items (Light microscope with Polarizer for synovial fluid crystal) required in the P-2 form should be purchased from M/s. DSS Imagetech Pvt. Ltd. To the best of my knowledge M/s. DSS Imagetech Pvt. Ltd. are the sole manufacturer/agents of the sole manufacturers M/s. Evident Corporation - Japan

Similar items manufactured by other firm(s) shall not be suitable for our purpose for the following reasons:-

(Sign of Indenter)

Dated

Designation

Department

Recommendation:

Signature of Head of Department/Section

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N.B.: The indenter before recording the above certificate should satisfy himself that the article is genuinely of proprietary nature manufactured under patent laws