

# ASSAM SCIENCE TECHNOLOGY AND ENVIRONMENT COUNCIL

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## NOTICE INVITING TENDER

Sealed Tenders with I.P.O. of Rs. 20/- only (non refundable) in favour of the '*Director, ASTEC, Guwahati*' are invited from Reputed Company/ Authorized dealer for Supply & installation of a Digital Microscope with EPI Fluorescent Attachment, 5 Mega Pixel Camera & PC System. The tender should reach to the undersigned by 1.00 PM on or before 21.06.2012 and would be opened at 1.30 PM on the same day. In case, the day happens to be a holiday the same would be opened on the next working day at the same time. Interested Company/Authorized Dealers may offer rates on items as per specifications given below.

**Name of the work:** Supply & installation of a Digital Microscope with EPI Fluorescent Attachment, 5 Mega Pixel Camera & PC System or higher configuration.

**Place of installation:** ASTEC, Guwahati – 5.

**Estimated Cost:** Rs. 4.00 Lakh(Approx.)

### Item-wise specification

Item	Specifications
<b>1. Microscope</b>	<p><b>Stand:</b> Single mold sturdy stand with anti rust materials. Extended base with hand rests for enhanced stability and comfort.</p> <p><b>Viewing Bodies:</b> Siedentopf Binocular tube, 30° inclined, 360° rotatable, Interpupillary distance 48-75mm with fixed 5 Mega Pixel Camera module iVU5100.</p> <p><b>Eyepieces:</b> Two Nos. Wide Field focusable paired eyepiece WF 10x/20mm &amp; 15x/20mm, with foldable eye guard, lockable, anti fungus coating.</p> <p><b>Nosepiece:</b> Reverse angle quadruple nosepiece -ball bearing type with click stops and rubber grip.</p> <p><b>Objectives:</b> RP series DIN Infinity Corrected Plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), anti- fungus coating.</p> <p><b>Mechanical Stage:</b> Rackless X-axis, double plate mechanical stage plate size 200 x 160mm, X/Y travel range 78 x 54mm. Low drive movement controls. Hard coated surface for scratch resistance.</p> <p><b>Condenser:</b> Sub-stage Abbe condenser NA 1.2 with aspheric lens. Iris diaphragm with snap-in blue filter. Rack and pinion movements on stainless steel guides.</p> <p><b>Focusing:</b> Co-axial coarse and fine focusing on ball drive system for smooth operation.</p> <p><b>Illumination:</b> Halogen 6V-20W illumination with variable illumination control. Up to 2,000 hours of Halogen lamp life.</p> <p><b>Electrical:</b> Universal input 100V-240V AC</p>

<p><b>2. Camera Specifications:</b></p>	<p><u>The camera:</u> iVu5100 Digital Camera Module 5.0 Megapixel  <u>Sensor:</u> 1/2.5" 5.0 Megapixel  <u>Color:</u> CMOS  <u>Active area:</u> 5.70mm x 4.28mm  <u>Sensor resolution:</u> 2592 x 1944 pixels  <u>Pixel Size:</u> 2.2µm x 2.2µm  <u>Digitalization:</u> 12 Bit RGB  <u>Pixel clock:</u> 48 MHz  <u>Dynamic range:</u> 68 dB (measured at 10 ms exposure)  <u>Max exposure:</u> 35  <u>Min exposure:</u> 15  <u>Live Image:</u> 30 fps (1280 x 720) for Digital &amp; 30 fps (720P) for Analog  <u>Scan Mode:</u> Progressive  <u>Image resolution:</u>  <u>Standard:</u> 2592 x 1944  1280 x 720  640 x 480  <u>Interface:</u> USB 2.0 and Composite Analog out  <u>Optical connection:</u> C- Mount  <u>Voltage supply:</u> 5V/2Amp through USB 2.0 or External Supply  <u>Power consumption:</u> approx. 1.8W  <u>Ambient conditions:</u> Temperature: -30°C ... +70°C, Humidity: up to 80%, not Condensing  <u>Indicator:</u> Green LED indicating power on and ready for capture  <u>Integrated slot:</u> SD card slot for SD and SDHC Cards  <u>Recording:</u> Button for image capture and video capture  <u>Refresh:</u> Reset toggle refreshes white balance and restores camera to factory preset  <u>Analog Interface:</u> NTSC/PAL toggle switch on board  <u>External Power:</u> Optional power adapter.</p>
<p><b>3. EPI Fluorescent Attachment:</b></p>	<p><u>Epi-illumination:</u> 100 Watt High pressure Mercury Lamp.  <u>B-Excitation Block</u>  Excitation: 450-480nm  Barrier: 515nm  Dichroic: 500nm  <u>G-Excitation Block</u>  Excitation: 510-550nm  Barrier:590nm  Dichroic: 570nm  UV protected orange colored Plastic screen to safeguard the Operator from UV light.</p>
<p><b>4. PC System</b></p>	<p><u>System</u> requirements: Microsoft XP/Vista/7 Os, 3 Ghz CPU, 2GB RAM (if 1GB, recommended 64MB graphics card), USB 2.0  PixelPro™ Image Analysis Software for capturing still images and videos. Software provides an easy to navigate user interface designed for routine analysis. Control features include Auto White Balance and Auto Exposure adjustments, Picture quality adjustments, Annotations, Measurement Functions &amp; Calibration, Region of Interest selection, Archival of images in an easy to use gallery, and a variety of resolutions to view images.  <u>Software</u> should be compatible with Windows XP/Vista/7 Operating Systems</p>

Tender paper as well as details may be down loaded from the Council's website [www.astec.gov.in](http://www.astec.gov.in)

### **Terms & Conditions:**

1. Tender from Manufacturing Company/ Authorized Dealers will be considered.
2. Tender is to be submitted in prescribed Tender Format only.
3. Supply & installation work shall be a single package. No individual or part item will be considered. In other words, it is a Turnkey basis work.
4. Authenticated copies of PAN & TIN/ GRN along with Dealership Certificate are to be submitted, otherwise Tender will be rejected.
5. Bidder must have minimum 5 years experience of Supply & installation of Digital Microscope in NE Region of India.
6. Bidder must have technical expertise and service facility in NE region.
7. Free maintenance and warranty is to be given for 3 years from the date of supply & installation.
8. A demonstration cum training is to be given by the bidder.
9. Tender should be submitted separately in two-bid system:-
  - (i) **Technical bid: following documents are to be inserted-**
    - a. IPO for Rs. 20/- in favour of "Director, ASTE Council".
    - b. Relevant Brochure/Photographs with details of items to be supplied.
    - c. User list of similar type of jobs already done.
    - d. Authenticated photocopy of PAN, TIN/GRN & Dealership Certificate.
    - e. Declaration Certificate of free service, maintenance and warranty for 3 years.
  - (ii) **Financial bid:** Financial bid in prescribed Tender Format will be considered and opened of those bidders which would qualify in the Technical bid satisfactorily. Rate is to be quoted inclusive of all applicable taxes. The applicable tax will be deducted at source against which necessary Tax Deduction Certificate will be issued as and when required.
10. Both the sealed "Technical Bid" and "Financial Bid" are to be submitted in a sealed envelope superscripted with "Tender for Digital Microscope".
11. The supply and installation work must be completed within 30 days from the date of issue of the Supply Order.
12. 90% payment will be made after soon after satisfactory supply & installation report from the concerned Officer/ Scientist and remaining 10% payment will be made after 3 months.
13. The Director, ASTEC reserves the right to accept or reject any offer which would be advantageous to the Council.
14. Any dispute what so ever, will be confined under the jurisdiction of Gauhati High Court, Guwahati.
15. Under no circumstances, Director, ASTE Council is liable to issue Road Permit. Necessary Road Permit is to be obtained by the Bidder only.

S/d  
**(H.C. Dutta, ACS)**  
Director, ASTEC

- Copy to:
1. DIPR, Govt. of Assam.
  2. Notice Board, ASTEC
  3. Dy. FAO, ASTEC
  4. Copy for website
  5. Concern file

S/d  
**(H.C. Dutta, ACS)**  
Director, ASTEC