

TENDER FORMAT

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

Last date & time of Submission of Tender: Till 1.00 p.m. on 21.06.2012

Item-wise specification of work with rate:

Item	Specifications	Rate (Rs.)
1. Microscope	<p><u>Stand:</u> Single mold sturdy stand with anti rust materials. Extended base with hand rests for enhanced stability and comfort.</p> <p><u>Viewing Bodies:</u> Siedentopf Binocular tube, 30° inclined, 360° rotatable, Interpupillary distance 48-75mm with fixed 5 Mega Pixel Camera module iVU5100.</p> <p><u>Eyepieces:</u> Two Nos. Wide Field focusable paired eyepiece WF 10x/20mm & 15x/20mm, with foldable eye guard, lockable, anti fungus coating.</p> <p><u>Nosepiece:</u> Reverse angle quadruple nosepiece -ball bearing type with click stops and rubber grip.</p> <p><u>Objectives:</u> RP series DIN Infinity Corrected Plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), anti- fungus coating.</p> <p><u>Mechanical Stage:</u> 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><u>Condenser:</u> 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><u>Focusing:</u> Co-axial coarse and fine focusing on ball drive system for smooth operation.</p> <p><u>Illumination:</u> Halogen 6V-20W illumination with variable illumination control. Up to 2,000 hours of Halogen lamp life.</p> <p><u>Electrical:</u> Universal input 100V-240V AC</p>	
2. Camera Specifications:	<p>The camera: iVu5100 Digital Camera Module 5.0 Megapixel</p> <p><u>Sensor:</u> 1/2.5" 5.0 Megapixel</p> <p><u>Color:</u> CMOS</p> <p><u>Active area:</u> 5.70mm x 4.28mm</p> <p><u>Sensor resolution:</u> 2592 x 1944 pixels</p> <p><u>Pixel Size:</u> 2.2µm x 2.2µm</p> <p><u>Digitalization:</u> 12 Bit RGB</p> <p><u>Pixel clock:</u> 48 MHz</p> <p><u>Dynamic range:</u> 68 dB (measured at 10 ms exposure)</p> <p><u>Max exposure:</u> 35</p> <p><u>Min exposure:</u> 15</p> <p><u>Live Image:</u> 30 fps (1280 x 720) for Digital & 30 fps (720P) for Analog</p> <p><u>Scan Mode:</u> Progressive</p> <p><u>Image resolution:</u></p> <p><u>Standard:</u> 2592 x 1944</p>	

	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.	
3. EPI Fluorescent Attachment:	<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.	
4. PC System	<u>System requirements:</u> 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 & Calibration, Region of Interest selection, Archival of images in an easy to use gallery, and a variety of resolutions to view images. Software should be compatible with Windows XP/Vista/7 Operating Systems	
	Total	
	Tax/ VAT	
	Grand Total (Rupees)	

All terms and Conditions agreed.

Date

Signature with seal of Bidder

Full name of signatory.....