

**TENDER NOTICE**  
**INSTITUTE OF CYTOLOGY AND PREVENTIVE**  
**ONCOLOGY (ICMR)**  
**Plot No. I-7, Sector-39, Noida-201301**  
**(Tender No.ICPO/Store/Equip/2009-10)**

Institute of Cytology and Preventive Oncology (ICMR), Noida, invites sealed tender for the purchase/import of following items of equipments:

<b>S.No.</b>	<b>Equipment</b>	<b>Qty.</b>
1.	Liquid Based cytology Processor	One
2.	Automatic DNA extractor	One
3.	Automatic Cytogenic Workstation	One
4.	Auto Pap Stainer	One
5.	Research Microscope with digital camera	One
6.	Microscope with five teaching heads	One
7.	Microtome	One
8.	Tissue Embedding System	One
9.	-70 C Deep Freezer	One
10.	Gel Dryer	One
11.	Vortex Mixer	Six
12.	Speed Vac (Vaccum)	One
13.	Leep (Electrosurgical generator unit)	One
14.	Optical Colposcope with digital camera	One
15.	Digital SLR Camera with accessories	One
16.	Colour Photocopier	One
17.	Cold Microfuge	Three
18.	PCR Workstation	Two
19.	Vertical Electrophoresis System	Four sets
20.	Multi Channel Pipette	Three Sets
21.	Chemiluminescence Imager with Software	One
22.	Gel Documentation System	Two
23.	Hybridization Oven	Three
24.	-20c Deep Freezer	Five
25.	Multi Block PCR Machine	Five
26.	Overhead Shaker	eight sets
27.	Laminar Flow Hood (Biosafety cabinet)	Two
28.	Digital Autoclave Portable	Four

The tender documents containing terms and conditions and specifications of items can be obtained from the Stores Section (Room No.210), Institute of Cytology and Preventive Oncology(ICMR), Noida, on payment of Rs.500/- (non-refundable) and the tender form is also available on website: [www.icpo.org.in](http://www.icpo.org.in). Organisation using downloaded tender forms must submit a separate tender fee of Rs.500/- by DD in favour of "Director-in-Charge, ICPO, Delhi", along with the tender. The tender form will be available from 22.02.2010 to 15.03.2010. The last date for submission of Tender is 17.03.2010 by 4 p.m. and technical bid of tenders will be opened on 19.03.2010 at 10:30 AM in the conference room of the Institute in the presence of firm's representatives.

The Director-in-Charge, Institute of Cytology and Preventive Oncology (ICMR), Noida, reserves the right to reject any or all the tenders without assigning any reason or to accept them in part or full.

Director-in-Charge  
ICPO, Noida

Institute of Cytology & Preventive  
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<b>Technical specifications for <u>Liquid Base Cytology processor</u></b>	<b>Feature are available Yes/No</b>
<ul style="list-style-type: none"> <li>- Should do liquid based PAP test by automated preparation of Liquid based cytology slide.</li> <li>- System should employ a fluid transport medium to preserve cells, eliminate debris and distribute a representative portion of cells on slide in a uniform even layer.</li> <li>- Slide should be clear, easy to read and free of obscuring, mucus and non diagnostic debris.</li> <li>- System should process gynecological &amp; non-gynecological cytological sample.</li> <li>- System should do approximately 25 sample per hour.</li> <li>- The final slide should have a uniform thin layer of cells located in a fixed area on the slide for efficient analysis and shorter screening time / slide.</li> <li>- The system prepares enough cell samples so that the residual sample left after pap slide preparation can be used for ancillary tests.</li> <li>- The system should have proven statistically significant decrease in unsatisfactory cases.</li> <li>- The system should have proven statistically significant increase in HSIL + lesion detection over convention Pap smears.</li> <li>- The system should have proven statistically significant decrease over conventional Pap smears in ASC-US diagnosis</li> </ul>	

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<b>Technical specifications for Automatic DNA extractor</b>	<b>Feature are available Yes/No</b>
<ol style="list-style-type: none"> <li>1. System should be fully automated, compact, bench top, preprogrammed, truly walk away instrument for isolation of Nucleic acids and His tagged proteins.</li> <li>2. It should be equipped with a magnetic-particle-handling device, which purifies biomolecules using paramagnetic particles, allowing optimal capture, washing and elution of the target material.</li> <li>3. Instrument should be preprogrammed and should use pre-dispensed reagent cartridges for isolation of DNA/RNA and His Tagged Proteins.</li> <li>4. Reagent cartridges must facilitate for rapid disruption of sample with plunger action and replace the time and labor – intensive use of proteases or manual tissue grinding.</li> <li>5. Single use format of cartridges and optimized automated method prevent cross contamination during sample processing.</li> <li>6. Low processing time 20-50 minutes depending upon the sample.</li> <li>7. Sample volume 10- 400 µl, or upto 50 mg (depending on sample type).</li> <li>8. Number of samples 1-15 or more per run.</li> <li>9. System should have option for interchangeable Low Elution Volume module.</li> <li>10. The system should have heated elution step.</li> <li>11. Consumable supply of 4000 samples (for blood, exfoliated cells and tissue) along with equipment.</li> <li>12. Appropriate UPS of reputed firm that can run the machine uninterrupted on power failure.</li> </ol>	

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Technical specifications for Automatic Cytogenetic Workstation	Feature are available Yes/No
<p>Fully Motorized Upright Research Microscope for Brightfield, Fluorescence and Digital Image Analysis System with Infinity Optical system with PARFOCAL Distance of 60mm or higher using a Upright Research Microscope with Multi port Design, in which the following motorized controls are required:</p> <ol style="list-style-type: none"> <li>a. Motorized Z-axis control with readout of 0.05 microns or better,</li> <li>b. Motorized Sextuple Nosepiece,</li> <li>c. Motorized Condenser, with slot for phase/DIC</li> <li>d. Rectangular Motorized XY Stage</li> </ol> <p><u>Illumination system:-</u></p> <p>Should have a 12V 100W halogen illumination system with "Fly-eye" lens built into the transmitted light illumination to ensure uniform illumination perfect for digital imaging wide range of observations like Phase Contrast, Epi-fluorescence, and High –resolution DIC, bright Field, simultaneous DIC and Fluorescence observation.</p> <p>Fluorescence Microscopy Attachment: -</p> <p>120/130W Mercury illumination with <math>\geq 2000</math> hrs lamp life, Band pass fluorescent filters for 1) FITC/GFP, 2) TRITC/Rhoda mine &amp; 3) DAPI/Hoechst, applications to avoid cross talk.</p> <p>Motorized Fluorescence attachment with 6-cube filter turret fluorescent attachment along with noise terminator mechanism which can load up to 6 Fluorescence Filters for observing weakly fluorescing specimens especially in dynamic live cell imaging experiment.</p> <p>Objectives:</p> <p style="text-align: center;">Page 1 of 3</p>	

Plan Achro 4x (N.A.0.10, W.D.30.0mm or higher),  
Plan Achro 10X (NA 0.25, W.D.10.5mm or higher),  
Plan Achro 20X (N.A.0.40, W.D.1.2mm or higher),  
Plan Fluor Objectives for BF/Fluorescence/DIC application 40X (NA 0.75, W.D.0.72mm or higher) and  
Plan Fluor 100X oil immersed (NA 1.3, W.D.0.2mm or higher).

**Micro photographic Equipment Attachment:-**

Digital Monochrome cooled camera capable of handling very low light fluorescence, dark field or DIC images with 2/3" high density CCD chip, approx. 1.45 Mega pixel Effective resolution, 32 f/p/s/ with full screen size, cooling 10°C below ambient, 12-bit digitization, exposure time 1/1,000 to 600 sec., USB Port for attaching camera onto desktop/laptop through single wire and Imaging Software for Image acquisition.

**SPECIFICATIONS FOR CYTOGENETICS SOFTWARE**

**Archive Program**

Cytogenetic Software should provide feature to archive and to create cases according to the lab requirements and with feature to insert many fields in archive without any space limitations.

Archive should have feature to provide layout of the report and of the prints with images, can be build as desired from the technicians with the program, Should have feature to search cases not only in hard disk but also on all cartridge previously archived.

The images acquired to be directly connected to the patient data and every image to be double with a safety copy which can be analyzed during the processing & to be available for every application like bright field, Fish, CGH, and M-FISH

**High Resolution Acquiring program:-**

The program enables the acquisition from Digital cameras. The images should be live in full screen visualization (1300x 1030). The program should have feature to control all set up of camera connected and feature to load metaphases images from other systems in TIFF, JPEG, and BMP which can be later processed and also karyotyped.

**Manual Karyotype:-**

The program should have feature to enhance and to cut metaphases,

should have manual position of the pairs on karyotype layout and assists the operator to transfer chromosomes from the metaphases to the karyotype.

The program should have feature to modify layout of karyotype in order to build karyotype of other species like Animals or plants. Manual karyotype to provide feature to

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count or execute an eyeball analysis of metaphase with all features of prints to be available.

**Automatic Karyotype:-**

The program should have automatic mode the karyotype from images of metaphases

Image processing: Automatic splitting of chromosomes, Division of chromosomes by axes.

Object fusion by click of mouse, Enhance of single objects or on all images

Contrast on all images or on single chromosomes, Automatic count of chromosomes

Pattern recognition for GTG-QFQ-C and DAPI bands, Image annotation, Karyotype adjustment: Shift of single chromosome, Rotation or inversion of chromosome,

Zooming of chromosome until 4 times, Cleaning of borders from split with rubber

Automatic bands count, Ideogram Package: Comparison ideogram

Comparison with anomalous, Different band resolution (350-450-550)

Different type of bands GTG QFQ

**Multicell Analysis:-** Should have feature of comparison of all pairs from all karyotypes made and opportunity to compare double pairs in once shot Prints: Opportunity to mix in the prints GTG-QFQ-FISH-CGH\_MFISH images\_Opportunity to create infinite layouts of prints

**FISH Analysis:-**

Software to feature threshold ROI of images, Different planes of focus of same fluorochromes can be better acquired, Combination of chromosomes in FISH with brightfield or other techniques acquired on the same or different case and Building of Karyotype on Fish images

**Data Collection And Processing Unit:**

Branded Pentium IV Core to Duo, With, 2 GB Ram, DVD Writer, 80 GB Or Higher HDD, 17" TFT Color Monitor, Multimedia Kit Along With UPS And Color Laser Printer.

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<b>Technical specifications for Research Microscope with Digital Camera</b>	<b>Feature are available Yes/No</b>
<p><b>CONTRASTMICROSCOPE WITH DIGITAL COLOR CAMERA AND IMAGE ANALYSIS SOFTWARE</b></p> <p>Main Body (220-240) with quadruple nosepiece, mechanical stage right handle with refocusing mechanism illuminator base supplied with field lens unit with diaphragm, halogen lamp 6V-30W, vinyl cover Power cord BE Anti Mould Agent Immersion oil AQ, 8cc TF Trinocular Eyepiece Tube (10010 0/100) Eyepiece CFI E 10X (Field No. 20)</p> <p><b><u>PHASE CONTRAST ATTACHMENT</u></b> Consisting of: E2 Phase Contrast Condenser with 1 objective position guide marking, N.A. 1.25 Centering Telescope N S-PH1 Slider for phase 10x -40x CFI E Plan Achromat 4X, N.A. 0.10, W.D. 30mm (F.O.V.20) MRP20102 CFI Achromat DL 1 OX A N.A. 0.25, W.D. 6.1 mm, Ph1 MRP20402 CFI Achromat DL 40X A N.A. 0.65, W.O. 0.65 mm, Ph2, Spring-loaded CFI Achromat DL 100X Oil A N.A. 1.25, W.D. 0.23 mm.. Ph3 1 Spring-loaded GIF Filter, 33mm Blue filter 33mm</p> <p><b><u>ALL-IN-ONE DIGITAL CAMERA SYSTEM</u></b> With 5.24 total million pixels resolution with 2/3" High Density I II <b>Consisting of:</b> Digital color camera with 5.07 effective pixels resolution, Sensivity Equivalent to IS064, Gain 1-24x, Binning modes 2x2, 4x4, Exposure control 1/1000-60 sec, Dynamic range more than 60 db (1000: 1) Digital Camera Control Unit DS-U2 1 with image Analysis Fsoftware included for Image acquisition, Annotation and with Report Generation facility. OS Camera I/F cable AC Adapter DSi 1 Power Cord BE (220-240V) USB A to B Cable C-mount 0.7X Relay Lens</p>	

**IMAGE ANALYSIS SOFTWARE**

Image Analysis software for Measurement acquisition 3D capability

**COMPUTER SPECIFICATION**

**1. Computer: Intel Pentium Duo Core, 2GB RAM, 200GB HOD, 1 R/W CD/DVD, 17" TFT Monitor, 3.4 GHz, along with UPS & HP Color LaserJet Printer.**

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Technical specifications for <b>microscope with five teaching heads</b>	<b>Feature are available Yes/No</b>
<p><b><u>Basic Unit (1 00-240V) consisting of:</u></b></p> <p>Main Body for right side stage handle with substage left handle <b>with built-in Fly-eye lens for uniform illumination, built-in filter cassette, diffuser</b> field diaphragm, built-in autophoto preset switch adjusting tools (2 pieces), fine and coarse focusing fine 0.1mm per rotation &amp; coarse 14mm per rotation with focus stopper and torque adjustment</p> <p><b>built-in transformer, for 12V 100W lamphouse</b></p> <p style="padding-left: 40px;"><b>Precentered Lamphouse 100W</b></p> <p style="padding-left: 40px;"><b>Halogen Lamp 12V-100W LL</b></p> <p style="padding-left: 40px;">Immersion Oil A, 8cc</p> <p style="text-align: center;"><b>MECHANICAL STAGE</b></p> <p>Rectangular mechanical stage R2 1 W/2-Slides Specimen holder (Long Finger) with stay in position stage handle on right side with stage size of 243mm X 159mm surface area &amp; cross travel range of 78mm X 54mm</p> <p>Sidentopf design Super widefield Trinocular Tube 1 <b>"F2", UW (for F.O.V. 22/25mm) with tube incl. angle at 25°</b></p> <p>Anti Mould Agent</p> <p>Eyepiece Lens CF110x <b>with diopter adjustment 2 (F .0. V.22mm</b></p> <p>Eyepiece Guard</p> <p>Reversed Sextuple Revolving Nosepiece</p> <p><b>Universal Turret condenser for Brightfield/Phase Contrast/Darkfield upto 40X/ Fluorescence Microscopy</b> with 6 position (1 bright field</p>	

position with aperture diaphragm NA0.9, 3 phase position (PH1, PH2, PH3), 1 Dark field position, NA0.75, 1 closed position

CFI Plain Achromat 4X N.A. 0.10, W.D. 30.0 mm

CFI Plain Achromat 10X N.A. 0.25, W.D. 10.5 mm

CFI Plain Achromat 40X N.A. 0.65, W.D. 0.56 mm spring loaded

CFI Plain Achromat 100X Oil N.A. 1.25, W.D. 0.20 mm spring loaded

**MULTI TEACHING ATTACHMENT FOR FIVE**

**OBSERVERS**

Teaching Head for 5 Persons Set (220-240V)

Consisting of:

Main Teaching Unit

Teaching Unit side by side observation type L

◆ **Support for side by side observation Unit**

◆ **Pointer Unit 360° Rota table**

AC Adapter for point unit

Binocular Tube, F.O.V.22mm

Eyepiece Lens CFI 10X **with diopter adjustment**

**(F.O.V.22mm)**

Power Cord BE (220-240V)

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<b>Technical specifications for MICROTOME</b>	<b>Feature are available Yes/No</b>
<p>The instrument should have Motorized feeding system with manual sectioning with rocking mode facility and ability for voltage selection, Hand wheel brake in any position.</p> <ul style="list-style-type: none"> <li>➤ Control panel for display, Blade Holder, Disposables blades Low Profile Indication of cutting parameters, can be switched over to large indication.</li> <li>➤ Large section waste tray, covering the entire working area.</li> <li>➤ Ergonomically optimized operating elements for non tiring usage.</li> </ul> <p>1. Section thickness setting : 0.5 to 100 um</p> <p>2. Setting values: : 0.5 to 5 um in 0.5 um increments 5 to 20 um in 1 um increment 20 to 60 um in 5 um increment 60 to 100 in 10 um increment</p> <p>3. Horizontal specimen feed : 28 mm +/- 1 mm., feed motion via step motor</p> <p>4. Coarse feed : Motorized coarse feed in two steps i.e 300 um /sec and 900 um/sec.</p> <p>5. Vertical specimen stroke length : 64 mm.</p> <p>6. Specimen orientation : Horizontal 8 deg., Vertical 8 deg.</p> <p>7. Trimming Section thickness : 1 to 500 um</p> <p>8. Specimen retraction : 5 to 40um in 5 um increment, can be turned off.</p> <p>9. Voltage supply : 230 V-50/60 Hz.</p>	

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Technical specifications for <b>Tissue Embedding System</b>	<b>Feature are available Yes/No</b>
<ol style="list-style-type: none"> <li>1. The instrument should incorporate two separate systems i.e cold plate and heated embedding module.(dispensing module integrated thermal unit with 2Nos. Heated chamber for Embedding moulds and processed tissue)</li> <li>2. Cold plate should have constant temperature at -10 deg.C.</li> <li>3. Approx. 60-70 cassette molds capacity with acrylic cover.</li> <li>4. Two number of Paraffin collection trays.</li> <li>5. Heated embedding module should be adjustable, paraffin dispenser control with paraffin flow rate adjustment.</li> <li>6. Paraffin reservoir capacity min 4-5 litre.</li> <li>7. Working temperature 55 deg to 70 deg. C. -Heated removable paraffin waste tray.</li> <li>8. All functions of the system controlled through easy to read L.E.D. display. Programmable on and off timer.</li> <li>9. Six opening for forceps wells appx. 70 dec. C temperature</li> </ol>	

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Technical specifications for <u>-70° C Deep Freezer</u>	Feature are available Yes/No
<p>I. A CFC free, vertical type with multiple partitions with single door -70°C Deep Freezer of capacity of not less than effective capacity of 400 liters.</p> <p>II. Should have 3-4 compartments, with doors having locking facility.</p> <p>III. Temperature, voltage input indicators should be in-built with alarm system and digital displays.</p> <p>IV. It should be supplied with appropriate voltage stabilizer, acoustic and visual alarm</p> <p>V. Should have a polyurethane foam insulator</p> <p>VI. Warranty for three years and service facilities after</p>	

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<b>Technical specifications for Gel Dryer</b>	<b>Feature are available Yes/No</b>
I. Dryer with thermo stable lid along with thermo stable plastic sheet (interceptor)  II. Uniform Heating platform to the upper limit of 90-95C  III. Dryer with suction pump and collector vessel  IV. Suction control facility with suction pump  V. With standard Voltage input for Indian standards  VI. Accessories including Tubing and control knobs, should be included  VII. Warranty for three yrs separately for pump and dryer.	

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Technical specifications for <u>Vortex Mixer</u>	Feature are available Yes/No
I. Speed range 500-3000 RPM, with manually controllable knob  II. Acceleration time 3s  III. Orbit 2mm  IV. Overall dimensions 120x180x100 mm  V. Orbit diameter 4mm  VI. Overall dimensions 90x150x80 mm  VII. Weight, not more 15kg  VIII. Power supply External power supply DC 12V, 500 mA	

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<b>Technical specifications for Speed Vac (<u>Vacuum</u>)</b>	<b>Feature are available Yes/No</b>
<p>I. Fully automatic bleeder valve to assure complete sample protection</p> <p>II. Inert glass cover with radiant energy source for accelerated drying rates.</p> <p>III. Oil-free Teflon coated vacuum pump.</p> <p>IV. Ultra low temperature vapor trap with CFC free refrigerant.</p> <p>V. Dual timers to control drying time and drying rate.</p> <p>VI. Three user selectable drying rates.</p> <p>VII. Sample holders of rotor of two rows having 1.5 and 2 ml capacity</p> <p>VIII. Inbuilt oil free pump</p> <p>IX. Accessories to utilize it as a vacuum suction in separate apparatus.</p>	

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<b>Technical specifications for LEEP (Electro Surgical generator Unit)</b>	<b>Feature are available Yes/No</b>
<ul style="list-style-type: none"> <li>• 120 -300 watts maximum power output</li> <li>• Monopolar and bipolar capable</li> <li>• Coagulation and fulguration modes</li> <li>• Pinpoint and spray coagulation</li> <li>• Split or solid return electrodes</li> <li>• Delivers consistent, repeatable power into varying load impedances.</li> <li>• Defibrillator-proof type CF equipment</li> <li>• Footswitch indicator on face of unit</li> </ul>	

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<b>Technical specifications for Optical Colposcope with digital camera</b>	<b>Feature are available Yes/No</b>
<p>A. Optical Colposcope with five step magnification changer (5 to 20 X magnification approximately) with world class optics and inbuilt digital photography attachment.</p> <p>B. 45° inclined binocular head ( with 10 or 12.5X eye piece) with separate arm for photography attachment</p> <p>C. Large fine focusing range nearabout 18 mm. with 250 mm to 300 mm working distance.</p> <p>D. Wide field optics for the largest possible view.</p> <p>E. Beam splitter with separate universal mount for SLR camera and E mount for video handycam.</p> <p>F. Integrated optional video camera.</p> <p>G. Hogh intensity fiber optice illumination via integrated light guide.</p> <p>User friendly single hand operation.</p>	

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<b>Technical specifications for Digital SLR Camera with accessories</b>	<b>Feature are available Yes/No</b>
A. Digital SLR Camera of at least 10 mega pixel and above with:- <ul style="list-style-type: none"><li>a. 18-105 mm compatible lenses</li><li>b. AF DX VR 55-200 mm IF ED or 70- 300 mm compatible lenses</li><li>c. Auto teleconverter of 2.0 X</li><li>d. Ring Flash</li><li>e. Wireless remote control</li><li>f. USB cord</li></ul>	

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Technical specifications for Colour photocopier	Feature are available Yes/No
I. Colour Digital Multifunction Imaging System	
II. Laser Dry Electrostatic Transfer System	
III. Image Server Memory: 1 GB	
IV. Hard Disk Drive : 80 GB	
V. With Network Interface Connections	
VI. UFR II Print – PDL Support	
VII. Resolution 1200X1200 dpi	
VIII. Operating systems Windows 2000,/XP/Vista/server2003/	
IX. TCP/IP/(LPD)/Port9100/IPP/IPPS/SBM etc	
X. Duplexing Automatic Document Feeder	
XI. Paper size A5 to A3	
XII. Acceptable Original: A3 to A3	
XIII. Access control	
XIV. Auto Sort Facility	

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<b>Technical specifications for Cold Microfuge</b>	<b>Feature are available Yes/No</b>
<p>I. A small, refrigerated bench top Microfuge with Max. rcf &gt; 16,000x g.</p> <p>II. Should have an Angle Rotor with a capacity to hold 24 x 1.5/2.2ml tubes RCF : &gt;16,000 x g and adapters for 0.2ml PCR tubes and 0.4ml tubes.</p> <p>III. Short run function by using soft push buttons or Time pre-selection in seconds' cycle from 0 to 30 sec should be possible.</p> <p>IV. Temperature range maintenance from 0 C-25C</p> <p>V. Motor should be brushless, induction drive.</p> <p>VI. Should have LCD display of speed, rcf and Time, Lid lock device with latch</p> <p>VII. Imbalance sensor with indication.</p> <p>VIII. Should be supplied with three year replacement warranty</p>	

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<b>Technical specifications for PCR workstation</b>	<b>Feature are available Yes/No</b>
<ul style="list-style-type: none"> <li>I. Microprocessor controlled</li> <li>II. Class 100 (ISO 5) vertical laminar flow</li> <li>III. 360-degree visibility</li> <li>IV. Integral polypropylene base for easy cleaning</li> <li>V. Built-in fluorescent light</li> <li>VI. HEPA filter monitor to automatically indicate when filter change is required</li> <li>VII. 220 V</li> <li>VIII. Dimensions 24" ±6" depth, 30-36" width (Front),</li> <li>IX. Shortwave UV light</li> <li>X. Custom sturdy cart for unit to be made portable.</li> <li>XI. Spare set of filters.</li> <li>XII. Three years warranty</li> </ul>	

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<b>Technical specifications for Vertical Electrophoresis System</b> (4 sets of 1 midi, 2 mini and one power pack in each set)	<b>Feature are available</b> <b>Yes/No</b>
<p>Each set of vertical electrophoresis system should include:</p> <ol style="list-style-type: none"> <li>I. One midi electrophoresis apparatus of size 18 x 16 cm plates or standard size of MIDI PAGE gel and should include 2 sets of glass plates (including notched inner plate) and supplied with clamp assemblies, dual gel casting stand, spacers and all other standard accessories</li> <li>II. Should be supplied with a suitable power pack with Output-Volts:5-1000V DC, 1 volt step, Watts: 0-250 Watt, Amp: 0-50mA, Accuracy: V= ± 2% 5-100 DC, I= ± 1% 0.1-500mA, P= ± 1% 0-250W, Four or more output jacks in parallel, Display format = dual LED readouts, With no load detection alarm and resume function following power interruption. Overload and short protection by fuse. Supplied with Three year parts and service warranty.</li> <li>III. Should be supplied with two mini vertical electrophoresis module having electrode assembly, clamping frame, tank, lid, socket for power cables, mini cell buffer dam and a system for a poly acryl amide gel electrophoresis of size 8.3 x 7.3 cm or standard mini gel apparatus and other standard accessories</li> </ol>	

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Technical specifications for Multi Channel Pipettes	Feature are available Yes/No
<p>I. Easy and quick 8 manually controlled multi-channels for variable volume pipetting</p> <p>II. Max volume range of <u>10/20ul, 50/100ul and 200/300ul</u> with standard volume limits</p> <p>III. volume setting with standard volume range</p> <p>IV. Autoclavable, detachable parts</p> <p>V. Easy and comfortable ejector and accessor pipette tip facility</p> <p>VI. Universal tip applicability with good retention capabilities.</p> <p>VII. Warranty of three years along with onsite service facilities</p>	

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<b>Technical specifications for Chemiluminescence Imager with Software</b>	<b>Feature are available Yes/No</b>
<p>i. Cooled CCD camera-based Gel Documentation System for analyzing chemiluminescence, visible dye labeled proteins and fluorescence - labeled nucleic acids and X-ray films and should be suitable for 220V AC.</p> <p>ii. Should have paltier cooled CCD camera with resolution not less than 4 Mega pixels with digital and optical zoom, USB2 and Fire port (IEEE1394) for rapid data transfer.</p> <p>iii. UV transilluminator plateform size not less than 20 x 20 cm.</p> <p>iv. Should include suitable darkroom, UV transilluminator, epi-UV, Epi- and trans- white illuminator</p> <p>v. UV light source should emit light in the bandwidth 250 - 365 nm and White light range between 400-700 nm.</p> <p>vi. Filters for fluorescence (approx <math>\lambda</math> - 465, 520, 555 and 620nm) and chemiluminescence, and a set of additional UV and white light sources should be provided.</p> <p>vii. System should be supplied with software that should be able to perform volume analysis, image rotation, molecular weight calculation, Quantitation, densitometry and associated routine image analysis. Additionally, system should be supplied with 2D gel analysis software.</p> <p>viii. Software preferably should not be vendor – specific and must be compatible with Microsoft windows XP or higher.</p> <p>ix. System should be provided with image processing hardware (minimum configuration) - Intel Pentium duo core II processor or higher, two 240 Gb or higher physically separated HDD/SATA, 4 GB RAM, Super-drive (CD/DVD writer), 21” high resolution LCD-TFT screen monitor, optical mouse, and good quality (HP) B/w Laser printer with a set of additional cartridge, at least 2 KVA online UPS having 60 min backup and battery case. Should be supplied with additional portable USB2 enabled hard drive of about 300GB to carry data. Supplied with a separate Sony DSC-T900/B handheld camera with accessories for still captures of larger gels.</p> <p>x. Should be supplied with instrument and software training and three-years comprehensive and subsequent 2 years on-site service warranty.</p>	

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<b>Technical specifications for Gel Documentation System</b>	<b>Feature are available Yes/No</b>
<ol style="list-style-type: none"> <li>1. 16 bit CCD camera (A/D) with firewire connection to computer.</li> <li>2. Resolution – 2.0 Mega Pixel,</li> <li>3. Gray level – 65,536</li> <li>4. Darkroom with UV protective gel viewer window to visualize gel from out side of darkroom without opening dark room door.</li> <li>5. There should be dual Epi UV light 254 and 365nm inside the darkroom.</li> <li>6. There should be over head white light and interchangeable emission filter holder with ETBR filter.</li> <li>7. Roll-out UV Transilluminator tray with UV Transilluminator having 254, 302 and 365nm options.</li> <li>8. There should be transilluminator safety shut down and transilluminator timer switch on darkroom.</li> <li>9. UV to White light converter plate.</li> <li>10. Software – Image acquisition and analysis software for image capture and analysis of gels, plate, and membranes as well as colony counting with following capabilities-</li> <li>11. Extensive image acquisition function.</li> <li>12. Image enhancement capabilities.</li> <li>13. Advance 1D lane densitometry analysis: easy to use function for accurate quantitation, generation of lane profile graphs, plus intensity histogram, concentration curve. Protein quantitation, quantitative PCR, Western blot densitometry, Dot blot analysis, GFP expression analysis, Gel scoring, PCR gene expression and TLC analysis. Lifetime warranty and/or compatible with new pc.</li> <li>14. Suitable branded computer with 160 GB HDD, 2GB RAM, 17” Monitor, mouse, keyboard, IKVA or higher UPS APC make and Licensed windows.</li> <li>15. Camera Nikon D5000 Kit With AF-S DX 18-55mm VR f/3.5-5.6G and additional lens AF-S DX VR Zoom-Nikkor 55-200mm f/4-5.6G IF-ED</li> </ol>	

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<b>Technical specifications for Hybridization oven</b>	<b>Feature are available Yes/No</b>
<ul style="list-style-type: none"> <li>I. Hybridization oven with one chamber</li> <li>II. Vacuum glass door.</li> <li>III. Should have a temp. range from 10°C to 85°C</li> <li>IV. Rotor speed 1-10 RPM</li> <li>V. Should have platinum temperature sensor</li> <li>VI. Control accuracy 0.1°C.</li> <li>VII. Equipment should also have a shaker platform with approximate dimensions 22 x 23.5cm (W x D)</li> <li>VIII. Shaking speed 6-60 RPM.</li> <li>IX. Accessories should include holders,</li> <li>X. 6 Large hybridization bottle (30cm, diameter 3.5 cm)</li> <li>XI. 12 medium hybridization bottle (15cm, diameter 3.5 cm)</li> <li>XII. 12 small hybridization bottle (10 cm, diameter 3.5 cm)</li> <li>XIII. Should be provided with 5 packs of Nylon meshes and all other manual accessories.</li> <li>XIV. With Specific safety certifications</li> <li>XV. Equipment should be supplied with 3 years parts and service warranty</li> </ul>	

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<b>Technical specifications for -20° C Deep Freezer (Imported)</b>	<b>Feature are available Yes/No</b>
<p>I. A CFC free, vertical type with double door -20oC Deep Freezer of capacity 300-350L.</p> <p>II. Should have four shelves in upper compartment and lower compartment with 3-4 pull out drawers.</p> <p>III. Temperature indicator should be in-built with alarm system.</p> <p>IV. It should be supplied with appropriate voltage stabilizer.</p> <p>V. Should have a polyurethane foam insulator</p> <p>VI. Visual &amp; acoustic alarm</p>	

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Technical specifications for Multi Block PCR machine	Feature are available Yes/No
<p>I. 3-4 block thermocycler.</p> <p>II. Peltier system for temperature control.</p> <p>III. With a heated lid.</p> <p>IV. It should holds 96 x 0.2ml tubes or one 96-well microplate.</p> <p>V. There should be provision for interchangeable block that can hold 0.5 ml PCR tubes</p> <p>VI. Thermal range: -5 to +105°C</p> <p>VII. Ramping speed: up to 3°C/sec</p> <p>VIII. Memory: 200 programs.</p> <p>IX. With appropriate UPS.</p> <p>X. Three years warranty</p>	

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<b>Technical specifications for Overhead Shaker</b>	<b>Feature are available Yes/No</b>
<p>I. Provides mixing for diffusion, dialysis, extraction etc.</p> <p>II. Rotation can be set from 5-50 rpm</p> <p>III. Timer can be set from 0-99 hrs/ 1-59 min.</p> <p>IV. Should be capable of angle of rotation adjustable from horizontal for minimal mixing to vertical for full end over end mixing</p> <p>V. Should be provided with plastic coated spring clips</p> <p>VI. Should be provided with necessary accessories like rotator for test tube, disk for 24x1.5 ml tubes, disk for 18x15 ml tubes and disk for 12x50 ml tubes</p> <p>VII. Provides serial rotation of tubes for extraction, diffusion etc.</p> <p>VIII. Mixing action can be set from 5-50 RPM</p> <p>IX. Rotating bars for tube dia from 10-30 mm</p> <p>X. Quick, easy coupling for exchange of rotating bars.</p> <p>XI. Should be provided with rotary mixer, bar for 50x1.5 ml tube, 20x15 ml tube, 12x50 ml tube</p>	

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<b>Technical specifications for Laminar flow hood (Biosafety cabinet)</b>	<b>Feature are available Yes/No</b>
<p>I. Microprocessor controlled Biosafety class IIB vertical laminar flow, with sliding door having dimensions width 6 ft, 30-36" depth, height 40-44", fitted with electrical plug points.</p> <p>II. 360-degree visibility</p> <p>III. Integral steel base for easy cleaning</p> <p>IV. Built-in fluorescent and white light</p> <p>V. HEPA filter monitor to automatically indicate when filter change is required</p> <p>VI. 30% air will be recirculated</p> <p>VII. Shortwave UV light, spare set of filters.</p> <p>VIII. Automatic cut off of UV (while opening the door)</p> <p>IX. Acrylic glasses for better visibility</p> <p>X. Ergonomic clean room chairs (4) should also be supplied with laminar flow hood</p> <p>XI. Three years comprehensive warranty and subsequent 2 years AMC</p>	

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<b>Technical specifications for <u>Autoclave Portable</u></b>	<b>Feature are available Yes/No</b>
<p>(i) <b>Vertical Portable Autoclaves having chamber capacity in between 65L to 80L, with adjustable operating temperature range 105~135°C and pressure 0.091MPa~0.212MPa for sterilization and capable of sterilizing solutions, tissue cultureware and bags.</b></p> <p>(i) <b>Should have 3.0kW electric heater as a heating source.</b></p> <p>(ii) <b>Should have real time Pressure and temperature guage and digital time display for sterilization</b></p> <p>(iii) <b>Should be supplied with all safety devices like water level sensor, current leakage breaker, lid interlock, over-heat prevention, over-pressure prevention system, open temperature sensor detection and safety valve.</b></p> <p>(iv) <b>Equipment should be provided with 3 years part and on-site service warranty 2 year AMC.</b></p>	

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Tender No. : ICPO/Store/Equip/2009-2010/

# Institute of Cytology & Preventive Oncology (ICMR)

Plot Number I-7, Sector 39 NOIDA 201301

## Terms and conditions of the tender for the supply of laboratory / office equipments.

1. Institute of Cytology and Preventive Oncology (ICMR), I-7, Sector 39 NOIDA 201301, invites Sealed Tenders for the purchase / import of Laboratory Equipments (as per list enclosed). The bidders may go through the terms and conditions carefully. In case any bidder fails to follow any or more of these conditions, the offer shall be summarily rejected.
2. The number and quantity of equipment is probable and subject to change without any further notice / reason. Notwithstanding the estimate of probable numbers, the Director In Charge Institute of Cytology and Preventive Oncology (ICMR), reserves the right to reject any or all the tenders without assigning any reason.
3. **(i) Two bids system shall be followed for the Equipment costing more than Rupees Five Lakhs.** Technical Bids and Price Bids should be submitted separately. Technical Bid should accompany EMD. Technical Bids and Price Bids will be accepted only from manufacturers of International repute / or their authorized agents for the supply, installation / commissioning of various equipments.  
**(ii) Single Bid System will be followed for equipment costing less than Rupees Five Lakhs.**
4. **The tender should accompany EMD as under:**
  - a. For equipment costing Rupees fifty lakhs and above Rs. 1,00,000.00
  - b. For equipment costing Rupees 25,00,001 to 50,00,000/- Rs. 75,000.00
  - c. For equipment costing Rupees 10,00,001 to 25,00,000/- Rs. 40,000.00
  - d. For equipment costing Rupees 5,00,001 to 10,00,000/- Rs. 20,000.00
  - e. For equipment costing Rupees 2,00,001 to 5,00,000/- Rs. 10,000.00
  - f. For equipment costing Rupees 50,001 to 2,00,000/- Rs. 5,000.00
  - g. Upto 50,000.00 Rs. 2,000.00The EMD should be submitted in the form of a Crossed Bank Draft in favour of **‘The Director in Charge, ICPO, payable at Delhi.** The tender without the EMD will be rejected summarily. No interest is payable on EMD.
5. Each offer should be accompanied by the completed forms, for each item of equipment, which is enclosed herewith. Separate tender along with EMD should be submitted for each item of equipment (duly filled and signed Check list). Clubbed tender / Quotation submitted in single tender form will be rejected. Separate EMD, for each equipment should be submitted in separate envelope and superscribed on each envelope the name of equipment.
6. The tenderer should clearly mention whether they are the manufacturer or authorized dealer/ agent of the manufacturers. In the case of dealer / distributor / agent latest letter of authorization from the manufacturer should be submitted along with the tender. The tenderer can also enclose the rates on the letter head of the manufacturer, if empowered to do so by manufacturers in writing, in addition to quoting in the tender form.
7. **Successful tenderers will have to deposit 10% performance bank guarantee (In INR) of the total cost of the equipment before placing the order which shall be released after one year of successful working of equipment and which will be treated as guarantee.**

- 8 A copy of specification, description and available illustrated literature should accompany the tender.
- 9 The availability of any required technical feature of the quoted equipments should be carefully and authentically answered with valid proof in the form of printed brochures, etc. Any default in this matter will attract rejection of the tender along with forfeiture of corresponding EMD.
- 10 If the equipment(s) are of Foreign Origin, CIF, New Delhi value and **FOB Value** should be quoted separately, giving **270 days** validity period for the tender along with other terms and conditions of supply.
- 11 (a) for imported goods the tender submitted should clearly mention the agency commission separately, failing which tender will be rejected. The agency commission will be paid in Indian Rupees in India after arrival of the goods and satisfactorily installation of the equipment.  
(b) Generally no amendment in the terms and condition of Letter of Credit are Permitted. If any amendment is required by the firm, the amendment charges of Letter of Credit will be borne by the firm by the firm both side (in or outside India).  
© The initial Letter of Credit Charges within India will be borne by the Institute at the time of opening of L/C and the outside L/C charges will be borne by the firm/beneficiary.
- 12 **Payment will be released only after receiving of the goods in good condition and as per specification. In case of imported item payment through foreign demand draft only photocopy of DD will be handed over to supplier and original DD will be released only after receiving the entire goods/consignment after satisfactory report. In case of revalidation/cancellation of DD caused by the firm, the bank charges will be born by the Indian agent. These payment terms will also apply during the import of accessory of equipment in future.**
- 13 All the items of equipment should be warranted **for Three Years**. Installation charges and AMC charges for the subsequent three years should be clearly mentioned in the Tender Document clearly.
- 14 Each tender must contain the rates not only in figures but also in words. The total value of each item should invariably be entered in column specified and the total value of the tender should be mentioned both in Foreign Currency as well as in Indian Currency.
- 15 Increased statutory levies and duties above the rate quoted in the tender will be borne by the manufacture/tenderer and the Institute shall not extend validity period for this reason and it will not bind the Institute for supplies beyond the date specified in the Order / Tender.
- 16 No tenderer shall be allowed at any time on any ground whatsoever to revise or modify the rates quoted by him. The tenderer will not be allowed to withdraw the offer quoted. In the event of withdrawal the EMD deposited by the tendered shall be forfeited.
- 17 **Tender for only one model as per our specifications should be quoted. No optional model should be included in the tender.**
- 18 The Bidder should ensure that the equipment offered by him meets the specification laid down by the Institute. If at any stage (even after placement of order, shipment, installation, etc.) it is noted that the equipment offered does not meet the specification laid down by Institute, the Director, ICPO reserves the right to take any decision with forfeited of EMD. Any dispute in this regard concerning any terms and conditions of the tender and on the supply of equipment will be subject to New Delhi Jurisdiction only.
- 19 Tender should be preferably, typewritten and every correction in the tender should

- invariably be signed by the tenderer, failing which, the tender is liable to be rejected.
- 20 The EMD will be returned to unsuccessful tendered only after the tenders are finalized. In case of successful tenderer, at the discretion of the Director in Charge , ICPO, it shall be retained till the validity of the Warranty Period.
- 21 Telegraphic / Conditional tender will not be accepted.
- 22 The warranty period will start from the date of installation and satisfactory working condition of the equipment.
- 23 All damaged or unapproved goods shall be returned at supplier's cost and risk and the incidental expenses incurred by the Institute thereon shall be recovered from the supplier. Defective parts in equipments, if found, before installation and during the warranty period, shall be replaced within 45 days on receipt of the intimation from the office at the cost and risk of supplier including customs duty, etc.
- 24 If the tenderer (s) fail to execute the order(s) within the specified time (quoted in the tender) from the date of receipt of order or as mutually agreed to in writing, the order will be cancelled and EMD will be forfeited by the Institute.
- 25 The firm or tenderer will not be allowed to change the name of the beneficiary in the irrevocable Letter of Credit or in the Foreign Draft. In the event of change of beneficiary / principals the payment to be made by Foreign Draft, local agent will have to give the Bank Guarantee for the equivalent amount on a non-judicial stamp paper worth **Ts. 10/-**.
- 26 If any to the equipment(s), supplied by the tenderer are found to be bad, damaged or defective or inferior in quality and or not in accordance with description / specification or otherwise faulty or unfit for use or unwholesome the price(s) of such equipment(s) shall be recovered from the quoting firm or Indian agent from the date of receipt of information about defect.
- 27 The Instrument and Software should be installed and tested as per the specification free of charge. Training of two operators of the Institute staff is to be provided free of charge and up-gradation of software fro the equipment at least 05 years free of cost.
- 28 Manufacture's Test Certificate along with conditions and results is to be supplied along with the equipment.
- 29 **The firms should clearly indicate the pre-installation requirements for the equipment in their tender/quotation**, if the firm ignore this clause, the items required at the time of installation for the equipment will be borne by the firm on their own expenses.
- 30 Supplier should give an undertaking that spare parts will be supplied as and when ordered for a period of ten years from the date of installation.
- 31 Submission of tender will be considered as acceptance of all the terms & condition laid down in tender documents and it will be binding on the firm.
- 32 **Last Date of submission of Tender form is 17/03/2010 upto 4 P.M.** The cover (sealed) containing the tender should be **“Superscribed the name of equipment on the top of the Tender Envelope”**.

(Director in Charge)

**Enclosures:-**

- I. List of proposed equipments with specification.
- II. Check List (I) (To be Filled by Bidder)
- III. Check List (II) (To be Filled by Bidder)

**CHECK LIST – I**  
**Institute of Cytology & Preventive**  
**Oncology (ICMR)**

Demand Draft of E. M. D (in separate envelope)	<b>DDNo:</b> _____ <b>Dt.</b> _____ <b>Rs.</b> _____ <b>payable at New Delhi</b>
Technical Bids in separate envelope (Enclosed EMD with Technical Bids)	
Price Bids in separate envelope	
Check List II duly filled in	
Technical Specifications duly filled in	
Certificate of manufacturer's/authorization of agent (s)	
Detailed Literature in original of quoted item attached	
Highlighted the specification in the literature with marker	
Copy of ISO Certification	
AMC Charges for subsequent for Three Years	
Tender Documents purchased (Vide DD Number)	<b>DD No:</b> _____ <b>Date</b> _____
Other Documents if any attached	

I have gone through all the terms and conditions and undertake to abide by them. I agree that in case I have not followed any terms and conditions and have provided wrong and misleading information my offer shall be rejected.

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**CHECK LIST – II**  
**Institute of Cytology & Preventive**  
**Oncology (ICMR)**

<b>1</b>	<b>Name &amp; Description of Equipment (with make &amp; model)</b>	
<b>2</b>	<b>Rate per Unit</b>	
<b>3</b>	<b>Excise duty, if any</b>	
<b>4</b>	<b>Other taxes if any</b>	
<b>5</b>	<b>FOB Price (if imported)</b>	
<b>6</b>	<b>CIF New Delhi if imported</b>	
<b>7</b>	<b>Indian Agency Commission</b>	
<b>8</b>	<b>Installation charges if any</b>	
<b>9</b>	<b>Total Value</b>	
<b>10</b>	<b>Warranty period</b>	
<b>11</b>	<b>AMC charges for sub 3 year</b>	
<b>12</b>	<b>Pre-Installation requirement of the Equipment. (if any)</b>	
<b>13</b>	<b>EMD Details</b>	<b>DD</b> <b>No. _____ Date _____ Amount _____</b> <b>Drawn on/Branch _____</b>

**Please Note: - Filling up above Column is Mandatory. Form without Filling of above Details may be rejected.**

**I/We have gone through the terms and conditions of the tender documents and agree to abide by them.**

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