

MAHARSHI DAYANAND UNIVERSITY ROHTAK  
TENDER NOTICE

Sealed Tenders are invited subscribed as "Tender for Equipments" for supply of Instruments along with earnest money equal to 2% of the quoted rates on the total amount involved in the shape of Bank Draft in favour of Finance Officer, M.D. University, Rohtak so as to reach the Department of Zoology upto 19.12.2011.

The Tenders will be opened on 20.12.2011 at 11.30 a.m. in the Office of the undersigned. Interested supplier may have the detailed specifications and Terms & Conditions from the Department of any working day upto 5.00 p.m. or from University Website [www.mdurohtak.com](http://www.mdurohtak.com)

Head  
Department of Zoology

---

NOTE TO BE PUBLISHED IN PRESS (only for display on website and to supply to the firm).

Sr. No.	Name of the item	Specification						
1.	Electronic Balance	Maximum Capacity 30gm Sensitivity upto 1.0mg and/or 0.1mg						
2.	Refrigerated centrifuge	Bench top Refrigerated Centrifuge Machine Microprocessor based Digital R.C.F. indicator Electronic Safety Lid Lock Imbalance Indicator Digital Temperature Controller cum Indicator CFC free indicator Voltage Stabilizer  Technical Parameter <table border="1" data-bbox="451 1654 1401 1864"><tbody><tr><td>Maximum Speed (Programmable Speed regulator)</td><td>20000 r/m</td></tr><tr><td>Max. RCF</td><td>17800xg</td></tr><tr><td>Digital Timer</td><td>0-99 min</td></tr></tbody></table>	Maximum Speed (Programmable Speed regulator)	20000 r/m	Max. RCF	17800xg	Digital Timer	0-99 min
Maximum Speed (Programmable Speed regulator)	20000 r/m							
Max. RCF	17800xg							
Digital Timer	0-99 min							

		Motor	Brushless Automatic Balance Motor
		Temperature Range	-20 C – 40° C
		Temperature Accuracy	+ -2° C
		Power	AC 220 V, 50 Hz, 20A
3.	Microtome	Section Setting and Adjustment	
		Section Thickness Indicator	Visual Display
		Range of Section thickness	1-50 µm
		Section Thickness Setting	1-2 µm, 0.5 µm increment 2-10 µm, in 1 µm increment 10-20 µm, ion 2 µm increment 20-100 µm, in 5 µm increment
		Trimming Thickness Setting	1-600 µm
		Specimen Movement	
		Total Horizontal Specimen Feed	28mm
		Vertical Specimen Stroke	60mm
		Specimen Orientation	XY axis : 8°
		Specimen Retraction	20µm
		Specimen Clamp Orientation	360°
		Convenient Specimen Holder	
		Specimen Size	Standard Maximum 55 x 55 mm
		Smooth Fatigue free Hand Wheel	
		Hand Wheel lock	Positive lock at 12 or 6 o'clock
		Knife Holder Base	
		Displacement	Lateral Displacement
		Adjustments	
		Clamping Mechanism	Clockwise

		Knife Holder	
		Type of Knife used	Microtome Knives of size 100mm-300 mm
		Disposable Blade	Can be used with Blade Holder
		Reverse Wheel	
		Function	Trimming
4.	Inverted Microscope	<p align="center"><u>Specification for Advance Trinocular Inverted Research Microscope</u></p> <p>Microscope Body :                      Microscope body with Infinity optical corrected optical system, Mechanical tube length 200mm, Parfocal distance 60mm, Extendable optical free space up to 80mm for attaching others attachment in future, facility for 2 way or more light distribution of light, up/down focussing, side port for attaching digital camera upgradable to one additional port for another camera, VFD screen and operation buttons on front of the microscope body for verifying microscope status including attached objection information, binocular tube with diopter adjustment facility.</p> <p>Condenser                                      Universal turret condenser (suitable for all microscopy Techniques) with 5 position</p> <p>Illumination                                      12V 100W Precentred Halogen Illumination.</p> <p>Eyepieces:                                      10X with F.O.V 22 and diopter adjustment facility on both eyes, anti fungus type,</p> <p>Nosepiece:                                      At least Sextuple revolving nosepiece to accommodate six objectives at a time.</p> <p>Mechanical stage: of                              Rectangular mechanical stage with cross travel range of 70x50mm and stage size of 310x300mm</p> <p>Focusing system:                              Should have coaxial coarse and fine focusing having coarse stroke of 5mm/rotation and Fine stroke of 0.1mm/rotation.</p> <p>OBJECTIVES                                      CFI Plan Achromat 4X A, N.A. 0.10, W.D. 30.0mm CFI Achromat 10X, N.A. 0.25 W.D. 6.2 mm, ph1  CFI Achromat Larger working distance (LWD) 20X N.A. 0.40,</p>	

		<p>W.D. 3.1mm, Ph1</p> <p>CFI Super Plan Fluor Extra Larger working distance</p> <p>(ELWD)</p> <p>40X N.A. 0.60, W.D. 3.6-2.8mm, Ph2</p> <p>FLUORESCENCE ATTACHMENT</p> <p>Precentred 130W MERCURY-FIBER LIGHT ILLUMINATOR WITH LAMP LIFETIME OF 2000 HOURS FOR FLUORESCENCE AND LONG TERM OBSERVATION OF THE SPECIMENS.</p> <p>SHOULD HOLD SIX FLUORESCENCE FILTER BLOCKS IN</p> <p>ROTATING TURRET WITH IN-BUILT NOISE TERMINATOR MECHANISM WHICH PREVENTS STRAY LIGHT FROM THE REFLECTOR FROM ENTERING THE OPTICAL PATH, RESULTING HIGHER CONTRAST &amp; EVENT BLACKER BACKGROUND. APTERTURE &amp; FIELD DIAPHRAGM CENTABLE. BUILT-IN ND4/ND8 &amp; ND16 FILTER.</p> <ul style="list-style-type: none"> <li>• FILTER BLOCK FOR BLUE WITH EXCITATION FILTER EX465-495, DICHOIC MIRROR DM505 AND BARRIER FILTER BA515-555 FOR FITC/ACRIDINE ORANGE/AURAMINE.</li> <li>• FILTER BLOCK GREEN WITH EXCITATION FILTER EX 540/25, DICHOIC MIRROR DM565 AND BARRIER FILTER BA605/55 FOR TRITC/RHODAMINE/PROPIDIUM IODIDE.</li> <li>• FILTER BLOCK UV WITH EXCITATION FILTER EX 330-380, DICHOIC MIRROR DM400 AND BARRIER FILTER BA435-485 FOR DAPI/HOECHST</li> </ul> <p><u>DIGITAL CAMERA SYSTEM:-</u></p> <p>DIGITAL COLOR COOLED CAMERA CAPABLE OF HANDLING BRIGHTFIELD, FLUORESCENCE, DIC, DARKFIELD IMAGES WITH 2/3" HIGH DENSITY CCD CHIP, APPROX. 5.24 MILLION PIXEL RESOLUTION. PELTIER COOLING -20°C BELOW AMBIENT, LIVE DISPLAY MODE: (5M INTERLACE MODE - 5.9 FRAMES/SEC.; 23 FRAME PER / SEC. WITH ROI &amp; BINNING) ; BINNING MODES : 2X2, 4X4, DIGITAL ZOOM : UPTO 16X (8 STEPS) ; INTERVAL SHOOTING : 5 SEC. - 12 HR INTERVALS; SOFTWARE SHOULD BE COMES ALONGWITH CAMERA FOR AQUIRING &amp; CAPTURING OF IMAGES. SHOULD HAVE SEPARATE MODES FOR DIFFERENT MICROSCOPY TECHNIQUES i.e</p>
--	--	---

		<p>BRIGHTFIELD, FLUORESCENCE, DIC, DARKFIELD IMAGES. FIREWIRE FOR ATTACHING CAMERA ONTO DESKTOP/LAPTOP THROUGH SINGLE WIRE. CAMERA CONTROL UNIT SHOULD CAPABLE TO CONTROL TWO CAMERAS SIMULTANEOUSLY</p> <p><u>Software should be with following features:</u></p> <ul style="list-style-type: none"> <li>• Acquisition and device control up to three-dimensional acquisition.</li> <li>• Image Acquisition,</li> <li>• Time-lapse image capture,</li> <li>• Z-series image capture,</li> <li>• Multipoint image capture,</li> <li>• ND Viewer,</li> <li>• AVI live-stream capture,</li> <li>• Objective calibration</li> <li>• Capturing data saving</li> <li>• Macro,</li> <li>• Report Generator facility,</li> <li>• Microscope, camera and software should be from same manufacturer for better compatibility.</li> </ul> <p>Data Processing Unit: Branded Computer with i-3 processor, 2 GB Ram, DVD Writer, 320GB or Higher Hdd, 18.5" TFT Color Monitor, Keyboard, Mouse with Ups.</p> <p><u>NOTE:-</u> The Microscope, fluorecence unit and camera should be of same make and manufacturer for future upgradability and flexibility This is a very essential terms to be followed .</p> <p><u>Upgradability:</u> Microscope system should have Upgradability up to Phase contrast, Dark field, DIC, HMC, Fluorescence, DIC.</p> <p>Note: Quote optionally the different parts in combination</p>
--	--	--

#### TERMS AND CONDITIONS GOVERNING THE TENDERS FOR THE SUPPLY

1. Every tender shall be accompanied by the earnest equal to 2% of the involved value. The earnest money should be deposited through Bank Draft in favour of the Finance Officer, M.D. University, Rohtak, payable at the State Bank of India, Maharshi Dayanand University, Rohtak.
2. The tender received without earnest money or after the due date shall not be entertained except with the special approval of the competent authorities.
3. The supplies shall be executed within the time specified in the supply order which may be extended by the Registrar on other application of the supplier explaining reasons/circumstances due to which time limit could not be adhered to. In the event of the supplier failing to supply the material within time, he shall be liable to pay as compensation an amount equal to one percent or such small amount as the Registrar may decided on the said amount of the contract, for every day that the quantity remains incomplete, provided that the entire amount of compensation shall not exceed 10 percent of the total amount of the contract. An appeal against these orders shall however lie with the Vice-Chancellor whose decision shall be final.

4. In case the contractor backs out of his contract, the earnest money deposited by him shall be forfeited besides any other action as may be considered necessary by the Vice-Chancellor.
5. All the charges including packing, forwarding and installation, taxes and other levies should be specified in the tender. The charges etc. not specified in the tender shall not be paid.
6. The quantity of material/supplies shall be subject to increase or decrease on the tendered rates. This increase or decrease shall be communicated by the University within 230 days of acceptance of the tender.
7. Supplies shall be made as per the schedule and within such time as is indicated in the supply order.
8. 100% payment will be made on receipt and inspection of goods to ensure the specifications and their good condition.
9. The rates accepted by the University shall be applicable up to 31.3.2012 and the supplier shall have to make supply during the period as and when required.
10. The tenders shall be **opened on 20.12.2011 at 11.30 a.m.** by the Purchase Committee in the presence of contractor/supplier and the Committee reserves the right for negotiation thereafter if considered necessary.
11. The Registrar reserved the right to reject or accept any offer without assigning any reasons.
- 12. All disputes subject to Rohtak jurisdiction.**
13. Guarantee/warranty of items must be mentioned.
- 14. The University stands exempted from the payment of Central Excise Duty/Custom Duty. The rates be quoted keeping that fact in view, Necessary certificate will be provided by the University.**
15. No tender documents will be issued and rates are to be officered on company's letter pad.
16. If a holiday occurs on the opening day, the tenders will be opened on the next working day.
17. The tenders received not in proper sealed cover shall not be considered and will be liable for rejection in a straightway.
18. Rates for each item are to be quoted in a separate letter head and are to be sent in a separate cover.

Head  
Department of Zoology,  
M.D. University, Rohtak