

# **MAHARSHI DAYANAND UNIVERSITY ROHTAK**

## **TENDER NOTICE**

Sealed Tenders superscribed as “Tender for Laboratory Equipments” are invited for supply of various instruments, with earnest money equal to 2% of the total amount involved in the shape of Bank Draft along with a separate draft of Rs.1000/- as tender fee in favour of Finance Officer, M.D. University, Rohtak so as to reach the Head, Department of Genetics, up to 25.03.2014. For detailed terms & conditions, visit the University Website [www.mdurohtak.ac.in](http://www.mdurohtak.ac.in). The tenders will be opened on 26.03.2014.

**REGISTRAR**

**NOT TO BE PUBLISHED IN PRESS (only for display on website)**

**Details of the equipments to be purchased**

S. No.	Name of equipments	Qty.	Make/ Specifications
1.	Microplate Reader	1	<p><b>Molecular Devices or BioRad</b>                      High Performance 96 &amp; 384 Well UV-Vis Absorbance Microplate Spectrophotometer with built in Cuvette ports                      A Monochromator Based 96 &amp; 384 standard spectrophotometer and microplate reader on a same instruments.                      Should have in-built cuvette port in upright position which can handle any commercially available cuvette.                      The system should read 12x75mm test tube.                      UV-Visible Absorbance with a built in 8 discrete sample beam and a reference beam to measure sequential wells avoiding well to well cross talk, the system should be capable of measuring end-points, kinetics, spectral scanning read types.                      The system should have temperature independent Path check technology to reproduce the datas similar to that of 96 and 384 cuvettes values as in spectrophotometer and without a need to export the data to a spreadsheet.                      Shaking: Orbital/vibrating/linear and user programmable timing &amp; frequency.                      Software integrated system which provides data acquisition, analysis and management capabilities, allowing cross-plate analysis and custom calculations.                      Photometric Performance :                      Wavelength range : 190-1000nm                      Wavelength selection : Monochromator                      Wavelength bandwidth : 2nm,                      Wavelength accuracy : &lt; +/- 2.0nm,                      Wavelength repeatability : +/- 0.2nm                      Photometric range : 0 to 4.000 OD,                      Photometric Resolution : 0.001 OD,                      Photometric Accuracy (Cuvette) : &lt; +/- 0.005 OD                      Photometric Accuracy (Microplate) : &lt; +/- 0.006 OD                      Photometric precision : &lt; +/- 0.003 OD                      Baseline flatnes : &lt; 0.0001 OD                      Stray Light : &lt; 0.005 % @ 230nm                      Light Source : Xenon Flash Lamp                      Temp Control : 4 Deg C above ambient to 45 Deg C.                      Temp Uniformity: +/-0.5 Deg C at 37 Deg C well-to-wells.                      Required accessories: Computer, online UPS, Printer &amp; other accessories (two of each glass and quartz currettes) should be supplied along with the instrument.                      Warranty – One Year.</p>
2.	Cooling Centrifuge	1	<p><b>Sigma or Eppendorf</b>                      Microprocessor controlled with backlight LCD display screen,                      Max Speed : 15,000 rpm                      Max Volume : 340 ml with 4 x 85 ml Angle Rotor                      Temp. range -10 to 40°C &amp; CFC free refrigeration                      50 user program storage memory, Time Pre selection upto 10sec, 99hrs-59 min or continuous run                      Maintenance Free, noiseless, brushless motor drive Preselection &amp; permanent display of set &amp; current parameter in terms of rpm, rcf &amp; time. Short run function with display of run time in seconds                      Automatic rotor identification prevents rotor over speeding 10 acceleration &amp; deceleration curves                      Self diagnostic system &amp; ERROR messages with audible alarm</p>

			<p>Single knob operation (no complicated keypad)  Motor over excess temperature switch  Operates on 230V 50Hz  Angle rotor for 4 x 85 ml and their adopters  Angle Rotor 24 x 1.5 / 2.2ml  Microtiter Rotor for 2-6 Microtiter plates  Servo voltage stabilizer should be provided along with instrument.  Warranty – One Year.</p>
3.	Ultrasonicator	1	<p><b>Qsonica or Sonics</b>  Shorter processing times and greater sample - to - sample consistency. Simple and effective operation. Unit equipped with a thumb switch which allows the user to hold the probe and deliver precise pulse of energy, while closely monitoring the sample. Programmable operation for set time and set amplitude upto 10 hours. Real-time energy monitoring with display of wattage and joules. Should be operable in pulse mode to avoid heat buildup in temperature sensitive samples.  Should includes: power cable, wrench set, converter cable, generator and suitable probes to process from low to higher volume for samples (0.2 -5 ml, 5 -50 ml &amp; 50 -1000 ml).  Acoustic enclosure made up of noise abating material should be supplied with suitable jack.  Sonicator should be lead free.  <u>Probe Sonicator 500 Watts</u>  Frequency : 500 KHZ.  Programmable timer : 10 hours.  Adjustable Pulse On/Off : 1 second to 1 minute.  Dimension : 8 " wide x 15.25" Long x 8.5" high.  Voltage : 230 V AC, 1.5 A , 60 Hz.  Servo voltage stabilizer should be provided along with instrument. Warranty – One Year.</p>
4.	Incubator Shaker	1	<p><b>Scigenics or Kuhnar</b>  Stackable Table Top Refrigerated Incubator Shaker  Unit should capable of holding 36 Nos of 100 ml flasks (or) 25 Nos of 250 ml flasks (or) 16 Nos of 500 ml flasks (or) 9 Nos of 1000 ml flasks. Shaking frequency should be of 30-350 RPM with a maximum of <math>\pm 2\%</math> deviation of the set value.  Temperature range should be 5°C to 80°C with an accuracy of <math>\pm 0.1^\circ\text{C}</math> (37.1°C to 80°C), <math>0.3^\circ\text{C}</math> (25.1°C to 37°C), <math>0.5^\circ\text{C}</math> (5°C to 25°C) in the working range. Absolutely smooth movement ensuring silent operation.  Movement of the shaker should comprise triple eccentric pin counter balanced drive with flywheel and mounted on square tubes frame.  The drive should be Brush Less AC drive. Forced air circulation (DAHS) should be incorporated to ensure stability and uniformity of the temperature inside the chamber. PUF insulation for minimum energy consumption.  MOC should be of powder coated cold rolled steel exterior and polished SS 304 grade stainless steel interior  Unit should be of front open door with toughened glass window for visibility. Unit should possess safety device like SSR for heater, overload protection, and more. Fluorescent lamp to view the culture  Required accessories including all the clamps/slots and SERVO stabilizer should be supplied along with the equipments.  Warranty – One Year</p>

## **General Requirements**

The supplier must have supplied similar Instrument in India and abroad. The suppliers must be a certified dealer of the instrument for that particular make. The list of users should be sent along with the quotation. The supplier must also provide along with the quotation the list of organizations that have purchased the quoted Instrument during last two years. The complete original brochure of the instrument with full details must be enclosed along with quotation.

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

1. Every tender shall be accompanied by the earnest money equal to 2% of the involved value along with a separate tender fee of Rs.1000/-. The earnest money and the tender fee 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 an 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 decide 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 on the tendered rates. This increase shall be communicated by the University within 30 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.
10. The tenders shall be opened by the purchase committee on 26.03.2014 at 3.00 pm in the office of Director Research, Department of Chemistry in the presence of contractor/supplier and the committee reserves the right for negotiation thereafter if considered necessary. The committee may also reject/consider any item on quality terms.

11. The Registrar reserves the right to reject or accept any offer without assigning any reason.
12. All disputes subject to Rohtak jurisdiction.
13. Guarantee / warrantee of items must be mentioned.
14. The University stands exempted from the payment of Central Excise Duty/Custom Duty. The rates are quoted keeping that fact in view.
15. Necessary certificate will be provided by the University.
15. No tender documents will be issued and rates are to be offered 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.

**REGISTRAR**