Maharshi Dayanand University Rohtak Tender Notice

Sealed tenders super-scribe as "tender for analytical instruments" addressed to Director, ACBT, M.D.University, Rohtak are invited for analytical instruments- Phase Contrast Microscope with Florescence attachment, Stereoscopic Microscope with Florescence and Photographic attachment, Scintillation Counter, CO2 Incubator, Elisa Reader, -86° c deep Freezer, High pressure Homogenizer, Laminar Flow, Spray Dryer, Falling Film Evaporator, Rising Film Evaporator, Liquid Nitrogen Holder, Orbital Shaker along with demand draft of earnest money @2% of quoted value in favour of Finance Officer, M.D.University Rohtak latest by 31.10.2008. The detail specification of equipments is available with ACBT. The above stated instruments should be validated by GMP/GLP/ISO/EC. The tender may be opened on 5.11.2008 at 11am in the centre.

Director ACBT

Advanced Centre for Biotechnology M.D.University, Rohtak-124001 Haryana

Tender notice

- 1. Sealed tenders super scribed as "Tender for scientific Instruments" should be sent.
- 2. The rates or the quotations/tender are to be sent in an envelop and this is put in another envelop which should be sealed.
- 3. The rates of S.T/C.S.T./Excise/Custom and other charges must be specified.
- 4. The rates of insurance, if any, should be specified. the firm will be required to submit original payee receipt along with the bill.
- 5. Please state the time period within the items will be supplied.
- 6. GUARANTEE PERIOD OF THE INSTRUMENT MUST BE MENTIONED.
- 7. Discount, if any, is to be given with the quotation/tender
- 8. Any other terms and condition must also be specified.

University stands exempted from the payment of Central Excise Duty/Central Import Duty, so quote rates in view of this. Necessary certificate will be supplied by the University when required. University may ask for Demonstration, whenever required. The date of negotiations, if necessary will be communicated accordingly after opening of tenders.

	Specification
Name of items	
Inverted Phase	1. Optical System: Infinity Color corrected Optical System, built in transmitted
contrast	halogen illumination stand
Microscope with	2. Eyepiece: Widefield paired eyepiece of 10X/20 Br. Foc.
Florescence	3. Stage: Object traverser & universal mounting frame
attachment (1)	4. Objectives: Plan Achromate, Long distance plan achromate(20x &40x)
	5. Fluorescence Attachment and universal sliding condenser
	6. Image Analysis Software: Advanced Image acquisition software
	Note- Microscope, Digital Camera and Software should be of same make.
Stereoscopic	1. Zoom Ratio: 8:1 with apochromatic stereo telescope system
zoom Microscope	2. Zoom Range: 1X-8X
with Florescence	3. Magnification: 10X-80X(with 1X objective and 10X eyepieces)
and Photographic	4. Eyepiece: Wide field 10X(F.No. 23mm)
attachment (1)	5. Analysis Software
	Note- Microscope, Digital Camera and Software should be of same make and Microscope
	should be up gradable for fluorescence,
Liquid	Should able to use for applications like DNA & Protein Labeling, Radioimmunoassay,
Scintillation	14CO2, H.Pylori Test, Wipe Tests, Radon in water, Luciferase Assays etc.
Counter(1)	Specification:-
	1. Detector- Photon Counting Photomultiplier tube
	2. Output; RS-232C to PC or thermal printer
	3. Dynamic range-200CPS-50000000CPS
	4. Counting time- 0.1 seconds to 99999 minutes
	Liquid Scintillation Counting-
	1. Efficiency-Up to 48% for 3H

The tender for the following instruments are required:-

	2. Max count rate-2000000CPM
	3. Samples: Microtubes, LSC vial or test tubes
	5. Samples. Microlubes, LSC via of lest lubes
CO2 Incubator (1)	1. Internal Volume-150ltrs + 170 ltrs
	2. Temp. range- ambient+ 3° C to 55° C with six sided heating , with control accuracy
	2. Temp. range anotent $5 \times 10.55 \times 10.13$ with six sided heating , with control accuracy of $\pm 0.1^{\circ}$ C
	3. CO2 control range-0.2 to 20% or better,
	 4. Should have HEPA filter on CO2 inlet
	5. Humidity control-95%rH or more. Recovery time for humidity loss during door
	opening for 30 seconds upto 95%rH should not be more then 30 minutes
	6. System should be supplied with heat resistant TCD sensor/\$RCO2 sensor
	7. Large viewing window with display system
	 Barge viewing window with display system having data storage for CO2, temperature etc.
	 9. System should be supplied with built-in automatic decontamination routine at 90°C
	and high humidity, where along with the inner chamber, all the accessories i.e. air
	circulation fan, shelves and its support, sensor etc should be decontaminated, FDA
	validation certified
	10. Alarm for indicating low water level
	11. Size:- External- 637x867x766mm, Internal- 470x607x530mm
	Interior should be made of Stainless steel with rounded corner for easy cleaning
ELISA READER	1. Spectral Range-400-750nm, Readout Range- 0-3.5Abs
with Washer (1)	 Spectral Range-40-750nni, Readout Range-6-5.5A05 Accuracy-+/-2%, not more than 0.008Abs
with washer (1)	3. Precision- $CV < 0.5\%$, not more than 0.008Abs
	4. Linearity: +/- 2% or 0.007 Abs
	5. Filters: 8 slot filter wheel with 3 filters
	 6. Half Band width of Filters:3-9nm
	 Reading Speed: Notr more than 6 seconds entire 96 well plate
	8. Shaking: Linear Shaking, 3 speeds
	 9. Display: 2x20 character alphanumeric LC display
	10. Optical System: Quartz Tungsten Halogen lamp
	11. Onboard software: Single/dual wavelength endpoint, single wavelength kinetic,
	two point measurements, Ranged, Greyscale, Threshold, point to point, Linear
	Regression, Cubic Spline, Cut off calculations.
	12. Onboard memory: minimum 64 assay protocols, retained blank & retained curve
	fits
	13. Window based software,
	14. Programming: Program Cards, 4-Wash Program Cards, 1- Programmable card
	15. Both Reader and washer should be IVD compliant
	Wash heads; 8 or 12 way Coaxial, Wash Volume: 50-750ul in 50ul increments,
	Residual Volume: <5ul per well
-86° C Deep	1. Capacity-484litrs
Freezer	2. Interior Dimension-670x480x1490mm, Exterior-1040x808x2130mm
Horizontal(1)	3. Air cooled refrigeration system and compressor
	4. Automatic voltage boost compensates for low voltage and brown out condition
	5. Solid state control system with adjustable temp. set point
	6. Digital temp. display, Push button set point display, Key operated main power switch
	7. Tepm. Safety alarm with battery backup and audible warning
	8. High capacity air cooled condenser with dual condenser fans, aerodynamically shaped
	fan blades, CFC free refrigerants
	9. Downfeed evaporator for most efficient refrigerant flow.
	10. Washable condenser filter,
High Pressure	1. The equipment should be used for Cell lysis (mammalian/plant/e-
Homogenizer(1)	coli/yeast/bacteria), Pro and Eukaryotic cells
	2. Maximum homogenizing pressure: 1500 bar
	3. Maximum flow rate: 165ml/min or 10L/hour.
	Maximum process volume: 20-25ml with SS low volume feeder

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Laminar Flow(4)	 Made out of best quality board & all exterior surfaces covered with laminated mic sheet,
	2. Work tables made of S.S. 316 table top,
	3. Complete with HEPA filters & Prefilters, Motor blower, Static pressure incline
	Manometer, Cock for Gas, Air or vacuum line,
	4. Front & side doors are made of Plexiglas transparent thick sheet duly framed
	5. Built-in UV tube work table is illuminated by fluorescent light,
	6. Front door can be kept full open/half open,
	7. Safety attachments of international standards.
	Working Area= 1800x600x600mm, Sitting capacity= 2.
	Size of HEPA=900x600x150mm x2 filters,
Spray Dryer(1)	1. 5Kg capacity single stage,
	2. Disc automizer pore size 3-4mm with product collect hopper
	3. Portable type with all supporting accessories
	Made of SS 316
Falling Film	1. 25Kg /hrs capacity
Evaporator(1)	2. Having the facility of circumlation evaporation
	3. Particle size 5 to 60% with all the accessories for heating
	Made of SS 316
Rising Film	1. Pumping and recycling facility
Evaporator(1)	2. 25Kg /hrs capacity
	3. Having the facility of circumlation evaporation
	4. Particle size 5 to 60% with all the accessories for heating
	Made of SS 316
Liquid Nitrogen	15 Ltrs for 24hrs and an internal storage capacity of 30ltrs
plant(1)	With helium compressor with adequate capacity for cooling helium compressor,
	Liquid Nitrogen generator, Air Compressor, water cooler of Nitrogen gas generator,
Orbital Shaker(3)	1. Having movement incorporating Triple Eccentric Pin with Counter Balance done,
	2. Drive should be permanent Magnet DC Motor with toothed belt,
	3. Temp. PID based microprocessor control for temp. control through key board with
	visual and audio alarm for temp. over/under shoot. Temp Sensor: PT 100,
	4. Universal tray to accommodate 25 Nos. of 250ml/16Nos. of 500ml/9Nos. of
	1000ml /4Nos.of 2000ml, 5 Shahing Fragmenese, 20.250PDM, Shahing Matian, Orkital
	5. Shaking Frequency:- 30-350RPM, Shaking Motion:- Orbital,
	 Shaking Deviation: +-2% of set value, diameter of Orbital Motion:-25mm, Universal Tray Size:420x420mm,
	8. Temp. Range: -5° to 80°C, Temp. Accuracy: $\pm 0.1 \text{ C}$ @ 30°C to 50°C range,
	8. Temp. Kange 5 to 80 C, Temp. Accuracy. ± 0.1 C (ω 50 C to 50 C range, RPM and Temp. Indication= Digital
	Ki wi and Temp. Indication– Digital

Director