



# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

(Established by Govt. of Punjab vide Punjab Act No 18 of 1998)

University Procurement & Facility Department

**E-TENDER NOTICE FOR INSTRUMENTS FOR MULTIDISCIPLINARY RESEARCH UNIT (MRU),  
GGSMCH, UNIVERSITY CENTRE OF EXCELLENCE IN RESEARCH (UCER)**

Tender Notification No:	To be generated automatically by the E-procurement portal of the Govt. of Punjab.
Nature of work :	e- tender notice for supply and proper installation of the instruments at MRU, GGSMCH, UCER, BFUHS, Faridkot
Cost of the tender document:-	<b>Rs. 2000/- (through online mode only)</b> <b>{Non refundable, under any circumstances}.</b>
Tender Processing fee:-	To be charged by Govt. of Punjab as per its norms. (Non- refundable).
EMD Amount:	<b>Rs. _____ (to be quoted as detailed in the tender)</b> <b>(as per quoted item/items by the firm)</b>  In the shape of online payment.  <i>{Refundable to the Non-successful bidders, without any type of interest or other charges}.</i>  <i>However, It will be converted in Performance security in case of successful tenderer and will be returned after successful completion of the contract period.</i>  <u>It should be clearly noted that no bidder will be allowed any type of exemption from the deposit of the EMD under any circumstances.</u>
Performance Security	<u>The Earnest Money Deposit deposited by the successful bidder will be converted against the performance security and will be returned after the completion of rate contract period.</u>
Date of start of downloading of tender documents:-	immediate from the website of the Punjab Government i.e. <a href="https://eproc.punjab.gov.in">https://eproc.punjab.gov.in</a>
Website for downloading of the tender document:-	From the above website  However, the details may also be obtained from the University website i.e. <a href="http://www.bfuhs.ac.in">www.bfuhs.ac.in</a>
Last date for downloading of the tender document:-	<b><u>28.01.2019 up to 12.30 pm</u></b>
Last date & Time for submission of the tender documents:-	<b><u>28.01.2019 up to 1.30 pm</u></b> <b><u>(through online mode only)</u></b>
Date of opening of the Tender documents (Technical Bids)	<b>By the next day from the last date of submission of tenders (by 5:00 p.m.)</b>  on the e- procurement portal of the Govt. of Punjab.  However the bidder or their authorized agents representative may attend the tender opening process at the University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot on the prescribed time and date.



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Date of Opening of the tender documents (Financial Bids)	<p><b>The opening date of financial bids of the technically qualified bidders will be informed on the university web site.</b></p> <p><b>on the e- procurement portal of the Govt. of Punjab.</b></p> <p>However the bidder or their authorized agents representative may attend the tender opening process at the University Procurement &amp; Facility Department, Baba Farid University of Health Sciences, Faridkot on the prescribed time and date.</p>		
Address for the submission :	<p>The Registrar,</p> <p>Baba Farid University of Health Sciences,</p> <p>Sadiq Road, Faridkot (Punjab) PIN-151203.</p>		
Who can be contacted for obtaining more information about the tender.	<b>Sr. No.</b>	<b>Nature of Information</b>	<b>Name of the concerned Official with contact No:-</b>
	1	About the tenders and allied information:-	<p>Incharge,</p> <p>University Procurement &amp; Facility Department, Baba Farid University of Health Sciences, Faridkot.</p> <p>Phone:- 01639-250267, 256232, 256236,</p> <p>Email id:- <a href="mailto:upfdbfuhs@gmail.com">upfdbfuhs@gmail.com</a></p> <p>(on all working days from 9.00 a.m. to 5.00 p.m.)</p>



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## **SCOPE OF SUPPLY**

E-tenders are invited from **Manufacturers / Sole agent/ Authorized distributors/ Authoeroized dealers for** supply and installation of the following Instruments at the **MRU, GGSMCH, UCER, BFUHS, Faridkot, Faridkot:**

### **List of Instruments along with technical specification**

S.No.	Instruments	Earnest Money to be Submitted (in Rs.)
1.	High Performance Liquid Chromatography (HPLC)	90,000.00
2.	Atomic Absorption Spectrophotometer (AAS)	1,20,000.00
3.	PCR	18,000.00
4.	Water bath	900.00
5.	Gel Documentation System	45,000.00
6.	Electrophoresis	45,000.00
7.	Autoclave	12,000.00
8.	pH meter	6000.00
9.	Shaker incubator	6000.00
10.	Hot air oven	2250.00
11.	Microcentrifuge	6000.00
12.	Colony counter	1500.00
13.	Co <sub>2</sub> incubator	21,000.00
14.	Vacuum concentrator	18,000.00
15.	Centrifuge for cell culture (Refrigerated Table Top Centrifuge)	24,000.00
16.	Multichannel electronic micropipette	4500.00
17.	Ultrasonicator	4500.00
18.	2D Gradient PCR	21,000.00
19.	Gas chromatography–mass spectrometry (GC-MS)	1,20,000.00
20.	Inverted Fluorescent Microscope	60,000.00



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## **1. Specifications for High Performance Liquid Chromatography (HPLC)**

### **HPLC Pump Module**

- Maximum operating pressure up to 5,000 psi or more
- Operating flow rate range 0.2 to 10.0 ml/min or better
- System must have Integrated Leak sensors
- Integral, active, plunger seal wash

### **Solvent Module**

- Should be operated in Gradient mode with quaternary pump
- System must have integrated vacuum degassing facility
- Flow accuracy  $\pm 1.5\%$  or better
- Compositional range 0 to 100%, solvent A to D
- Composition accuracy  $\pm 0.7\%$  or better
- Composition precision  $\leq 0.2\%$  variation or better

### **Injector and Auto sampler**

- Compatible with analytical column
- Injection Volume 0.1 $\mu$ L to 1000 $\mu$ L of sample or better
- Auto sampler vial capacity : 75 vials or more for 2mL
- Auto sampler cooling/heating range : 4°C to 40°C or better
- Programmable needle wash and flush followed or better

### **Column Oven**

- Operating temperature range 20°C to 60°C or better
- Temperature Accuracy  $\pm 1^\circ\text{C}$  over entire range or better

### **Photodiode array detector**

- Wavelength range 190-790nm or better
- Noise level : <8 microAU or better
- PDA software to suit to 3 dimensional peak purity algorithm
- Wavelength accuracy :  $\pm 0.5\text{nm}$  or better
- Light source warranty: Deuterium 1000hr lamp
- Scanning and detection at variable/fixed wavelength or better

### **UV detector**

- Wavelength range : 190-700nm or better
- Wavelength accuracy :  $\leq \pm 1\text{nm}$  or better
- Wavelength Precision :  $\leq \pm 1\text{nm}$  or better
- Heated thermostat sensor in glass envelope for leak detection or better

### **Software**

- Respective Company or compatible with instrument
- Single point control PC based recent software for control, acquisition, processing and reporting of HPLC data



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## **Standard Accessories**

- Should be supplied with all required as mentioned below:
  - i) Latest branded with i5 Processor , 500GB HDD, 4 GB RAM, 17” LED with UPS along with B/W Laser Printer
  - ii) Compatible online UPS for the system with 1 hr back-up
  - iii) Columns
    - C18 Column, 250 mm X 4.6 mm X 5  $\mu$ m- 01
    - C18 Column, 150 mm X 4.6 mm X 5  $\mu$ m- 01
    - C8 Column, 250 mm X 4.6 mm X 5  $\mu$ m- 01
    - C8 Column, 150 mm X 4.6 mm X 5  $\mu$ m- 01
  - iv) Oil free vacuum pump for sample and mobile phase filtration with filter funnel
  - v) Bottle tray with
    - 2.5 Liter volume – 05 Bottles
    - 1.0 Liter volume – 05 Bottles
    - 0.5 Liter volume – 05 Bottles
- Two year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic/sheet cover for the instrument



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## **2. Specifications for Atomic Absorption Spectrophotometer**

Fully automated PC controlled integrated double beam Atomic Absorption Spectrophotometer system along with deuterium & zeeman background correction.

### **Operation**

- Permanently aligned dual flame and graphite atomizer having capability to use both flame and furnace mode simultaneously from one PC control.

### **Optics and background**

- Double beam optics wavelength range with 190-900 nm or better. 8 lamp holder with auto alignment turret Echelle monochromator/holographic/ having holographic blazed diffraction grating (minimum 1800 lines/mm) or equivalent.
- The system should have spectral band width in range 0.2 to 1.0 nm or better with automatic slit selection.

### **Flame system**

- The gas control box should be fully automatic with automatic ignition.
- The burner height should be automatically optimized and there should be automatic controls for the rotational and transverse position of the burner.
- Universal burner suitable for air-acetylene and nitrous oxide-acetylene flame types supplied as standard.
- The instrument should have inert spray chamber and adjustable high precision nebulizer.
- Oxidant and fuel rate monitoring and control should be fully automated.

### **Graphite Furnace System**

- Graphite furnace atomizer temperature up to 2500°C with programmable software control or better.
- Furnace must have furnace auto sampler with 70 or more sample position.
- The instrument should be supplied with 500 nos. of sample tubes. In built camera for monitoring of sample injection.

### **Background correction**

- The system should have deuterium & zeeman background correction in graphite furnace and deuterium background correction in flame mode or better.

### **Detection**

- The system should be capable enough for the detection of trace elements upto ppb levels.
- The system should be provided with automated mercury hydride system/ automated vapor generation system compatible for flame.
- Detector should be wide range photomultiplier tubes (PMT) or Solid state detector or better.

### **Safety System**

- Safety interlocks for burner, liquid trap, pressure relief bung, flame shield, flame operation, mains power, gas pressure, safety reservoir, spray chamber should be there.
- The Instrument should be with suitable software to control the complete.
- The system should be supplied with coded hollow cathode lamps for detection of minimum 24 elements (which includes As, Cd, Hg, Pb, Co, Ni, V, Ag, Au, Ir, Os, Pd, Pt, Rh, Ru, Se, Tl, Ba, Cr, Cu, Li, Mo, Sb and Sn).



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- After successful installation vendor should be demonstrated the instrument performance by performing Installation qualification and operational qualification of the instrument.

## **Microwave Digestion System**

- Microwave output power should be not less than 1500W.
- Power control should be un-pulsed for entire microwave range, adjustable in 1% increments.
- Overpressure gas venting system should be there for the safety.
- MDS should be accommodated minimum 16 or more digestion vessels.
- Sample vessel volume should be 50 to 100mL.
- Maximum vessel test working pressure range should be more than 40 Bars.
- Maximum operating temperature should be ambient to 240°C or better.

## **Accessories**

- Should be supplied with all required standard accessories as mentioned below:
  - a) Fume Hood
  - b) Suitable UPS with half an hour back up for entire system
  - c) Branded PC with i5 processor, 1TB HDD, 4 GB Ram DVD writer, 17" LED, laser jet printer with suitable antivirus software at least 3 yr validity.
  - d) Air acetylene (2 No.), N<sub>2</sub>O (1 No.) and argon cylinder (1 No.) with regulator with pre heater and oil free compressor
  - e) Chiller for graphite furnace
  - f) Graphite tubes 100 nos.
  - g) Standard solutions for the desired elements for all quoted elements (which includes As, Cd, Hg, Pb, Co, Ni, V, Ag, Au, Ir, Os, Pd, Pt, Rh, Ru, Se, Tl, Ba, Cr, Cu, Li, Mo, Sb and Sn).
  - h) Vessels, discs and spacers
  - i) The vendor should be provided users manuals and relevant documents related to instrument
- Two year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
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## **3. Specifications for PCR**

- Universal dual/single Block for 96 x 0.2ml PCR Tube, 60 x 0.5 ml PCR Tube, One 8x12 PCR plate
- Gradient PCR, capable of testing 12 different temperature simultaneously across a gradient range of 1-20° C
- Heating and cooling via peltier technology.
- Should have concept allowing use of all types of consumables with automatic height adjustment of lid.
- Triple Circuit Technology to ensure precise control of temperature with a range of 4 °C to 99°C
- Block Homogeneity: 20° C to 72° C:  $\leq \pm 0.3^\circ \text{C}$ , 95° C:  $\leq \pm 0.4^\circ \text{C}$
- Good temperature control speed of at least 3 °C/s for quick heating and 2 °C/s for quick cooling
- Flexi Lid technology with lid temperature range of 37°C to 110°C
- Should have administrator and user login with or without PIN
- Should have preprogrammed template for easy selection for 2 step PCR, 3 Step PCR, Gradient PCR, Long Range PCR, Low volume PCR, RT, RT-PCR, Incubation, Cycle sequencing, Touch down PCR, Hot Start PCR, Hot Start PCR manual, Large volume PCR, Nested cycles, reduced ramping, simulate Mastercycler.
- Time or Temperature increment with cycles in PCR program Adjustable ramp rate from 0.1° C to 3.0° C to meet critical amplification conditions
- Customized programming allows a maximum of 20 steps and 99 cycles
- Auto Restart facility with user defined time interval when power fails and resumes Instrument status indicates the step, cycle and remaining runtime during the run
- Runtime display shows remaining time in larger font for better view from distance System memory of more than 100 user folders and more than 500 programs
- Should have at least two USB ports for peripheral compatibility (for Protocol transfer, Self-test, USB, printer / mouse)
- Log book function for error messages and new calibration
- E-mail Notification Power save Standby function
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- Online UPS 100-240V (2 hr Backup)
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
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## **4. Specifications for Water Bath**

- Should be high grade Stainless Steel tank as per GMP construction
- Should have a bath capacity of 20 liters or more
- Tank size of approximate 50 x 30 x 20 cm with bath opening of 39x30 cm or better
- Should be provided with stirring which can be achieved by continuously rated self cooling motor with SS shaft & propeller of anticorrosive material.
- Should have TEMPERATURE Range: Ambient to 99°C and Temperature accuracy:  $\pm 0.1^{\circ}\text{C}$  or better
- Should have Top mounted controller button panel for easy setting and access
- Water bath should have temperature controller with facility to adjust timer & temperature by user.
- Should be provided with low level water alarm, safety shut down audible/visual alarm, independent over-temperature self- resetting safety cut-off with alarm
- Should be supplied with suitable accessories height adjustment for smaller flasks/ glasswares.
- Should be CE certified.
- Should have operating voltage: 230 V AC, 50HZ
- Tank design for easy cleaning and draining
- Steel holder for tubes (1.5/2 ml, 5ml, 15 ml) and Flasks (50, 100 & 250 ml)
- Comprehensive warranty for two years
- After Sale, Service should be available promptly
- Calibration reports with NABL traceability.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
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- 2 year warranty and 2 years free AMC
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## **5. Specifications for Gel Documentation System**

- Fully automated high resolution CCD technology, chemiluminiscent documentation system.
- Should be provided with true 16-bit peltier cooled 8 megapixels or more CCD true native camera cooled to -25°C absolute or better.
- Cooling down time less than 10 minutes.
- Auto exposure and autofocus.
- In built control of all system operations including image capture, camera exposure, lens setting, dark room, light and filter control.
- Should have fully light proof epoxy painted metallic body microprocessor controlled darkroom.
- Should be configured with LED EPI white, EPI blue, red, green and infrared.
- Should be provided with a sensor that may detect the four sample heights (for blot), one each for DNA/RNA and protein/colony automatically.
- Should be supplied with Computer (with i5 processor, 1TB HDD, 4GB RAM, CD-Read/Write, 17" TFT/LED Monitor, Keyboard, Mouse), with Suitable latest branded UPS along with thermal printer.
- Software should be provided with multi user licence for analysis.
- Should be provided with stand along software for enhancement, editing, annotation, archiving and analysis.
- Instrument should be provided with image viewing area not less than 25x30 cm.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic sheet cover for the instrument



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## **6. Specifications for Electrophoresis**

### **ELECTROPHORESIS (HORIZONTAL)**

- Should be comprised of UV transparent gel tray with an integrated fluorescent ruler and safety lid with three different sizes maximum of 15X15 cm.
- Should have a sample capacity run of minimum 30 samples.
- Should be provided with unique anti-leakage design for gel casting system along with dam claws so that no taping is required during casting.
- Should be supplied with set of fixed/adjustable/preparative combs of three different sizes standard for all the electrophoresis
- Should be provided with buffer tank, safety lids with cables and labelling bubbles.
- Should be provided with removable electrodes for ease of cleaning.
- Should be equipped with multiple comb slots so as to provide users with the facility of multiple gel sizes along with thickness of 0.75, 1, & 1.5 mm
- The recommended buffer volume should be 1000ml to the maximum & minimum of 550 ml for variable electrophoresis units.

### **ELECTROPHORESIS (VERTICAL)**

- Should be able to run 1-4 pre-cast and hand cast mini gel in less than 1 hour.
- Should be provided with buffer volume of approximately 700-1000ml.
- Dimensions of gel should be of approximate size of 8x10 cm.
- Should be provided with thermoplastic gaskets to form a tight seal with glass plate to ensure leakage free casting.
- Should be provided with side by side casting stand which allows accessing both gels simultaneously.
- Should be provided with spacer plate of approximate size of 10x8 cm.

### **Blotting Apparatus**

Should be equipped with electrophoresis blotting unit, with gel size of 110x75 mm (WxH).

System should be provided with blotter module 2 cassettes simultaneous

Should be provided with a feature to transfers two gels simultaneously and apply to protein SDS-PAGE and Agarose gels

Should have high resolution gel transfer apparatus, which includes one electrophoresis tank, one cassette holder and two sandwich blotting cassettes and one pair electrode

Should be provided with standard accessories like buffer tank, electrode module fiber pad and lid with power cables, gel holder cassettes.

### **Power supply**

- Power Supply suitable for vertical and horizontal gel electrophoresis, and blotting.
- Should be provided with a programmable output range of 5-300 V adjustable in 1V step, with a maximum of 75W.
- Should have a timer ranging from 1 minute- 99hrs59 minutes.
- Should come with three digit LED display indicating voltage and time clearly.
- Should have 4 pair recessed output terminal in parallel.
- Should be provided with pause/resume functions.



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- Should be provided with CE regulatory compliance.
- Should include safety feature such as sudden load change detection, overload/shortcircuit detection and overvoltage detection.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
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## **7. Specifications for Autoclave**

- Should be provided with the following Size and capacity as mentioned below
  1. Chamber volume: 75 Ltr, Effective Vol: 65 Ltrs Effective size: 350X680 mm
  2. Chamber volume: 100 Ltr, Effective Vol: 90 Ltrs Effective size: 400X720 mm
  3. Chamber volume: 210 Ltr, Effective Vol: 180 Ltrs Effective size: 550X7600 mm
- Should be provided with an adjustable operation of saturated steam under pressure of 15 to 22 PSI
- Should be provided with sturdy double wall construction with boiler made of stainless steel at least 16 gauge sheet.
- Should be provided with heat resistant silicon door gasket that can withstand upto 140 Deg. C.
- Should be provided with a stand which should be made of Mild steel with anticorrosion paint.
- Should be provided with lid locking facility with radial locking preferably single hand opening
- Should be provided with safety feature that includes door locking facility, low water protection system, Pressure cut off facility and all other necessary safety features.
- Should be provided with immersion type heating element
- Should be fitted with suitable PLC (Microprocessor) for fully automatic cycle operation instead of manual operating valve with digital displays of Chamber Pressure, temperature etc
- Should be provided with an inbuilt feature of elimination of steam exhaust in room & should be supplied with external drain bottle with condenser
- Should be protected from accidental spills of electronic and mechanical components should.
- Should have automatic restart after power interruption with non volatile memory.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
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## **8. Specifications for pH meter**

- Should provide a working pH Range between 0 to 16 or more.
- Should have Up to 3 Calibration points which further can be edited
- Should be provided with Accuracy of  $\pm 0.02$  pH
- Should have a resolution of 0.01 pH or more
- Operating Temp: Range: should be 0 to 50 °C
- Should have automated Temperature compensation
- Should supply Tri-combination pH/ATC electrode
- Should supply at least 3 electrodes+ Standard buffer solution (pH 4.0, 7.0, 10.01 x 50ml for each bottle) + standard electrode holder/arm for smooth movement +Ac /DC Adaptor.
- Should have digital display with 0.001 pH unit readability
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
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## **9. Specifications of Shaking Incubator**

- Should be double wall with inside made of Stainless Steel with Glass view window solid door & outside made of MS with epoxy powder coating
- Temperature range should be 5°C to 60°C with an accuracy of  $\pm 0.1^\circ\text{C}$ .
- Must be microprocessor controlled with large and easy to read LCD display screen minimum 4" for display of shaking speed, running time, alarm conditions & temperature
- Capacity should be 215 Liters
- Should be supplied with Universal Platform having capacity to holds assortment of various size of flask sizes upto 2-5 Ltrs and test tube racks. System should be supplied with 250 ml clamps (5 Nos.), 500 ml clamps (05 Nos.), 1000 ml (02 Nos.) and 2000 ml (01-02Nos)
- Should be supplied with compatible stabilizer for smooth operation
- Shaking speed should be 30-250 rpm with controlled accuracy of  $\pm 2$  rpm and shaking amplitude of 25mm
- Should be provided with electronically controlled shaking mechanism to maintain uniform conditions inside chamber
- Should be provided with brushless induction motor practically maintenance free noise free
- Should be provided with audio visual alarm in case of power failure and resumption recorded with data and time, audio alarm in case of door open for over one minute & temperature variation of  $\pm 2^\circ\text{C}$ , high temperature safety cut off & alarms for high / low set temperature, settable High/low alarm points
- Should be provided with timer of up to 99.9 Hrs.
- Should be provided with the PC communication through data acquisition software
- Should be provided with additional non shaking tray to store samples
- Should be provided with insulation CFC free polyurethane foam minimum of 70mm for body and door
- Should be protected from accidental spills of electronic and mechanical components should.
- Should have automatic restart after power interruption with non volatile memory.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- Online UPS 100-240V (2 hr Backup)
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic sheet cover for the instrument



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**University Procurement & Facility Department**

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## **10. Specification for Hot air Oven**

- Should be fully automatic provided with inbuilt digital display (LED / LCD) for operations
- Should be provided with different size and capacity. The chamber volume should be 50-150 ltr with suitable inner dimension. (More than one model can be quoted with respect to size and capacity, if available).
- Should be provided with double walled chamber -Inner made of stainless steel SS 304 grade and heat cured coated outer surface.
- Should be provided with corrosive resistant material throughout the body
- Should have stainless steel wire mesh shelves preferably 2 or more, with adjustable height in steps
- Should be operated on 230V, 50Hz single phase AC supply
- Should be provided with Oven Temperature range ambient +10°C to 220°C or better with control accuracy  $\pm 0.5^{\circ}\text{C}$
- Should be provided with digital temperature controller with auto start upon reaching set temperature
- Should be provided with indicators of Auto-mode, Sensor failure, Alarm & Heating Alarms and indicators during overshoot or undershoot and in case the door is not properly shut
- Should have a feature to provide uniformity, efficient heating & forced convection
- Should be provided with blower for internal circulation for better uniformity.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- Online UPS 100-240V (2 hr Backup)
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## **11. Specifications of Microcentrifuge**

- Maximum Speed should be atleast 15,000 rpm or more
- Centrifuge should be supplied with PCR rotor for (4X8 tube PCR Strips) 32X0.2ml tubes along with 12X2.0 rotor
- Should be provided with inbuilt digital display (LED / LCD) for operations
- Should be provided with Capacity of 12x 2.0ml, 4x8 tubes PCR Strips
- Should be provided with Time Control of 30s to 99min. with continuous mode
- Should have feature of safety lid locking
- Should be provided with Noise level of less than 65 Db
- Should have the feature of automatic door release at completion
- Power supply: 220/50 (V/Hz) and power requirement should be 110VA
- Weight of the machine should not be more than 5kg
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic sheet cover for the instrument



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## **12. Specifications for Colony Counter**

- Should be fully stainless steel GMP Model only
- Should be provided with auto marker pen.
- Should be provided with Wolffhugel Grid Glass Plate with focusing facility
- Should have Circular tube for excellent all round illumination
- Should be provided with 110 mm Magnifying Lens or better.
- Should have Maximum Count Number up to 9999
- Should be supplied with Universal Stainless Steel Platform
- Should be supplied with a Supply voltage of 230V AC, 50Hz
- 40 memory locations with data storage even after the power switch off.
- Four Digit resettable digital counter with audio beep at every count.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
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- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
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- Perspex/acrylic sheet cover for the instrument



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## **13. Specifications for CO<sub>2</sub> incubator**

- Working volume: Approx. 150-200 litres.
- CO<sub>2</sub> Control range: 0 to 20%
- CO<sub>2</sub> Control accuracy: +0.1%
- Temperature control range: Ambient + 3 to 55° C.
- Should be air-jacketed with heat resistant TCD sensor.
- System should have option for multi-gas operation (for three different gases in same equipment to give an option to create hypo and hyperoxic condition).
- System should have single tight inner doors.
- System should incorporate exclusive touch screen with event logging details.
- System should alarm to indicate low water level.
- Interior should be made up of Stainless steel and should not have nuts or bolts for shelf supports.
- System should have features to ensure fast humidity recovery.
- System should have built in decontamination feature.
- System must include an independent over temperature function with independent temperature sensor to protect valuable culture from potential damage in event of unexpected failure in primary temperature control system.
- Incubator must have a fully automatic start routine function.
- Incubator must offer direct access port on the interior incubator door to enable comparative CO<sub>2</sub> measurement by external device.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic sheet cover for the instrument
- CO<sub>2</sub> Cylinder and Regulator with stabilizer should be quoted.



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## **14. Specifications for Vacuum Concentrator**

- System should have Centrifugal Vacuum Concentrator supporting Centrifugation and Desiccator function
- Should have Vacuum Concentrator facility for concentrating DNA/RNA, nucleotides, Protein and other Liquid or wet samples
- Instrument and pump should be provided with maximal resistance for organic solvents like Acetonitrile, DMSO, chloroform etc.
- System should be provided with three operational modes for Aqueous, Alcohol and Highly Volatile solvents
- System should possess four temperature selections (room temperature, 30 °C, 45° C, and 60 °C) to allow safe and efficient concentration of biological samples.
- System should support Run time: 1 min to 9:59 hrs in increments of 1 minute or infinite
- Instrument should be provided with 40-60 x 2ml, 6-8 x 15ml and 6-8 x 50ml tubes rotor
- Centrifuge should have a rotational Speed of more than 1,000 rpm
- System should support multiple lab ware formats (0.2 ml, 0.5ml, 1.5ml, 2 ml, 15ml conical tubes, 50 ml conical tubes, 96 well PCR plates, MTP and Deep well plates) with different rotors.
- Rotors and adapters must be autoclavable
- Max. Vacuum: < 20 hPa (< 20 mbar)
- Power Consumption should not more than 350W
- Instrument should be European CE marked.
- System should be provided/suitable with 3KVA servo stabilizer.
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
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- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic/ sheet cover for the instrument



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## **15. Specification for Centrifuge for Cell Culture (Refrigerated Table Top Centrifuge)**

- Table top centrifuge for high volume applications with maximum Capacity of 3 litter
- Should be provided with a temperature Range: -9 °C to +40 °C or better
- Should be provided with rotational Speed: 14,000 rpm or more better
- Should be provided with centrifugal Force: 20,000 x g or more
- Should be provided with rotor imbalance indicator
- Should be provided with automatic rotor recognition with speed limitation for maximum safety
- Should be provided with 30 program memory or better
- Should be provided with ability to spin 15 ml and 50 ml falcon tubes and U-shaped bottom tubes at 11000 rpm and 14000g with fixed angle rotor
- Should be provided with capacity of spinning 16 Microtiter Plates, 4 Deepwell Plates, Filtration Plate Kit and PCR Plates.
- Should be provided with adaptor for volumes from 1.5 ml to 85 ml in the Fixed angle rotor. (Such as 2ml, 7ml, 15 ml , 18ml,20ml, 30ml,50ml)
- Should be provided with Swing out rotor that can accommodate 1.5/2ml, 15 ml falcon & 50mL Falcon and up to 4x750mL tubes for high volume centrifugation.
- Should be provided with adaptors available from 1.5 ml tubes to 750ml bottles in the swing out rotor
- Should be provided with different rotors like Swing Metallic Bucket autoclavable rotor with 3200g and 4000rpm or more, 80 or more number of 1.5/2ml tubes, 100 or more number of 2.6-5ml tubes, 45 or more number of 15ml tubes, 20 or more number of 50ml tubes, 4 number of 500ml bottles , 16 or more number of MTP/DWP, 4 number of Cell Culture flask
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- Online UPS 100-240V (2 hr Backup)
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions



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## **16. Multichannel electronic micropipette, Adjustable Volume**

- Ergonomic display angle
- Multifunction Rocker and AC Charger
- 12-place multichannel electronic pipette has a volume range of 5-100ul, 15-300ul, 50-1200ul
- Motorized and electronically controlled piston-stroke pipettor.
- Color-coded multi-function rocker can be pressed up to aspirate or down to dispense liquid volumes according to the air-displacement principle.
- Provides the user with multiple modes of dispensing including aspirating, diluting, sequential dispensing and reverse pipetting.
- History function Automatically saves the last 10 sets of parameters
- The On/Off switch turns off the pipette during longer periods of inactivity.
- Programmable: One-time programming of sequences for simple handling of complex processes. Individual fixed-volume saving setting also available for quick working with kits.
- Pipette includes embedded RFID chip which stores all relevant data and is designed for use with the TrackIT Reader & Software. Additional features include: Service display reminder, Individual speed setting and password protection.
- Warranty 1 year
- CE, IVD Certified.
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic sheet cover for the instrument



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## **17. Specifications for Ultra Sonicator**

- Should be programmable
- Sonicator should have full amplitude control to regulate the energy delivered.
- Should be provided with Auto tuning to compensate frequency changes in converter/Tips
- Should be provided with a safety measures regarding overload protection.
- Should be provided with display screen to display operating parameters.
- Should be provided with at least 15 litres or more; internal dimensions of tank 300\*300\*200mm
- Should have weight 7 Kgs or more
- Instrument should be provided with a suitable voltage stabilizer
- Should provide a power rating between 500-800 W
- Frequency should be more than 20 KHz
- Drain duct diameter of the duct should be 3/8" Inch
- Should be Completed with Standard Accessories like internal Basket having suitable Basket mesh and Basket loading
- Should be provided from reputed manufacturer with ISO certification
- IQ, OQ and PQ should be provided at the time of installation.
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
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## **18. Specifications for 2-D Gradient PCR**

- Touch screen system , dual/single Block for 96 x 0.2ml PCR Tube, 60 x 0.5 ml PCR Tube, One 8x12 PCR plate.
- Two-dimensional Gradient PCR, capable of testing 12 different temperatures simultaneously across as well as across 8 rows a gradient range of 1-30° C in column and row as well.
- Heating and cooling via peltier technology.
- Should be provided with ensured ramp rates in gradient and normal operations.
- Should have concept allowing use of all types of consumables with automatic height adjustment of lid.
- Triple Circuit Technology to ensure precise control of temperature with a range of 4 °C to 99°C
- Block Homogeneity: 20° C to 72° C:  $\leq \pm 0.3^{\circ} \text{C}$ , 95° C:  $\leq \pm 0.4^{\circ} \text{C}$
- Good temperature control speed of at least 3 °C/s for quick heating and 2 °C/s for quick cooling Heating ramp rate: 10 °C/s Cooling ramp rate: 5 °C/s
- Flexi Lid technology with lid temperature range of 37°C to 110°C
- Should have administrator and user login with or without PIN
- Should have preprogrammed template for easy selection for 2 step PCR, 3 Step PCR, Gradient PCR, Long Range PCR, Low volume PCR, RT, RT-PCR, Incubation, Cycle sequencing, Touch down PCR, Hot Start PCR, Hot Start PCR manual, Large volume PCR, Nested cycles, reduced ramping, simulate Mastercycler.
- Time or Temperature increment with cycles in PCR program Adjustable ramp rate from 0.1° C to 3.0° C to meet critical amplification conditions
- Auto Restart facility with user defined time interval when power fails and resumes Instrument status indicates the step, cycle and remaining runtime during the run
- Runtime display shows remaining time in larger font for better view from distance System memory of more than 100 user folders and more than 500 programs
- Should have at least two USB ports for peripheral compatibility (for Protocol transfer, Self-test, USB, printer / mouse)
- Log book function for error messages and new calibration
- E-mail Notification Power save Standby function
- Instrument should be European CE Certified.
- IQ, OQ and PQ should be provided at the time of installation.
- Online UPS 100-240V (2 hr Backup)
- 2 year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic sheet cover for the instrument





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## **19. Specifications for Gas chromatography–mass spectrometry (GC-MS)**

### **General Features of GC**

- Fully automated with programmable control (digital control) for injector, detector and purge gas.
- Instrument should be compatible to computer and software.
- All parameters should be stored as a part of method for better analysis reproducibility
- System must have touch screen user interface for easy instrument operation

### **Gas Flow control**

- Must come standard with programmable control
- Digital Control for setting column flow with pressure, flow and linear velocity.

### **Inlet configuration and usability**

- Injectors should be controlled by EPC/PPC/AFC.
- Removable glass liner for trapping non-volatile residues.

### **Front Injector for capillary column**

- Operating Temperature range 40°C to 400°C in 1°C set point increments or better
- It should be with split/splitless facility
- PPC pneumatics include automatic control of split vent by split flow or split ratio

### **Back injector for capillary column**

- It should be with split/splitless facility
- Operating Temperature range 40 °C to 450 °C in 1 °C increments or better
- Heating rate of 1°C/min to 200°C/min or better
- Two-ramps temperature program or better
- Large-volume injection of up to 150 µL or better
- PPC pneumatics include automatic control of split vent by split flow or split ratio

### **GC Oven Characteristics**

- All temperature and time functions should be micro-processor controlled and displayed on the screen, column over-heat protection, should be settable up to 450°C, set point resolution must be at least 1°C and cool down time from 450°C to 50°C is less than 4.0 min or better
- The oven should have excellent temperature control and fast cool down system.
- Oven must accommodate upto two 60m × 0.53 mm id capillary columns.
- Maximum achievable temperature ramp rate should be 120 °C/min or more
- Temperature ramps should be 8 or more.

Time settings: It should be 1 min increments for values 0 to 998 minutes or wider

### **Autosampler**

- Inbuilt autosampler with sample vial capacity 50 or more
- Vial size - 2ml
- Waste and wash vial size - 4 ml
- Sampling volume - Capable to inject from 0.1 µl to 50 µl or more

Must be capable to inject in both the injector ports without any physical or manual adjustment.

### **Head Space Autosampler**

- Vial Capacity: 30 or better
- Auto Sampler incubation Temperature: 50-200 deg. C in 1 deg. C steps or better.
- Auto Sampler Syringe temperature: 50-150 deg. C in 1 deg. C steps or better.



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## **Detector**

### **Mass Spectrometer (MS):**

- Must have EI (Electronic ionization) standard and CI (Chemical Ionization) with upgradable facility
- Mass number range:  $m/z$  1.0 to 1050 amu or better
- Scan rate upto 12,000 amu/sec or better
- EI Sensitivity in scan mode must 800:1 or more for 1 pg octafluoronaphthalene (OFN)
- PCI Sensitivity in scan mode must 500:1 or more for 100 pg Benzophenone
- NCI Sensitivity in scan mode must 500:1 or more for 1 pg octafluoronaphthalene (OFN)
- MS must have at least unit mass resolution.
- MS must have a linear dynamic range of at least  $10^6$ .
- Source operating temperature must be settable from 50 °C to 300 °C or more
- GC Transfer line must have independent temperature control over the temp range 50 °C to 350 °C
- Quadrupole must be metallic robust enough to allow cleaning of any contaminants.
- Pumping system must come standard with at least 250 L/sec (nitrogen) air-cooled automatic pump with the option for liquid cooling or better
- Maximum EI voltage range up to 100EV or better

### **Flame Ionization Detector**

- Operating temperature: 100 °C to 450 °C in 1 °C
- Minimum detectable quantity:  $< 3 \times 10^{-12}$  g C/sec

### **Electron Capture Detector**

- **Source:** 15 mCi  $^{63}\text{Ni}$
- **Makeup gas:** Ar/CH<sub>4</sub> or N<sub>2</sub>
- **Operating temperature:** 100 °C to 400 °C in 1 °C increments
- **Minimum detectable quantity**  $< 0.05$  pg perchloroethylene with argon/methane or nitrogen

### **Software**

- Software performing data analyses at least as per DIN/ISO/US-EPA, calibration, blank correction, data import, export, handling and reporting, quality control protocols, computer based training
- License copy of Software should be supplied along with pre-loaded on PC and GCMS system.

### **NIST Library with original CD and documents should be supplied with instrument.**

- Two year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic/sheet cover for the instrument



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## Consumables

- 5ul Manual liquid syringe : 10
- Septa LB2 Thermogreen 11 mm Qty- 50

## Front Injector:

- Silanized Glass Wool
- Liner-9000 SSTPI 2 mm Quartz
- Nut-Union Male Extend 1/16 in. Qty-2
- Graphite Ferrule- 1/16 in. x 0.5 mm Qty: 10
- Graphite Ferrule- 1/16 in. x 0.8 mm Qty: 10
- Wafer-Ceramic Cutter Qty: 10
- Viton O-Ring Kit- SSTPI Qty: 10

## Back Injector:

FERRULE - X90 0.4mm I.D. GVF qty 10  
FERRULE - X90 0.5mm I.D. GVF qty 10  
FERRULE - X90 0.8mm I.D. GVF qty 10  
LINER- GLASS WOOL QTY 5  
SEPTA LB2 THERMOGREEN 11MM QTY 1

## Autosampler:

- Syringe-5.0  $\mu$ L x 0.63 mm o.d. Qty- 2
- Crimper 11 mm Qty -1
- Decapper- 11 mm Qty -1
- Crimp Vials- Clear 2 mL 11 mm Qty of 200
- Septa-Blue Crimp Caps 11 mm Qty. of 200

## Head Space:

- 20 mm Hand Crimper
- 20 mL Clear Glass Crimp Top Vials Qty of 100
- PTFE/Silicone (white) Septa with Aluminum Crimp Caps Qty of 100
- Needle Seal Assemblies quantity 2 required
- O-Rings pack of 10
- Manual Hand Decapper - 20 mm

## MS:

- EI Filament – Qty 2
- Aluminum Oxide Powder (3 oz)
- Graphite/Vespel Ferrules, 1/16 inch Qty of 10
- Graphite/Vespel Ferrules, 1/16 inch Qty of 10

## FID Detector:

- Detector Adapter 1/8 in. to 1/16 in

## Columns:

5ms column with dimensions 30m x 0.25 x 0.25 Qty of 2  
624ms column with dimensions 30m x 0.25 x 0.25 Qty of 2



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## **20. Specifications for Inverted Fluorescent Microscope**

**1. Microscope Body:** Inverted microscope with infinity corrected system. Microscope base body should have provision/ upgradable for attaching two digital-scientific microscopic camera. Microscope should have intermediate optical magnification switch of 1.0x to 1.5x or more. Quoted microscope system should be upgradable to DIC feature for live cell imaging and other research requirements in future. Should have three way light distribution i.e. eyepiece: Camera: 20:80.

- Should be 12V 100W Halogen illumination.
- Condenser should be universal long working condenser for phase/bright field.
- Nosepiece should be at least Sextuple revolving nosepiece to accommodate six objectives at time
- Eye piece 10x (F. O V 22 mm), Should have dioptre adjustment facility on both eyes.
- Rectangular XY Mechanical Stage with provision to hold Petri plate, Terasaki Plates as well as slides.

**2. Objectives:** Long working distance objectives with specialized phase contract, Bright field and Fluorescence.

- Achromat 4x (N.A. 0.10, W.D. 18.5mm), for BF
- Achromat 10x (N.A. 0.30, W.D. 10 mm), for BF, Phase contrast and fluorescence.
- Achromat 20x (N.A. 0.45, W.D. 6.6mm), for BF, Phase contrast and fluorescence.
- Achromat 40x (N.A. 0.60), for BF, Phase contrast and fluorescence.

**3. Digital Camera System:** USB based high resolution dedicated color CMOS/CCD camera with 5.5 megapixels or more resolution. Live HD mode. High density CMOS chip size 1/1.8 inch (6.5 X 4.5 mm) and minimum 15-25 frames per second at full resolution, Live display resolution of 2800 X 2000 or better, Quantum efficiency more than 65%. Camera should be capable to capture BF/PH/ weak Fluorescence signal, DIC, Pol., DF images. Microscope, camera and software should be from same manufacturer.

**4. Software:** Image Analysis software (Licensed): Compatible software should have features like linear measurements, time lapse, 3-D image capturing, snap/movie acquisition, line profile, gallery view, volume view, macro imaging/ slice view, annotations, data exports and statistics, multi-dimensional imaging processing, object counting, fluorescence channel mixing and un-mixing. Microscope, camera and software should be from same manufacturer.

5. All cables, power-cords, adapters required for operation should be provided.

6. Fluorescence Attachment: Six to Eight position fluorescence turret with 100W mercury illumination. Fluorescence filters for DAPI/ HOECHST, FITC/GFP & TRITC/RHODAMINE should be quoted. There should be provision to add different wavelength filters in future.

7. Microscope should have compatibility to upgrade in DIC system. Microscope, Optics, camera should be from same manufacturer for better compatibility and future upgradability.

**8. Data Processing Unit:** Branded PC with i5 processor, minimum 4GB RAM, ITBHOD, Original Windows 7OS or compatible, graphic card, DVD RW, at least 18" TFT monitor, keyboard, mouse, UPS, Colour laser printer.

### **NOTE:**

Microscope, Optics, camera should be from same manufacturer for better compatibility and future upgradability.



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Certification: should have ISO, CE, UL, USFDA certification and complies international quality standard. Onsite installation and demonstration/training free of cost.

- Two year warranty and 2 years free AMC
- All the claims and specifications about the instrument should be supported by a printed and authentic technical literature
- Power supply compatible to Indian conditions
- Perspex/acrylic/sheet cover for the instrument

**Note:-**

- A) The L1 Bidder may be called for negotiation by the University (if required).
- B) The GST will be paid extra as per the norms of the Govt. so bidders are advised to quote their basic rates inclusive of all charges such as installation, FOR, carriage octroi or other type of charges but the GST will be paid extra.



# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

(Established by Govt. of Punjab vide Punjab Act No 18 of 1998)

University Procurement & Facility Department

**E-TENDER NOTICE FOR INSTRUMENTS FOR MULTIDISCIPLINARY RESEARCH UNIT (MRU),  
GGSMCH, UNIVERSITY CENTRE OF EXCELLENCE IN RESEARCH (UCER)**

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## **INSTRUCTIONS/ GUIDELINES TO THE TENDERERS**

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1. Please download the Tender document from the website of the e-procurement of the Govt. of Punjab. Please sign on all the pages of the tender document along with a stamp/ seal. Then a scanned copy of the same may be uploaded on the website at the time of submission of the tender document.
2. upload an affidavit regarding Non-Black listing as per proforma given at (Annexure-II) on Non- Judicial Papers of appropriate value, duly attested by an Executive Magistrate or a Notary Public may also be uploaded on the website. **The original document must be submitted in the university before the last date**
3. upload Technical Bid Proforma (Annexure-III).
4. upload a signed copy of the terms and conditions (Annexure-IV).
5. Detail of Bank Account for refund of EMD (Annexure – V)
6. In addition to this, following documents are to be attached with Technical Bid:-
  - i) Tender Fee: The tender **document fee of Rs.2000/-** only may be submitted through online mode only. The Tender document fee will not be accepted through any other mode. It is pertinent to mention here that the Tender document fee once deposited will be Non- refundable under any circumstances.
  - ii) **Earnest Money Deposit (EMD) of Rs. \_\_\_\_\_ /- (to be quoted as detailed in the tender) (as per quoted item/items by the firm).** The Earnest Money Deposit must be submitted **in the shape of Online Payment . No firm will be provided any type of exemption from the deposit of tender document fee or earnest money deposit under any circumstances.**
  - iii) Details of registration as Company / Shop / Establishment. The supporting document should be uploaded on the e-procurement website of the Govt. of Punjab along with the tender document.
  - iv) Copy of Certificate of Registration for service Tax/TIN/TAN/PAN/VAT (as applicable). The supporting document should be uploaded on the e-procurement website of the Govt. of Punjab along with the tender document.



# **BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT**

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- a. Attach a signed copy of the Acceptance of Tender/ Conditions Forms (Annexure-VI). The said copy must be signed and duly stamped. A scanned copy of the same may be uploaded on the e-procurement website of the Govt. of Punjab along with the tender document.
7. Amount of the price of the item should be quoted only in proforma at Annexure-VII. It is worth to mention here that the prices of the items demanded once quoted/finalized will remain same/unchanged for a period of contract.
8. It should be clearly noted that this tender will be accepted though e-tender mode only. The tenders submitted through offline mode will not be accepted under any circumstances.
9. The firm that will be declared L1 may be called for negotiation on their quoted rates.



# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

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University Procurement & Facility Department

**E-TENDER NOTICE FOR INSTRUMENTS FOR MULTIDISCIPLINARY RESEARCH UNIT (MRU),  
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## Annexure-I

### NOTICE INVITING TENDER

**E-tenders** are invited from **Manufacturers / Sole agents/ Authorized distributors/ Authorized dealers for** supply and proper installation of the following medical equipments at the BFUHS, Faridkot:

#### List of Instruments

S.No.	Instruments
1.	High Performance Liquid Chromatography (HPLC)
2.	Atomic Absorption Spectrophotometer (AAS)
3.	PCR
4.	Water bath
5.	Gel Documentation System
6.	Electrophoresis
7.	Autoclave
8.	pH meter
9.	Shaker incubator
10.	Hot air oven
11.	Microcentrifuge
12.	Colony counter
13.	CO <sub>2</sub> incubator
14.	Vacuum concentrator
15.	Centrifuge for cell culture (Refrigerated Table Top Centrifuge)
16.	Multichannel electronic micropipette
17.	Ultrasonicator
18.	2D Gradient PCR
19.	Gas chromatography–mass spectrometry (GC-MS)
20.	Inverted Fluorescent Microscope

#### **1. The L1 bidder may be called for Negotiation by the university (if required).**

The tender document containing detailed terms & conditions may be downloaded from the e-procurement website of the Punjab Government i.e. <https://eproc.punjab.gov.in> and its details may also be seen at the University website i.e. [www.bfuhs.ac.in](http://www.bfuhs.ac.in)

#### TERMS AND CONDITIONS:-





# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

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1. **Earnest Money Deposit (EMD)** quoted by the firm for item/items **as per the list mentioned above**. The Earnest Money Deposit must be submitted **in the shape of Online Payment**.
2. The tenders will be opened by the next day from the submission of tender by 5.00 PM, on the e-procurement portal of the Punjab Government in the presence of tenderer(s), who wish to be present in the said tender opening process. However, the individuals keen to attend the tender opening process should have an authorization certificate from the company.
3. The Price bid (Financial Bids) will be opened after the opening of Technical Bid. The Price Bid (Financial Bids) of the technical qualified bidders will be opened by the University.
4. The Registrar, Baba Farid University of Health Sciences, Faridkot reserves all rights to accept or reject any or all the tenders without assigning any reason.

Registrar



# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

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## Annexure-II

(To be furnished on non-judicial stamp papers  
worth Rs.30/- duly attested by Executive Magistrate or Notary Public).

### AFFIDAVIT

I/We \_\_\_\_\_ partner/sole  
proprietor (Strike out which is not applicable) of (Name & Address of Firm)  
\_\_\_\_\_ do hereby declare and solemnly affirm:-

- a) That the individual/firm/ companies are **not debarred or black- listed** by any department of Union/ State Government or any autonomous institute.
- b) That no partner or shareholder, directly or indirectly connected with the applicant has been debarred or blacklisted by any department of Union Govt./State Govt./Autonomous Institute.
- c) That the terms and conditions for “supply and properly installation of Instruments under *MRU, GGSMCH, UCER, BPUHS, Faridkot*” are acceptable to me/us. I/We will abide by them in letter and spirit.
- d) That I will supply and install the required material within the stipulated delivery period of the tender document/ supply.

Date: \_\_\_\_\_

Place: \_\_\_\_\_

DEPONENT

### **VERIFICATION**

I/We do hereby solemnly declare and affirm that the above declarations are true and correct to the best of my/our knowledge and belief. No part of it is false and nothing has been concealed therein.

Date: \_\_\_\_\_

Place: \_\_\_\_\_

DEPONENT



# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

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**E-TENDER NOTICE FOR INSTRUMENTS FOR MULTIDISCIPLINARY RESEARCH UNIT (MRU),  
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Annexure-III

## TECHNICAL BID

- 1 Name of the applicant \_\_\_\_\_  
(tenderer/ bidder).
- 2 Constitutional status of the \_\_\_\_\_  
tenderer/ bidder.  
i.e. Proprietor/ Partnership firm/ Pvt. Limited  
Company/ Public Limited Company/ Co-op  
Society etc.
- 3 Address of the tenderer/ \_\_\_\_\_  
bidder \_\_\_\_\_
- 4 Name of the Dealing Person :- \_\_\_\_\_
- 6 Position of the dealing person \_\_\_\_\_  
in the tenderer firm/  
company/ society :-
- 7 E mail id:- \_\_\_\_\_
- 8 Fax No:- \_\_\_\_\_
- 9 Mobile No:- \_\_\_\_\_
- 10 PAN Number \_\_\_\_\_
- 11 GST No. \_\_\_\_\_



# BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT

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**E-TENDER NOTICE FOR INSTRUMENTS FOR MULTIDISCIPLINARY RESEARCH UNIT (MRU),  
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## CHECK LIST DULY FILLED IN TO BE ATTACHED WITH THE TENDER

Sr. No.	Particulars	Remarks
1.	Copy of Tender Notice attached – Annexure – I  (Duly signed and stamped Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
2.	Whether an affidavit on the non-judicial stamp paper, duly attested by the Executive Magistrate/Notary, regarding non-black listing/ non-prosecution of firm has been submitted? – Annexure – II  (Scanned copy uploaded on the e-procurement portal or not?) (The original document must be submitted in the university before the last date)	Yes/No
3.	Technical Bid Proforma attached – Annexure – III  (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
4.	Signed copy of terms & conditions attached – Annexure – IV  (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
5.	Bank Details (Annexure – V) for refund of EMD attached  (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
6.	Signed copy of an acceptance of tender/ conditions (Annexure – VI)  (Scanned copy uploaded on the e-procurement portal or not?)	Yes/No
7.	Whether the fee of Rs.500/- on account of Tender Fee has been submitted through online mode or not?	Yes/No
8.	Whether an EMD of the appropriate value i.e. <b>(to be quoted as detailed in the tender) (as per quoted item/items by the firm)</b> has been submitted online in the favour of <b>“The Registrar, Baba Farid University of Health Sciences, Faridkot”</b> and payable at “Faridkot” Detail of Payment:- _____ Dated:- _____ Name of the Bank :- _____ Branch Name:- _____ Amount:- <b><u>Rs.</u></b> _____ <b><u>/- only</u></b>	Yes/No



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	<p><b>(Rs.</b></p> <hr/> <p><b>Only (in words)).</b></p> <hr/> <p>Whether a soft copy of the same has been uploaded on the designated website at the time of submission of the tender or not?</p>	
9.	<p>Whether each page of the tender document and other enclosures as well as cutting(s)/ overwriting(s) have been signed/ initialed by the tenderer and also the forwarding letter duly signed by the authorized signatory, has been submitted?</p> <p>(Scanned copy uploaded on the e-procurement portal or not?)</p>	Yes/No
10.	<p>Copy of Certificate of Registration for GST/ TIN/TAN/PAN attached.</p> <p>(Scanned copy uploaded on the e-procurement portal or not?)</p>	Yes/No
11.	Whether the Bidder is a Manufacturer of the Equipments	Yes/ NO
12.	Whether the Bidder is a Authorized Distributor of the Equipments	Yes/ No
13.	Whether the bidder is a Authorized Dealer of the Equipments	Yes/ No
14.	Copy of a supply order issued by any of the reputed Medical Institution either of the Central/ State Government/ Autonomous institution under the Central or State Government during the last financial year.	

Note: Non compliance to any of the above conditions will render the offer/ tender to be rejected out-rightly and Price bid of the firm will not be opened.

Dated:- \_\_\_\_\_.

Place:- \_\_\_\_\_.

Signature\_\_\_\_\_

Name:- \_\_\_\_\_

Address:- \_\_\_\_\_

Contract No:- \_\_\_\_\_

E-mail id:- \_\_\_\_\_

With Seal



# **BABA FARID UNIVERSITY OF HEALTH SCIENCES, FARIDKOT**

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## **Annexure-IV**

### **TERMS AND CONDITIONS**

**E-TENDER DOCUMENT supply and proper installation of Instruments at MRU,**

**GGSMCH, UCER, Baba Farid University of Health Sciences, Faridkot**

1. The Manufacturers / Sole agents/ Authorized Distributors/ Authorized Dealer may quote their rates.
2. Tenders will be submitted only through e-tendering mode. The tenders will not be submitted through any other mode, under any circumstances.
3. Tenders without earnest money or short of it or not in the form specified above will not be entertained and shall be rejected straightway.
4. No tenderer shall be exempted from furnishing Earnest Money Deposit (EMD) under any circumstances. The Earnest money must be submitted in the shape of Online payments
5. Earnest Money/ Security Deposit and/or any other sum of the tenderer(s) lying with the Baba Farid University of Health Sciences, Faridkot or Guru Gobind Singh Medical College & Hospital, Faridkot in connection with any other tender/case shall not be considered against this tender.
6. The bids received after the specified date and time for receipt of bids will not be considered under any circumstance. Registrar, BFUHS, Faridkot shall not be responsible for any type of delay in submission of the e-tenders.
7. The rates once quoted will remain valid/ un-changed for a period of one year or the period that will be further extendable upto this period.
8. The tenderer will be responsible to ensure that the tender is properly uploaded and submitted within well in time. The Earnest Money Deposit must be submitted before the last date and time for opening of the technical bids.
9. Each page of the tender document should be signed in full by the tenderer(s) and should bear the rubber stamp/seal of the firm affixed/ scanned, if applicable, on each page. Any cutting(s)/overwriting(s) etc. should also be initialed. In case of any infringement of



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these conditions, the tender is liable to be rejected. A scanned copy of the complete tender document should be uploaded on the e-procurement portal of the Govt. of Punjab.

10. In the event of the date of receipt or opening of tender being declared a holiday for the Baba Farid University of Health Sciences, Faridkot, the last date of receipt/opening of the tender shall be the next working day at the same time and venue. The Price Bid shall be opened only in respect of those individual/ firms, who technically qualify.
11. Any conditional, telegraphic tenders, fax tenders, tenders without earnest money, and not in the prescribed form or in any deviation from the terms and conditions of the tender notice shall not be entertained and will be rejected out rightly.
12. The tenderer(s) shall be at liberty to be present, in person or through their authorized representative(s) at the time of opening of the tender as specified in the Tender Notice. In case the authorized representatives are to be present, they must furnish the authority letter from the tenderer, on whose behalf they are representing otherwise they will not be allowed to participate in the process of opening of tender. THE E-TENDER WILL BE OPENED IN THE UNIVERSITY PROCUREMENT & FACILITY DEPARTMENT OF THE UNIVERSITY.
13. In case of violation of any of the terms and conditions as mentioned above, Earnest Money/ Security Deposit of the successful tenderer(s) shall be forfeited and the tender shall be cancelled.
14. Any attempt, direct or indirect, to cast influence, negotiate on the part of the tenderer with the official/authority to whom he will submit the tender or the tender accepting official/ authority before the finalization of tenders will render the tender liable for rejection.
15. The rates quoted should be F.O.R. destination that may be the University offices or any of its constituent colleges/ Institutions. The constituent institutions of the University are located at Faridkot, Badal, Jalalabad, Shri Goindwal Sahib, Bathinda and should also include packing and forwarding charges, taxes and other levies.



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16. The Registrar reserves all the rights to accept or reject any tender without assigning any reason and also to impose/relax any term and condition of the tender.

**17. CRITERIA OF EVALUATION OF PRICE BID**

The Price Bids of technically qualified bidders shall be evaluated on the basis of lowest bid criteria without compromising on the quality of material. Rates *including of all types of taxes as applicable and price of AMC will also be included in the rate* should be quoted clearly.

**18. SECURITY DEPOSIT:**

- i) The successful bidder shall be required to deposit a security of item/items as per respective EMDs in the shape of Demand Draft in favour of Registrar, Baba Farid University of Health Sciences, Faridkot drawn on any commercial/nationalized bank, payable at Faridkot
- ii) OR respective EMDs submitted with the Tender for item/items may also be considered as Security Deposit, as agreed by the successful bidder.
- iii) The Earnest Money Deposit will be refunded to the unsuccessful bidders within 6 months after the date of installation of the equipments against the satisfactory report received from the head of the institution/ department, without any type of interest.

**19. PAYMENT TERMS**

The payment of 80% of the bill will be made after delivery, installation and inspection of the material/equipment. The rest of the payment will be kept with the university as security of the machine/equipment and it will be released after completion of six months from the date of installation

The Payment will be made in the shape of Account Payee Cheques or RTGS, in the favour of the seller/ dealer only. The payment will not be made to any third party under any circumstances.

**20. PENALTY CLAUSE**

- A time period of 30 days will be given by the University to supply the material, depending upon the nature of item.





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- If the supply is not made within the stipulated period then late delivery charges @2% will be imposed on the total amount of Supply Order up to delay of 30 days and thereafter @ 4% for another 30 days after which Supply Order/Rate Contract will be deemed cancelled & security/earnest money forfeited and company will be black-listed for future. However, the University can grant 15 days relaxation in the delivery period, based on the written request of the tenderer, if the University observes that the tenderer has valid reasons for non- supply of material within the stipulated time/period.
  - a. If the Successful bidder refuses or does not respond to the instruction/orders within stipulated period, the EMD shall be forfeited and order may stand cancelled.
  - b. If the firm refused to execute the orders fully or partially, the security amount shall be forfeited and supply order may stand cancelled.

## **11. ARBITRATION**

- i) In the event of any dispute or differences arising between the parties with regard to the terms and conditions of the agreement/contract and/or with regard to the breach or interpretation thereof including all rights and liabilities there under on any matter whatsoever touching upon the terms and conditions of the agreement/contract whether in course of or after its termination the parties will settle the same at the first instance by mutual discussions/conciliation which would be conducted by the Incharge, University Procurement & Facility Department, Baba Farid University of Health Sciences, Faridkot.
- ii) In the event the said mutual discussions/conciliation fails, the aggrieved party shall initiate arbitration proceedings for resolution of differences/disputes etc., mentioned above by appointing a sole arbitrator, who shall be the Registrar, BFUHS, Faridkot in which event the said proceeding shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act enforce.
- iii) The venue of such arbitration proceeding shall be at Faridkot and the court in Faridkot alone will have jurisdiction in respect of all proceedings connected there with.



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**21. Jurisdiction** – All disputes are subject to the jurisdiction of courts at Faridkot only.

Dated:- \_\_\_\_\_.

Place:- \_\_\_\_\_.

Signature \_\_\_\_\_

Name:- \_\_\_\_\_

Address:- \_\_\_\_\_

\_\_\_\_\_

Contract No:- \_\_\_\_\_

E-mail id:- \_\_\_\_\_

With Seal

*Accepts all the terms & conditions of the Tender Under hand and seal of the authorized person*

**Accepted**

Dated:- \_\_\_\_\_.

Place:- \_\_\_\_\_.

Signature \_\_\_\_\_

Name:- \_\_\_\_\_

Address:- \_\_\_\_\_

\_\_\_\_\_

Contract No:- \_\_\_\_\_

E-mail id:- \_\_\_\_\_

With Seal



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## Annexure- V

### Details about Bank Account of the firm who has deposited EMD

Name of the firm: M/s \_\_\_\_\_

Sr. No.	Particulars	Detail
1.	Account No.	_____
2.	Name of Bank	_____
3.	Branch Name	_____
4.	IFSC Code of Bank	_____
5.	Name of Operator	_____

Dated:- \_\_\_\_\_.

Place:- \_\_\_\_\_.

Signature \_\_\_\_\_

Name:- \_\_\_\_\_

Address:- \_\_\_\_\_

\_\_\_\_\_

Contract No:- \_\_\_\_\_

E-mail id:- \_\_\_\_\_

With Seal



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## Annexure- VI

### TENDER/CONDITIONS ACCEPTANCE LETTER

Date:-----

To

The Registrar  
Baba Farid University of Health Science,  
Sadiq Road, Faridkot.

**Subject: Acceptance of Terms & Conditions of Tender.**

Dear Sir,

1. I/ We have downloaded the tender document(s) for the above mentioned 'Tender/Work' from the designated website.
2. I / We hereby certify that I / we have read entire terms and conditions of the tender documents. (including all documents like annexure(s), schedule(s), etc.), which form part of the contract agreement and I / we shall abide hereby the terms / conditions / clauses contained therein.
3. The corrigendum(s) issued from time to time by your organization too has also been taken into consideration, while submitting this acceptance letter.
4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirely.
5. In case any provisions of this tender are found violated, your organization shall be at liberty to reject this tender/bid including the forfeiture of the full said earnest money deposit absolutely and we shall not have any claim/right against organization in satisfaction of this condition.

Yours Faithfully,

Signatures :- \_\_\_\_\_

Name:- \_\_\_\_\_

Address: - \_\_\_\_\_

\_\_\_\_\_  
Contact No:- \_\_\_\_\_



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## **Financial Bid**

**Must be uploaded on the e-procurement portal**

**The Basic prices must be quoted in the bid and the GST will be paid extra,  
on the basic prices as per the Govt. norms**