



# 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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|---|---|
| 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><br><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><br><b>(as per quoted item/items by the firm)</b><br><br>In the shape of online payment.<br><br><i>{Refundable to the Non-successful bidders, without any type of interest or other charges}.</i><br><br><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><br><br><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.<br><a href="https://eproc.punjab.gov.in">https://eproc.punjab.gov.in</a>   |
| Website for downloading of the tender document:-          | From the above website<br><br>However, the details may also be obtained from the University website i.e.<br><a href="http://www.bfuhs.ac.in">www.bfuhs.ac.in</a>  |
| Last date for downloading of the tender document:-        | <b><u>21.10.2019 up to 12.30 pm</u></b>   |
| Last date & Time for submission of the tender documents:- | <b><u>21.10.2019 up to 1.30 pm</u></b><br><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><br><br>on the e- procurement portal of the Govt. of Punjab.<br><br>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/ Authorized 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<br>(in Rs.) |
|-------|---|---|
| 1.    | High Performance Liquid Chromatography (HPLC) | 90,000.00                                 |
| 2.    | Atomic Absorption Spectrophotometer (AAS)     | 1,20,000.00                               |
| 3.    | pH meter                                      | 6000.00                                   |
| 4.    | Microcentrifuge                               | 6000.00                                   |
| 5.    | Colony counter                                | 1500.00                                   |
| 6.    | CO <sub>2</sub> incubator                     | 21,000.00                                 |
| 7.    | Ultrasonicator                                | 4500.00                                   |
| 8.    | Gas chromatography–mass spectrometry (GC-MS)  | 1,20,000.00                               |
| 9.    | 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
- Power supply compatible to Indian conditions
- Perspex/acrylic/sheet cover for the instrument



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### **3. 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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## **4. 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.
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## **5. 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.
- 2 year warranty and 2 years free AMC
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## **6. 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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## **7. 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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## **8. 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
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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 µL 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



# 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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## **9. 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 15 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.



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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.



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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.



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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.    | pH meter                                      |
| 4.    | Microcentrifuge                               |
| 5.    | Colony counter                                |
| 6.    | Co <sub>2</sub> incubator                     |
| 7.    | Ultrasonicator                                |
| 8.    | Gas chromatography–mass spectrometry (GC-MS)  |
| 9.    | 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:-

- 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.



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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



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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. \_\_\_\_\_



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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<br><br>(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<br><br>(Scanned copy uploaded on the e-procurement portal or not?)<br>(The original document must be submitted in the university before the last date)   | Yes/No  |
| 3.      | Technical Bid Proforma attached – Annexure – III<br><br>(Scanned copy uploaded on the e-procurement portal or not?)   | Yes/No  |
| 4.      | Signed copy of terms & conditions attached – Annexure – IV<br><br>(Scanned copy uploaded on the e-procurement portal or not?)   | Yes/No  |
| 5.      | Bank Details (Annexure – V) for refund of EMD attached<br><br>(Scanned copy uploaded on the e-procurement portal or not?)   | Yes/No  |
| 6.      | Signed copy of an acceptance of tender/ conditions (Annexure – VI)<br><br>(Scanned copy uploaded on the e-procurement portal or not?)   | Yes/No  |
| 7.      | Whether the fee of Rs.2000/- 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”<br><br>Detail of Payment:- _____<br>Dated:- _____<br>Name of the Bank :- _____<br>Branch Name:- _____<br>Amount:- <b>Rs.</b> _____ <b>/- only</b> | Yes/No  |





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|     |  |         |
|-----|--|---------|
|     | <p><b>(Rs. _____</b></p> <p><b><u>Only (in words)).</u></b></p> <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.  | 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?<br>(Scanned copy uploaded on the e-procurement portal or not?) | Yes/No  |
| 10. | Copy of Certificate of Registration for GST/ TIN/TAN/PAN attached.<br>(Scanned copy uploaded on the e-procurement portal or not?)  | 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



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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 these conditions, the tender is liable to be rejected. A scanned copy of the complete



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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.
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.



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## **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 above said amount of the security deposit of successful bidder will be retained by the University and will be refunded after completion of period of one year from the date of installation of equipments/instruments.
- iv) The Earnest Money Deposit will be refunded to the unsuccessful bidders within 6 months 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



# 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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## 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**