



बिहार पशु विज्ञान विश्वविद्यालय

बिहार पशु चिकित्सा महाविद्यालय, पटना-800 014

**BIHAR ANIMAL SCIENCES UNIVERSITY**

BIHAR VETERINARY COLLEGE CAMPUS, PATNA- 800 014



डॉ० रविन्द्र कुमार

निदेशक शोध

**Dr. Ravindra Kumar**

Director Research

Ph. : 0612-2227253

Mob. : +91 7018765107

Email : drbasu2017@gmail.com

पत्रांक / D.O. No. 31/ETI/RC/1438

दिनांक / Date 03/03/2022

**Quotation for IVF Work Station**

Open quotations for IVF Work Station is invited from vendors/manufacturers. The detailed terms and conditions are mentioned in the document.

Important Instructions: -

Your quote should reach at the address given below by 15.03.2022 Upto 16:00 Hrs.:

- **The Director Research, Bihar Animal Sciences University, Patna, Pin: - 8000014.**

Sealed Envelope should be superscribed with quotation for IVF Work Station

Thanking You.

Yours faithfully,

(Ravindra Kumar)

**Director Research**  
Bihar Animal Sciences University, Patna-14

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# BIHAR ANIMAL SCIENCES UNIVERSITY

Bihar Veterinary College Campus, Patna - 800 014, Bihar

[www.basu.org.in](http://www.basu.org.in)

## NOTICE INVITING QUOTATION (NIQ)

for

### IVF Work Station under ETT Project BASU, Patna

NOTICE No.: D.O.No.31/ETT/LFC/498

Dated: 03-03-2022

1. Bihar Animal Sciences University, Patna invites quotation from Reputed, Eligible and Qualified Firms/Manufacturer/Suppliers of following Goods.

S. No.	Brief Description of Goods	Quantity	Place of supply & Installation
1.	<b>IVF Work Station</b> (Vertical Laminar Air flow for IVF work with In-built Vitrification Tank & Heating Stage along with Stereo-zoom Microscope with Camera, Mini PC & Image Capturing software)	01 Set	ETT & IVF Lab, Bihar Animal Sciences University, Patna

2. Schedule of Requirement: -


Sl. No.	Activity	Date/Time : Duration
i.	End Date/Time for submission of Hard copy of Quotation	15/03/2022 upto 16.00 Hrs. on given address- (Office of Director Research, Bihar Animal Sciences University, Patna-800 014)
ii.	Date & time for opening of Quotation	16/03/2022
iii.	Contact person/Nodal Officer for queries	Director Research, Bihar Animal Sciences University, Patna

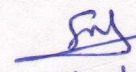
3. NIQ containing detailed specifications along with terms and condition can be downloaded from the website ([www.basu.org.in](http://www.basu.org.in))
4. Hard copy of Quotation in favour of "FINANCE COMPTROLLER, Bihar Animal Sciences University, Patna" will be reached within time at given address - (Office of Director Research, Bihar Animal Sciences University, Patna-800 014) with clear superscription "QUOTATION FOR IVF WORK STATION" on the top of envelop.
5. In the event of any of the above mentioned dates being declared as a holiday/closed day for BASU, Patna, the quotations will be opened on the next working day at the prescribed venue and time.


[Signature] 28/02/22  
[Signature] 28/02/2022  
[Signature] 28/02/2022

TERMS AND CONDITIONS

1. Bihar Animal Sciences University, Patna reserves the right to cancel the NIQ at any point of time without assigning any reason.
2. The offer submitted by Telegram/E-mail/etc shall not be considered. No correspondence will be entertained in this matter.
3. Duly signed hard printed copy of quotation documents should be submitted by the tenderer to **“Office of Director Research, Bihar Animal Sciences University, Patna-800 014 latest by 15/03/2022.**
4. **Manual and Documents:** All manuals necessary for operating and servicing the equipment (including details of electronic circuits) will have to be provided along with the instrument.
5. Tenderer should go through the terms, conditions and specifications carefully and fill in the attached compliance statement accurately and unambiguously. They should ensure that all the required documents are well furnished.

  
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28/04/2022

  
28/03/22

**SPECIAL TERMS AND CONDITIONS FOR TENDERERS**

- 1 GST Registration Certificate self-attested copy should be enclosed.
- 2 Delivery schedule with definite date of delivery at destination taking into cognizance of transit facility must be indicated. This contractual delivery date/ period should be inclusive of all the lead time.
- 3 No enquiries, verbal or written shall be entertained in respect of acceptance or rejection of the quotation.
- 4 Any action on the part of tenderer to influence anybody of the university shall make his/ their quotation liable for rejection.
- 5 In case of placement of purchase order, the vendor (whose quotation is accepted) may comment on the purchase order within 10 days from the date of dispatch of purchase order otherwise it seems that offer is acceptable to the vendor..
- 6 Bihar Animal Sciences University, Patna may in writing make any revision or change in the purchase order, including additions or deletions from the quantities originally ordered or in the specifications or drawing. If any such revisions/ changes affect the price or delivery, the same shall be subject to the adjustment of price/ delivery, wherever required on a reasonable basis by mutual agreement in writing which should be communicated.
- 7 The institute reserves the right to cancel the purchase order or any part thereof shall be entitled to revise the contract wholly or in a part by written notice to the vendor if:-
  - (a) The vendor fails to comply with the terms and conditions of the purchase order including specifications and other technical requirement.
  - (b) The vendor becomes bankrupt or goes into liquidation.
  - (c) The vendor fails to deliver the goods in time and or does not replace the rejected goods promptly.
- 8 Supply order will be issued as per the requirement of the institute. The supplier will have to supply ordered materials within the delivery time mentioned in the supply order.
- 9 Unless otherwise specified in the order, the order price shall remain firm and will not be subject to escalation of any description during the dependency of the order, notwithstanding the change in the cost of material and components he/they may take clearance while the order is under execution even if the execution of the order for any reason whatsoever.

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- 10 The institute may its option, reject such defective materials at the vendor's expense without any cost to the Institute and as promptly as possible, remove such materials and furnish and install proper and acceptable material.
- 11 In the event of delay delivery and/or unsatisfactory manufacturing progress and supply, the Institute has the right to cancel the purchase order as whole or in part without liability for cancellation charges.
- 12 Timely delivery as mentioned in purchase order shall be in the essence of the order and no variation shall be permitted except with prior authorization in writing from the Institute.
- 13 In the event of delay in making delivery on the part of the vendor, it will be at Institute discretion to receive delivery with a reduction in price of the article/or equipment.
19. No payment shall be made for rejected materials nor would the tenderer be entitled to claim for such items.
20. Rejected materials would be removed by the tenderer from the site within two weeks or the date of rejection at their own cost. In case they are not removed they will be auctioned at the risk and responsibility of the suppliers without any further notice.
21. In case of not honouring the supply order, the Institute will have the right to impose penalty as deemed fit and to resort to make purchase at the suppliers cost and risk and his security deposit may be forfeited in favour of the Institute cost and risk.
22. Taxes & Levies - rates of inclusive of all taxes, duties and GST. No extra payment will be made by the BASU, Patna in this regard.
23. Disputes, if any, arising between the Institute and the bidder out of or in connection with the terms and conditions contained herein shall be referred for arbitration to the Patna jurisdiction. Disputes shall be decided keeping in view of the terms and conditions of the tender and Bihar financial rules applicable to the Institute.
24. **Bihar Animal Sciences University, Patna have DSIR Certificate (Reg. No.: TU/V/RG-CDE (1293)/ 2020 Dated: 07.01.2021). Hence, Customs Duty exempted on all the scientific equipment and GST should be quoted @5% only. So, price should be quoted considering this point and DSIR certificate may be made available on demand at the time of issue of supply order.**
25. **Minimum two years' warranty from the date of installation will be provided.**
26. No Advance payment shall be made.
27. For delay in supply, BASU will charge liquidated damage @0.5% per week maximum 10% after which the order will be cancelled.

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**QUOTATION FORM**

To,

The Director Research,  
Bihar Animal Sciences University, Patna-14

Subject: Notice No.: .....

Sir,

I have gone through the terms and conditions laid down in the tender documents and accept the same.

I am hereby submitting the Quotation and enclosing the documents as per details given below:

**CHECK LIST**

1. Quotation as per specification
2. Attested copies of GST registration.
3. Attested copies to PAN (Permanent Account Number).
4. Address Proof.
5. Enclosure of detail technical specification and other required documents.
6. Certificate that firm possess its Service Centre in Patna/Pan India.
7. Quotation Documents duly signed on all pages.

Certified that each and every page of the tender documents are serially numbered and signed by me.

Yours faithfully,

Nature and Name of the authorized Signatory with seal

Designation

Name of the company/firm (Tenderer)

*[Signature]*  
28/02/2022

*[Signature]*  
28/02/2022

**Details of Firm/Tenderer**

- 1. Name of the Tenderer/Firm: .....
- 2. Manufacturer/Importer: .....
- 3. Proprietorship: .....
- 4. Full Postal Address .....
- .....
- .....
- .....
- .....
- 5. Mobile No.: .....
- 6. Fax No.: .....
- 7. e-mail Address:.....
- 8. Bank details of the bidder/tenderer :.....
  - Name of Account Holder:.....
  - Name of Bank:.....
  - Bank Account No.:.....
  - IFSC & MICR Code:.....
  - Address of the Bank:.....

Seal & Signature of Bidder

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**Technical Compliance of the Bidder with reference to the 'Specification of Equipments'**  
**(Separate form to be used for each item offered)**

Name of the Bidder/Tenderer:

Tender No.:

Name offered goods/equipments:

Make/Model no (as applied):

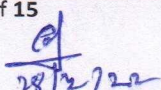
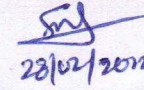
Sl. No.	Technical specification From Bihar Animal Sciences University	Features available in equipments Yes or No	Any deviation from Specification, if any	Corresponding part number/ datasheet/ page no. in broacher in support of specification
1.	<b>Vertical Laminar Air Flow For IVF work with In-built Vitrification Tank &amp; Heating Stage</b>			
	<b>A. Vertical Laminar Air Flow</b> of PURE SS 304 food grade quality with mat finish base (18/20 guage)			
	<b>i. Dimensions:</b> L x W x H – min 50"x30"x45"			
	<b>ii. Stand:</b> Two sides Rectangular Bar with height of approx. 3 feet & Support bars of (min.) 1.5"x1.5" along with Anti-vibration PAD.			
	<b>iii. Side Frames:</b> Polycarbonate sheet mounted as side			


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	<p>panels.</p> <p>iv. <b>Filters:</b> Mini-plate Hepa filter of Aluminium Flange Type, approx. 0.3-0.35 micron with filtration efficiency of 99.97% .</p>			
	<p>v. <b>Pre -Filter &amp; VOC filter:</b></p> <p>a. <u>Pre -Filter:</u> with aluminium flange type of 10 micron with filtration efficiency of 90 % .</p> <p>b. <u>VOC filter:</u> 10 micron filter with activated carbon</p>			
	<p>vi. <b>Blower:</b> Centrifugal Blower, EC Blower with speed regulator</p> <ul style="list-style-type: none"> <li>o 0.5 HP motor,</li> <li>Noise level- not more than 60 decibel</li> </ul>			
	<p>vii. <b>Pressure Gauge:</b> Digital Display with Pressure Probe will indicate controlled Air volume delivered at area between blower and hepa filter.</p>			
	<p>viii. <b>Digital Display Panel</b></p>			

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

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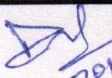
*and LED light:*

- a. Push to ON/OFF, Temp Display, Pressure, Blower ON/OFF, Microscope Switch.
- b. Approx. 20-25" LED Light inside cabinet
- c. Proper provision for Fixing of TFT screen on front panel.

**B. Heated Table Top (37 Degree )/Heating Stage:**

- i. Aluminium heating plate minimum 5 mm thick mounted on table top of area at least 30"\*20" leaving 18"\*24" to accommodate *In-built* vitrification Tank.
- ii. Beneath stereo-zoom microscope 6"\*6" square glass heating stage with independent controls

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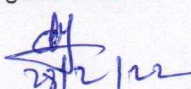

  
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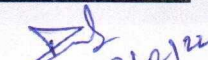
**C. Vitrification Tank:**

- i On the table top a Notch is created to accommodate a Vitrification
- ii Tank of Size: approx. 12" \*9"
- iii Vitrification Tank: It's a Double Jacketed SS 304 make material having lead and Box type arrangement
- iv Vitrification system. Same is vacuumized to maintain LN2 at -196 degree for a period of around 30-45 min.
- v Both Box & LEAD are vacuumized.
- vi It has Latch & Lock System for better handling & movement.

**2. STEREOZOOM MICROSCOPE**

- i **Main Body:** It should have facilities of Stereo zoom, Parallel optics zooming system and Research stereo-zoom microscope, it should be international brand.

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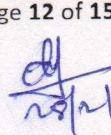

	ii <b>Zoom Ratio:</b> minimum 7.5:1,			
	iii <b>Zoom Range:</b> from 0.67x -5x (min)			
	iv <b>Total magnification:</b> from 14x-100x (with 2x objective),			
	v <b>Objectives:</b> Should have Plane Apochromatic, Working distance 70 mm or more; Eyepiece 10X , Rubber Eye-Shields/ Rubber Eye Guard, .			
	vi <b>Stand:</b> C-DS Diascopic Stand with Reflecting mirror with transparent stage glass, armrest (01) with LED Unit for Illumination			
	vii <b>Accessories:</b> All required accessories, adapter, power cable etc. should be provided			
3.	<b>Camera +CPU +Software</b>			
	i <b>Camera:</b> Coloured HDMI camera with min 5 MP, USB 2 camera with Image capturing software. Camera should be capable to capture BF/PH/Fluorescence images.			

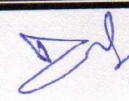
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	images.			
ii	<b>Computer:</b> Branded computer Intel processor, with card less keyboard, card less mouse, UPS, adapter etc.			
iii	<b>Software:</b> Licensed imaging software for 3-D imaging, Fluorescence channel mixing / un-mixing, image analysis, live cell imaging, AVI, multichannel & multipoint image capturing, Intensity measurements, manual counting, line profile, spatial measurements such as length, width, area, perimeter. Software should be from same manufacturer.			

Seal & Signature of Tenderer

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**Price Schedule form:**

Price Schedule for Goods Being Offered from India/abroad in INR

(Separate form to be used for each item offered)

Name of the Bidder/Tenderer:

Name & Model No. of offered goods (as applied):

Quotation No.:

Make/Model (as applied):

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**Specifications for IVF Work Station (n= 01 Set)**

(Vertical Laminar Air flow for IVF work with In-built Vitrification Tank & Heating Stage along with Stereo-zoom Microscope with Camera, Mini PC & Image Capturing software)

**1) Vertical Laminar Air Flow For IVF work with In-built Vitrification Tank & Heating Stage**

**(A). Vertical Laminar Air Flow** of PURE SS 304 food grade quality with mat finish base (18/20 guage)

- i. **Dimensions:** L x W x H – min 50’’x30’’x45’’
- ii. **Stand:** Two sides Rectangular Bar with height of approx. 3 feet & Support bars of (min.) 1.5’’x1.5’’ along with Anti-vibration PAD.
- iii. **Side Frames:** Polycarbonate sheet mounted as side panels.
- iv. **Filters:** Mini-plate Hepa filter of Aluminium Flange Type, approx. 0.3-0.35 micron with filtration efficiency of 99.97% .
- v. **Pre -Filter & VOC filter:**
  - a. **Pre -Filter:** with aluminium flange type of 10 micron with filtration efficiency of 90 % .
  - b. **VOC filter:** 10 micron filter with activated carbon
- vi. **Blower:** Centrifugal Blower, EC Blower with speed regulator
  - a. 0.5 HP motor, Noise level- not more than 60 decibel.
- vii. **Pressure Gauge:** Digital Display with Pressure Probe will indicate controlled Air volume delivered at area between blower and hepa filter.
  - a. **Digital Display Panel and LED light:**
    - i. Push to ON/OFF, Temp Display, Pressure, Blower ON/OFF, Microscope Switch.
    - ii. Approx. 20-25’’ LED Light inside cabinet
    - iii. Proper provision for Fixing of TFT screen on front panel.

**(B). Heated Table Top (37 Degree/adjustable)/Heating Stage:**

- i. Aluminium heating plate minimum 5 mm thick mounted on table top of area at least 30’’\*20’’ leaving 18’’\*24’’ to accommodate *In-built* vitrification Tank.
- ii. Beneath stereo-zoom microscope 6’’\*6’’ square glass heating stage with independent controls.

**(C). Vitrification Tank:**

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- ii. **Tank of Size:** approx. 12" \*9"
- iii. It's a Double Jacketed SS 304 make material having lead and Box type arrangement vitrification system. Same is vacuumized to maintain LN2 at -196 degree for a period of around 30-45 min.
- iv. Both Box & LEAD are vacuumized.
- v. It has Latch & Lock System for better handling & movement.

**2) STEREOZOOM MICROSCOPE**

- i. **Main Body:** It should have facilities of Stereo zoom, Parallel optics zooming system and Research stereo-zoom microscope, it should be international brand.
- ii. **Zoom Ratio:** minimum 7.5:1,
- iii. **Zoom Range:** from 0.67x -5x (min),
- iv. **Total magnification:** from 14x-100x (with 2x objective),
- v. **Objectives:** Should have Plane Apochromatic, Working distance 70 mm or more;
- vi. **Eyepiece:** 10X , Rubber Eye-Shields/ Rubber Eye Guard,
- vii. **Stand:** C-DS Diascopic Stand with Reflecting mirror with transparent stage glass, armrest (01) with LED Unit for Illumination
- viii. **Accessories:** All required accessories, adapter, power cable etc. should be provided.

**3) Camera +CPU +Software**

- i. **Camera:** Coloured HDMI camera with min 5 MP, USB 2 camera with Image capturing software. Camera should be capable to capture BF/PH/Fluorescence images.
- ii. **Computer:** Branded computer Intel processor, with card less keyboard, card less mouse, UPS, adapter etc.
- iii. **Software:** Licensed imaging software for 3-D imaging, Fluorescence channel mixing / un-mixing, image analysis, live cell imaging, AVI, multichannel & multipoint image capturing, Intensity measurements, manual counting, line profile, spatial measurements such as length, width, area, perimeter. Software should be from same manufacturer.

**General considerations:**

1. Onsite Warranty should be at least for Two years (24 months) from date of Installation.
2. Material should be standard quality.
3. On-site installation will be done by firm within 30 days of receipt of items.

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