

**ASSAM AGRICULTURAL UNIVERSITY**  
**Khanapara-781022**

**BIDDING DOCUMENT**  
**(Terms and conditions)**



**DIRECTORATE OF RESEARCH (VETY.)**  
**ASSAM AGRICULTURAL UNIVERSITY**  
**Khanapara-781022**

**DIRECTORATE OF RESEARCH (VETY)  
ASSAM AGRICULTURAL UNIVERSITY :: KHANAPARA-781022**

No. : 99/DRV/368/3/NIQ/2023-24/1781(A)

Dated: 20.07.2023

**NOTICE INVITING QUOTATION**

Separate Sealed quotations are invited from reputed manufacturer/authorized dealer/suppliers under Double Bid System for installation and commissioning of **Design, Fabrication and Assembly of a neonatal environment; Monitoring and Alert System; Neonatal Environment Analyser and Modulator System** for the “**Development of a Portable Neonatal Incubator for new-born Puppies**” at CVSc, AAU, Khanapara.

The Tender documents may be obtained from the office of the Director of Research (Vety), Assam Agricultural University, Khanapara, Guwahati-22 personally on payment of Tender fee of Rs 300/- (Rupees Three Hundred) only in the form of Demand Draft to be drawn in favour of DIRECTOR OF RESEARCH (VETY), AAU, KHANAPARA payable at SBI, Khanapara Branch. The Tender Documents may also be downloaded from the website [www.aau.ac.in](http://www.aau.ac.in) and [www.vetbifg.ac.in](http://www.vetbifg.ac.in) subject to the condition that the bidders must have to submit the Tender fee Rs 300/- along with the quotation, without which the tender/ quotations will be rejected. The tenders/quotations will be received up to **4:00 PM of 10<sup>th</sup> August, 2023**. The undersigned reserves the right to accept or reject any or all the quotations without assigning any reason thereof.

Sd/-

Director of Research (Vety)  
Assam Agricultural University  
Khanapara, Guwahati-781022

Memo No.: 99/DRV/368/3/NIQ/2023-24/1781-86

Dated: 20.07.2023

**Copy for information and necessary action to**

1. The Comptroller, Assam Agricultural University, Jorhat-13
2. The Professor in Charge, AKMIT Cell, AAU, Jorhat/Khanapara. He is requested to upload the NIQ in the website.
3. HOD, Department of ARGO, College of Veterinary Science, Assam Agricultural University, Khanapara, Ghy-22
4. The P.I., AAU Funded Project “Development of a Portable Neonatal Incubator for new-born Puppies” at CVSc, AAU, Khanapara.
5. The Advertisement manager, The NiyomiyaBarta with a request to publish the above Advertisement in one issue of your paper and submit the bill in favour of Director of Research (Vety.), Assam Agricultural University, Khanapara with copy of the Advertisement for payment.
6. Office Copy



Director of Research (Vety.)  
Assam Agricultural University  
Khanapara, Guwahati-781022

## TERMS AND CONDITIONS

1. The quotation fees of Rs.300/- (Rupees Three hundred only) in favor of DIRECTOR OF RESEARCH VETY is not refundable. Those who will submit the quotation by downloading the tender documents, they must have to submit the quotation fee in the form of Demand Draft along with the quotation without which quotation will be rejected.
2. The bidder shall enclose the earnest money 4% for items of Rs. 10,00,001 and above, 3% for items of Rs. 5,00,001 to Rs. 10,00,000 and 2% for items of upto Rs. 5,00,000 of the quoted price in the shape of DD drawn in favor of the DIRECTOR OF RESEARCH VETY, payable at SBI, Khanapara Branch. The bids that are not accompanied by the aforesaid bid security will not be accepted. The details of bid security must be provided. The bid security of the unsuccessful bidders will be released after issuing supply to the successful bidder and the bid security of the successful bidder will be released after execution of the order.
3. The tender fee and EMD are exempted for those who have registered under department of Micro, Small and Medium Enterprise (MSME) as per rule 170 of GFR 2017. They should enclose the copy of the registration certificate unless the bid documents treated as invalid.
4. The bidder should provide EMD against each item in a seal envelop. The quotation shall be sealed and super scribed at the top of sealed cover "Quotation for equipment invited vide memo no.No.99/DRV/368/3/NIQ/2023-24/1781(A) Dated: 20.07.2023
5. Quoted price: To facilitate format evaluation, the bidder shall quote the price of items separately along with relevant papers for supporting the quoted price such as catalogue, dealership certificate and Co's printed price list, user list etc. failing which the bid shall be treated as non-responsive at the discretion of the purchaser.
6. The bid submitted to the bidder shall remain valid for a period of 90(ninety) days. Bid not conforming to this provision shall be treated as non-responsive.
7. To facilitate prompt evaluation, the bidder must positively submit **Double Bid (Technical and financial bid separately)** for the item for verification and evaluation. If the bidder fails to qualify the technical part, the bid would automatically get cancelled for the same prior to opening of the financial bid.
8. Quotation must also be submitted in a soft copy in CD (to supporting Microsoft words only) in the following format failing which the bid treated as non-responsive, at the discretions of the purchaser. In case of any optional items, pictures should be shown separately. Any discrepancies in the soft copy will be there responsibility of the bidder.

### **Format**

Name of Item	Brief Specification	Unit Price	GST/Freight Charge if any(FOR Destination)	Total
--------------	---------------------	------------	--	-------

9. The rate shall be quoted for all duties, taxes and other levies payable by the bidder shall be included in the item rate. GST should be quoted separately(GST No. must be furnished)
10. There should not be any overwriting. Corrections, if any, should be made with dated initial of bidder. Bidder shall submit quotation separately in each item.
11. Rates should be quoted clearly both in words and figures separately for each item without which the quotation shall stand rejected.
12. The price quoted shall be fixed and not subject to adjustment/variation during the performance of the contract.
13. The warranty of the items shall be as per the prevailing warranty policy/certificate of manufacturer (where necessary) for the items and warranty period shall not be less

- than 1 (one) year from the date of commission in go items at site. The supplier must provide a user's list of similar works with valid certificates.
14. The bidder shall furnish the warranty for all the items at the time of delivery and commissioning. The purchaser shall reject the items not enclosed by warranty certificate from their manufacturer. The warranty certificate should be duly signed and sealed.
  15. Bidders must supply the items at their own cost. All machineries/equipments/kits are to be supplied FOR destination. Delivery of goods shall have to be completed within 30 (thirty) days from the date of issuing supply order.
  16. Installation and commissioning charges, if any, inclusive of expenses of foundation work etc. are to be mentioned separately against each machine. In case of no mention, the same will be considered as inclusive of installation cost when ever applicable.
  17. The machineries are to be supplied ready to operate, complete with motor, starter and any necessary gadgets including catalogues, troubleshooting manual etc. without which the same will be considered as incomplete supply.
  18. List of spare parts with current price to be required during operation of the machines and addresses of the source of spare parts availability including contact no., e-mail etc. are to be provided in a separate sheet.
  19. Price of one set of critical wearable spares that would hamper the working of the machineries/equipments should be mentioned separately against each machine.
  20. The supplier shall provide free maintenance services during the period of warranty. Any repair and maintenance including providing of spare parts (covered by manufacturer's warranty certificate) during the warranty period shall be bidder's responsibility.
  21. Detailed specification with make, model, size, and code no., catalogue, and name of manufacturer should be furnished. ISO certificate must be furnished for the offer make where applicable.
  22. Copies of S.S.I registration or such documents may be produced with quotation.
  23. Attested copies of dealership certificate and Co's printed price list must be enclosed with the quotation.
  24. Up-to-date sale Tax clearance certificate and Income Tax return of last three years duly attested must be submitted along with the quotation. PAN No. must be furnished.
  25. All payment shall be made preferably in Indian Rupees only.
  26. Where ever the laws and regulations require, deduction of taxes at source of payment, the purchaser shall effect such deduction from the payment due the supplier, the remittance of amounts so deducted and insurance certificate for such deduction shall be made by the purchaser as per the laws and regulation in force.
  27. Every page of the bidding documents purchased from the purchaser are to be signed by the bidder including their acceptance of terms and conditions and returned with their quotation.
  28. The undersigned reserves the right to accept or reject any quotation and to cancel the instant bidding process and reject all quotation at any time prior to award of contract, without thereby incurring any obligation to the affected bidders of grounds for the purchaser action.
  29. The bidder must mention their bank details along with the quotation.



Director of Research (Vety.)  
Assam Agricultural University  
Khanapara, Guwahati-781022

ANNEXURE –I  
Format for EMD Details

Sl. No	Sl. No of the item (as per bid document)	Name of the item quoted	Basic price of the item (excluding taxes and transportation charges)	Price in Indian rupee ( for imported items at the prevailing rate of exchange)	Amount of EMD (4% for items of Rs. 10,00,001 and above, 3% for items of Rs. 5,00,001 to Rs. 10,00,000 and 2% for items of upto Rs. 5,00,000)	Details of EMD submitted including amount and validity

Annexure-II  
 FORMAT FOR COMPLIANCE STATEMENT

S l . N o	Name of the Item as per Bid Document	Make: Model:	
Detailed Specification:			
S l N o .	Specification Asked for	Specification offered*	Complied (Yes/No)

\*The Specification offered must be verifiable from the data sheet (both softcopy and hardcopy) from the OEM, provided by the vendor as well as the official website of the OEM.

**FORMAT FOR QUOTATION**  
(Separate Quotation for individual items to be submitted)

S l · N o	Name of the item (s)	Brief Specification	U n i t p r i c e	% of GST/Freight charge/Installation Charge; <i>if any</i> (FOR Destination)	Total amount

We agree to supply the above items in accordance with the technical specification mentioned. We also confirm that normal commercial warranty/guarantee of months shall apply to the offered goods.

Quotationers Name:

Signature

Date:

Seal

## TECHNICAL SPECIFICATIONS OF EQUIPMENTS

SL. No	Name of the item	Quantity	Specification
1	<p><b>Design, Fabrication and Assembly of a neonatal environment</b></p> <p>Comprising of minimum:            2 units of Development Boards            2 units of 2703A+ digital hot air rework station            2 units of Cameras            5 units of Temperature Humidity Sensor            5 units of Motion Sensor            5 units of Gas Sensor</p>	1	<p>Design &amp; Assembly of a 1.5ftx2.5ft Neonatal Intensive Care Unit for Newborn Puppies</p> <p>Should have enough space for 10 neonatal puppies</p> <p>Should support installation of Fans and panels of sensors as required</p> <p>CPU NXP i.MX 8M SoC (quad Cortex-A53, Cortex-M4F)            GPU Integrated GC7000 Lite Graphics            ML accelerator Google Edge TPU coprocessor:            4 TOPS (int8); 2 TOPS per watt            RAM 1 or 4 GB LPDDR4            Flash memory 8 GB eMMC, MicroSD slot</p> <p>All digital controls            Quick heat up enabled            Long life heating element            Built-in air flow gauge            70 Watt soldering iron            500 Watt metal heater            Heat tube spreader for improved heat flow            Automation feature that allows a 5 segment profile to be stored and run            Digital calibration for the hot air, desoldering gun and soldering iron.            Programmable sleep timer for the hot air, desoldering gun and soldering iron.            Multiple resolutions - 1080p/30fps (up to 1920 x 1080 pixels) - 720p/30fps (up to 1280 x 720 pixels)            3MP            Focus type: Autofocus            Lens type: Glass            Mic range: Up to 1 m            Diagonal field of view (dFoV): 78°            Sensor Chip: SHT25            Typ. Humidity Accuracy: +-1.8            Typ. Temperature Accuracy: +-0.2            Interface: I2C            Target Gas- CO2, CH4, PM2.5, CH2O, O3, CO, TVOC, NO2</p>



<p>2</p>	<p><b>Monitoring and Alert System</b></p> <p>Comprising of minimum:  2 units of Development Boards  2 units of Cameras  5 units of Temperature Humidity Sensor  5 units of Motion Sensor  5 units of Gas Sensor  5 units of LCD Display  5 units of Micro Controller  5 units of 20 mtrs of Led Strip</p>	<p>1</p> <p>CPU NXP i.MX 8M SoC (quad Cortex-A53, Cortex-M4F)  GPU Integrated GC7000 Lite Graphics  ML accelerator Google Edge TPU coprocessor:  4 TOPS (int8); 2 TOPS per watt  RAM 1 or 4 GB LPDDR4  Flash memory 8 GB eMMC, MicroSD slot  Multiple resolutions - 1080p/30fps (up to 1920 x 1080 pixels) - 720p/30fps (up to 1280 x 720 pixels)  3MP  Focus type: Autofocus  Lens type: Glass  Mic range: Up to 1 m  Diagonal field of view (dFoV): 78°  Sensor Chip: SHT25  Typ. Humidity Accuracy: +-1.8  Typ. Temperature Accuracy: +-0.2  Interface: I2C  Target Gas- CO2, CH4, PM2.5, CH2O, O3, CO, TVOC, NO2  Working Voltage- 5V (DC)  Average Current- &lt; 300 mA  Peak Current- &lt; 500 mA  Physical interface- XH2.54-4P  1024 x 600 screen resolution and IPS display panel  Toughened glass capacitive touch panel, 6H hardness.  HDMI interface for displaying, USB interface for touch control.  Wifi: 802.11 b/g/n (802.11n up to 150 Mbps)  32-bit LX6 microprocessor(s)  Support for Bluetooth Low Energy (Bluetooth LE)</p>
----------	---	---

<p>3</p>	<p><b>3 A. Neonatal Environment Analyser and Modulator System</b></p> <p>Comprising of minimum:  5 units of Motion Sensor  5 units of Gas Sensor  2 units of 2703A+ digital hot air rework station  2 units of Owon HDS272S 70 MHz Handheld Digital Multimeter  2 units of Andonstar AD409 PCB Soldering with HDMI and Digital Zoom scope</p>	<p>1</p>	<p>All digital controls  Quick heat up enabled  Long life heating element  Built-in air flow gauge  70 Watt soldering iron  500 Watt metal heater  Heat tube spreader for improved heat flow  Automation feature that allows a 5 segment profile to be stored and run  Digital calibration for the hot air, desoldering gun and soldering iron.  Programmable sleep timer for the hot air, desoldering gun and soldering iron.  Oscilloscope + multimeter + waveform generator, multifunction in one. Should be Equipped with a 3.5-inch high-resolution, high-contrast color LCD screen. Should be equipped with 18650 battery, the comprehensive power consumption is less than and equal to 3W, and can work continuously for about 6 hours.  Should be made of high-quality ABSplastic, it is safe, durable, and equipped with a Type-C interface, supports power bank power supply, supports PC connection, supports SCPI communication function and self-calibration function.  10.1-inch adjustable LCD screen;4 MP image sensor, industrial lens;  PC/Mobile/Tablet connection supported;  WIFI supported;  With measurement software, easy and convenient measuring  Up to 120FPS frame rate; real-time play via HDMI w/o recording;  UV filter, protect the lens from being dirty or damaged during soldering.  10.1-Inch or more Display</p>
----------	---	----------	---

	<p><b>3 B. Components of a electronic circuit development system</b></p>	<p>5</p>	<p>XC6206P332MR (662K), BSS138 SOT23 - MOSFET - N-Channel Hottech, AO3400 A09T SOT-23 N-CH MOSFET, 6 pin JST PH 2.0mm SMT Header Vertical Straight Top Entry, 5 pin JST PH 2.0mm Through Hole Header Vertical Straight Top Entry, 4 pin JST PH 2.0mm Through Hole Header Vertical Straight Top Entry, 10 pin JST PH 2.0mm Through Hole Header Vertical Straight Top Entry, SS34 SS34A DO-214AC SMA Small SMD 3A 40V Schottky Diode, SS14 SMA DO-214AC 1A 40V Schottky Diode, 100uF 16V (107C B3528) Tantalum, 47uF 10V (476A A3216) Tantalum  10K 1% 0805, 100K 1% 0805, 1K 1% 0805, 220R 1% 0805, 1117-3V3 3.3V 1A SOT223 Low Drop Linear Voltage Regulator, SMD Tactile Switch, 3x6x2.5mm, 1uF 105 0805 (2012 metric) 50V X7R MLCC SMD, 10uF 106 0805 (2012 metric) 50V X7R MLCC SMD, 100nF 104 0805 (2012 metric) 50V X7R MLCC  2P 5mm 20A Screw Terminal, 3P 5mm 20A Screw Terminal, LM2596R-5.0 TO263 HTC 5V@3A Fixed 150kHz Step-Down Switching Regulator</p>
--	--	----------	---