

OFFICE OF THE DEAN  
FACULTY OF VETERINARY SCIENCE::ASSAM AGRICULTURAL UNIVERSITY  
KHANAPARA, GUWAHATI-22

NIQ Ref.: AAU/CVSc/Quotation/ICAR-Dev/2018-19/

Date :

NOTICE INVITING TENDER

Sealed quotations are invited from reputed manufacturer/authorized dealer/suppliers for supply of various equipments and appliances to the Faculty of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati-781 022. The quotations will be received at the office of the undersigned up to 12 days after publication of the advertisement . If last day falls on closing day then next working day will be considered for submission of quotation.

Details of the equipments along with the terms & conditions may be collected from the office of the undersigned during office hours from the next day of publication of this advertisement on payment of Rs. 300.00 in the form of Bank Draft drawn in favour of the **Dean, Faculty of Veterinary Science, AAU, Khanapara, Guwahati-22**. The list of equipments can also be down loaded from web site [www.vetbifg.ac.in](http://www.vetbifg.ac.in).

Dean,

F.V.Sc., AAU, Khanapara.

Memo No. AAU/CVSc/Quotation/ICAR Dev/2018-19/01,951-978

Dtd. 22/2/19

Copy forwarded for information and necessary action to :-

1. The Registrar, AAU, Jorhat-13.
2. The Comptroller, Assam Agricultural University, Jorhat – 13.
3. The Jt. Registrar, AAU, Khanapara.
4. All Head of the Departments, C.V.Sc., AAU, Khanapara.
- ✓ 5. Coordinator, ARIS Cell, CVSc, AAU, Khanapara with a request to upload the detail advertisement in web site [www.vetbifg.ac.in](http://www.vetbifg.ac.in).
6. The Advertising Manager, The Assam Tribune, Chandmari, Guwahati-781 003 with a request to publish the above advertisement in minimum size and space in one issue of your esteemed daily urgently and submit the bills in triplicate along with the paper cut for payment.
7. The Director General of Commercial Intelligence & Statistics, 1, Council House Street, Kolkata-700001. He is requested to publish the above quotation notice one time and submit the bills in triplicate to the undersigned for payment.
8. Notice Board, Dean's Office, FVSc, AAU, Khanapara.
9. Office copy.

Dean,

F.V.Sc., AAU, Khanapara.

22/2/19

## **GENERAL TERMS AND CONDITIONS:**

1. Any item offered/quoted should conform to the technical specifications desired by the purchaser. Quotations for items beyond the scope of the technical specification asked for shall not be entertained.
2. The compliance statement (technical specification desired and offered) along with separate sheet of Terms & Conditions should invariably accompany the quotation both as 'hard copy' and 'soft copy' typed in MS word in A4 size paper in landscape orientation (Font size 12, Times New Roman) in the prescribed format (Annexure-I), without which the quotation shall not be considered.
3. In case the tender document is downloaded from the website, the bidder shall have to deposit Rs. 300.00 in the form of Bank Draft drawn in favour of Dean, Faculty of Veterinary Science, AAU, Khanapara, Guwahati-22.

## **INSTRUCTION TO BIDDERS**

1. All Quotations should mention in the cover of the Envelope distinctly the name of the Item, Item Sl. No., NIQ Ref. No., Bidder's Name & Address, Contact No. etc. as shown below:-

**QUOTATION FOR SUPPLY OF .....(Item name & Sl. No.) FOR THE FVSc., AAU, KHANAPARA, GUWAHATI**

**NIQ REF NO. (NIQ Ref. No.....), DATED....., (LAST DATE FOR SUBMISSION).**

**To,  
The Dean,  
Faculty of Veterinary Science  
Assam Agricultural University  
Khanapara, Guwahati- 781022  
Assam, India**

**From: M/s \_\_\_\_\_  
Contact No.: \_\_\_\_\_  
Email ID: \_\_\_\_\_**

2. Standard Technical literature preferably printed & supplied by manufacturer concern on each of the items offered.
3. Dealership certificate on the offered products in case of dealer.
4. List of reputed organizations/Institutions, where similar orders have been executed **(copies of the purchase/work orders will have to be enclosed).**
5. Up-to-date GST Registration certificate including TIN of the firm will have to accompany the quotation to be submitted.
6. In case the offered price is inclusive of all taxes, **the tax components in details should be shown separately.**
7. **Earnest money should be shown in details in the forwarding letter.**
8. Details of nature and maximum period of **warranty** offered by the Bidder/Vendor.

9. After Sales Service: The name & address of the nearest available authorized service centre to CVSc., AAU, Guwahati, should be stated in the quotation.
10. NOTE: The bid documents are not transferable and the firm's seal and signature of the authorized official must appear on all the papers and envelopes submitted.
11. **At the time of delivery/Installation the supplier should stick a Sticker in a suitable side of the instrument/Machine indicating the following:-**
- **The name of the company/supplier:-**
  - **Date of Delivery:-**
  - **Department/Office:-**
  - **Date of Installation:-**
  - **Expiry date of warranty period as per tender:-**
  - **Date of start for AMC:-**
  - **Contact No.:**

Sd/-  
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FVSc., AAU, Khanapara,  
Guwahati-22

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**TERMS & CONDITIONS:**

(Please note the term 'both foreign & indigenous' wherever mentioned, means the term is applicable to both foreign & indigenous purchase)

01. Rates: Rates quoted for indigenous items must be on FOR Faculty of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati- 781022, on DOOR DELIVERY Basis, with break-up as per details below (For import items please refer 'Additional Terms for imported goods' below).

Break-up of cost:

- (a) Basic Price
- (b) (+) GST
- (c) Sub-Total Price
- (d) (+) Freight & Insurance Charge, if any
- (e) (+) Installation & Commissioning Charge, if any
- (f) Grand Total F.O.R. CVSc., AAU, Guwahati, Price

Note: Vague terms like "packing, forwarding, transportation etc. extra" without mentioning the specific amount will not be accepted. Such offers shall be treated as incomplete and rejected. Bidders shall indicate their rates in clear/visible figures as well as in words and shall not alter/overwrite/make cutting in the quotation. In case of a mismatch, the rates written in words will prevail.

02. Validity (Both foreign & indigenous): Quoted rates must be valid for minimum 120 days.

03. Earnest Money (Both foreign & indigenous):

All firms are required to submit Earnest Money along with the Quotation. The EMD of unsuccessful bidders shall be returned after award of contract. All tenders received without EMD shall be summarily rejected.

Refundable earnest money deposit, amounting to minimum 2.5% of the total quoted value (rounded off to the nearest thousand rupees) through Demand Draft drawn **in favour of Dean, Faculty of Veterinary Science, Assam Agricultural University, Khanapara, Guwahati- 781022, Assam, India** payable at Guwahati, will have to accompany all quotations to be submitted. Quotations submitted without appropriate amount of earnest money are likely to be rejected.

Earnest money deposit will not bear any interest, and have to be in the form of demand draft only.

**04. PENALTY FOR DELAYED DELIVERY (for both foreign & indigenous):**

In case of supply order for the SCIENTIFIC EQUIPMENTS/ APPARATUS, the date of delivery should be strictly adhered to. In the event of delayed delivery, installation & commissioning i.e. after the expiry of the period as agreed by both the parties, the vendor shall be liable for a penalty deduction at a percentage of the value of the undelivered equipment subject to a maximum of 10% (ten percent) as detailed below:

@1% up to one week;

@2.5% up to two weeks;

@5% up to three weeks;

@10% for four weeks and above

For the purpose of this clause, part of the week is considered as a full week. In case of delayed delivery, the Chairman, Purchase committee, CVSc., AAU, Khanapara, Guwahati reserves the right not to accept the subject consignment.

**05. IN CASE OF INDIGENOUS SUPPLIES**, the goods should be insured against theft, loss or breakage during transit and insurance charges should not exceed 1% of the cost of material supplied, the rates of Sales Tax, Excise Duty etc. (as applicable) should be clearly indicated.

**07. PRE-INSTALLATION REQUISITES (Both foreign & indigenous):**

Pre-installation requisites (electrical/floor/space/air-conditioning etc.), if any should invariably be mentioned clearly. Installation/ Training will be the full responsibility of the supplier/ Indian Agent.

**08. GENUINE PRICING (Both foreign & indigenous):**

Vendor is to ensure that quoted price is not more than the price offered to any other customer in India to whom this particular item has been sold, particularly to other SAU/ IIT/ICAR Institutes and other Government Organization. Copy of the latest price list for the quoted item, applicable in India, must be enclosed with your offer.

**09. EXCISE DUTY:** The Institute is exempted from payment of Customs vide Govt. Notification No. 51/96-Customs, dated 23.07.1996 and /Central Excise Duty exemption in term of Govt. Notification No. 10/97-Central Excise dtd. 01.03.1997 with Regn.No. TU/V/RG-CDE (500)/2012, dated 14.09.2012.

**10. Entry Tax:** As per GST – [To be paid by CVSc, Khanapara, Guwahati, not by the vendor], wherever applicable, will be added while evaluating cost status of the concerned equipment to be supplied by vendors from outside the State of Assam.

**11. DELIVERY:**

(a) Delivery of goods at CVSc, Khanapara, Guwahati, will have to be maximum within 45(Forty-five) days from the date of issue of the Purchase Order.

(b) **SAFE DELIVERY OF GOODS:** All aspects of safe delivery shall be the exclusive responsibility of the vendor. At the destination site, the cartons will be opened only in the presence of CVSc, Khanapara, Guwahati user/representative and vendor's representative and the intact position of the seal for not being tempered with, shall form the basis for certifying the receipt in good condition.

(c) **NO PART DELIVERY:** Part shipment will not be allowed.

**12. Mode of Payment for Indigenous Purchase (For import items please refer 'Additional Terms for imported goods'):**

(1) Payment for Indigenous Purchases will be maximum within 45 days from the date of successful delivery and installation of goods at FVSc., AAU, Khanapara Guwahati, generally through A/c payee cheque. In case payment is to be made by DD, the Draft commission will be deducted from the bill amount.

Note: Please note as per Institute's norm advance payment is not allowed for any purchase.

**13. The offers (Both foreign & indigenous) submitted by telex/ telegram/ fax/ E-mail etc.**

shall not be considered. No correspondence will be entertained on this matter.

14. Late and delayed tender (Both foreign & indigenous):

Late and delayed tender will not be considered. In case any unscheduled holiday occurs on prescribed closing the next working day shall be the prescribed date of closing.

15. Conditional tenders not acceptable (Both foreign & indigenous): Conditional tenders shall not be accepted on any ground and shall be rejected straightway. In other word, printed conditions mentioned in the tender bids submitted by vendors will not be binding on CVSc, AAU, Khanapara. All the terms and conditions for the supply, payment terms, penalty etc. will be as those mentioned herein and no change in the terms and conditions by the vendors will be acceptable.

16. Specifications are basic essence of the product (Both foreign & indigenous): It must be ensured that the offers are strictly as per our specifications. At the same time it must also be kept in mind that merely copying our specifications in their quotation shall not make firms eligible for consideration. A quotation has to be supported with the printed technical leaflet/literature (wherever applicable) and the specifications mentioned in the quotation must be reflected/ supported by such printed technical leaflet/literature model quoted/tendered specifications should invariably be highlighted in the leaflet/literature for easy reference.

17. Enquiry during the course of evaluation not allowed (Both foreign & indigenous): No enquiry shall be made by the bidder(s) during the course of evaluation of the tender till final decision is conveyed to the successful bidder(s). However, the Committee/its authorized representative and office of CVSc., AAU, Khanapara, GUWAHATI can make any enquiry/seek clarification from the bidders. In such a situation, the agency shall extend full co-operation. The bidders can also be asked to arrange demo of the offered items, in a short period notice, as such the bidders have to be ready for the same.

18. The acceptance of the quotation(Both foreign & indigenous) will rest solely with the Dean, FVSc., AAU, Khanapara, Guwahati, who in the interest of the Institute is not bound to accept the lowest quotation and reserves the right to himself to reject or partially accept any or all the quotations received without assigning any reasons.

19. Force Majeure (Both foreign & indigenous): If the performance of the obligation of either party is rendered commercially impossible by any of the events hereafter mentioned that party shall be under no obligation to perform the agreement under order after giving notice of 15 days from the date of such an event in writing to the other party, and the events referred to are as follows: (I) any law, statute or ordinance, order action or regulations of the Government of India. (II) Any kind of natural disaster and (III) Strikes acts of the Public enemy, war, insurrections, riots, lockouts, sabotage.

20. Termination for default (Both foreign & indigenous): Default is said to have occurred:-

- If the supplier fails to deliver any or all of the services within the time period(s) specified in the purchase order or any extension thereof granted by FVSc., AAU, Khanapara, Guwahati

- If the supplier fails to perform any other obligation(s) under the contract. If the vendor, in either of the above circumstances, does not take remedial steps within a period of 30 days after receipt of the default notice from FVSc., AAU, Khanapara, Guwahati (or takes longer period in spite of what FVSc., AAU, Khanapara, Guwahati may authorize in writing), FVSc., AAU, Khanapara, Guwahati, may terminate the contract/ purchase order in whole or in part and forfeit the EMD as applicable. In addition to above, FVSc., AAU, Khanapara, Guwahati, may at its discretion also take the following actions:

FVSc., AAU, Khanapara, Guwahati, may procure, upon such terms and in such manner, as it deems appropriate, goods similar to the undelivered items/products and the defaulting supplier shall be liable to compensate FVSc., AAU, Khanapara, Guwahati, for any extra expenditure involved towards goods and services obtained.

21. Applicable Law (Both foreign & indigenous):

- (a) The contract shall be governed by the laws and procedures established by Govt. of India and subject to exclusive jurisdiction of Competent Court and Forum in Guwahati, India only.
- (b) Any dispute arising out of this purchase shall be referred to the Dean FVSc., AAU, Khanapara, Guwahati, and if either of the parties hereto is dissatisfied with the decision, the dispute shall be referred to the decision of an Arbitrator, who should be acceptable to both the parties, to be appointed by the Dean, FVSc., AAU, Khanapara, Guwahati,. The decision of such Arbitrator shall be final and binding on both the parties.

## 22. ADDITIONAL TERMS FOR IMPORTED GOODS

Following terms besides the fore mentioned terms will be applicable in case of foreign purchases:

All Items including for imported items, the code should be strictly F.O.R., Khanapara, Guwahati Campus of the University. Logistic expenditures towards Customs Duty, Clearing Charges, Transportation cost etc. should be included in the rate and shown separately.

► In case of Irrevocable Letter of Credit the following points should maintain strictly:-

- i) MAWB No. & HAWB No. & Forwarder's Name (To Whom Release order should be issued by the negotiating bank) should immediately informed by the Principal through Fax to the Buyer 10 (ten) days before dispatch of the equipment.
- ii) Bank Charges outside India, if required, will have to be borne by the Manufacturer/ Principal.

23. Rates: Quoted rates should be in CIF/CIP Kolkata terms and charges to be stated in the following break-ups:

- (a) Ex-works value
- (b) + Documentation & Handling Charge, if any
- (c) + Estimated Overseas Freight to be paid at actual against authentic documents and monetary receipt
- (d) + Estimated Overseas Insurance Charge to be paid at actual against authentic documents and monetary receipt (In case the firm holds open insurance policy, the Insurance Certificate relating to the consignment will have to be provided).
- (e) Total CIP/CIF Kolkata value.

24. After Sales Service: In case of imported items, foreign manufacturing firms should indicate facilities available for after sales service, detail address and contact number of their local representative in India without which their offers are liable to be ignored.

25. Delivery:

- (a) Delivery of goods at FVSc., AAU, Khanapara, Guwahati,, will have to be maximum within 95(ninety-five) days from the date of issue of the Purchase Order.
- (b) Delivery at Kolkata Airport only: As we do not have clearing agent in any other Airport/Seaport, delivery is to be made only at Kolkata.
- (c) While transshipment will be allowed, part shipment will not be allowed.

26. Payment:

- (a). Above \$10,000.00: By an irrevocable letter of Credit at CIF/CIP Kolkata value negotiable through any overseas branch of State Bank of India/ with unrestricted provision.
- (b) Below \$10,000.00 by FDD as given below:
- (i) 100% Payment Basis: On request by the supplier/s 100% payment by FDD will be made. In this case on receipt of your Order Acknowledgement an FDD will be established for total ordered value, thereupon, a Xerox copy of the FDD will be sent to you which will enable you to send the materials. On satisfactory receipt and acceptance of the materials or satisfactory installation and commission of the equipment the Original FDD will be sent to you.

Note: Please note FDD/LC will not be opened unless and until Letter of Acknowledgement in original is received at FVSc., AAU, Khanapara, Guwahati, directly from the principal (Even in case of firms having subsidiary office in India). The Indian agents are therefore advised to submit quotation after consultation with their respective principals).

27. Customs Duty: The Institute is generally exempted from payment of Customs Duty vide GOI Notification No.51/96-Customs, dated 23.07.96, with Regn. No. TU/V/RG-CDE (500)/2012, dated 14.09.2012. [CUSTOMS DUTY EXEMPTION CERTIFICATE WILL BE MADE AVAILABLE BY THE INSTITUTE IN REGARD TO QUOTES IN FOREIGN CURRENCY ONLY [ NOT AGAINST QUOTES MADE BY A FIRM IN INDIAN CURRENCY, UNLESS THE CONCERNED FIRM IS A FOREIGN HOLDING COMPANY WITH 'FDI' CERTIFICATE ISSUED BY THE MINISTRY OF FINANCE, GOVT. OF INDIA ].

28. Agency Commission: The percentage of ex-works value to be paid to Indian agent in equivalent to Indian currency as agency commission as applicable will have to be clearly stated in the quotation wherever applicable.

30. Country of Origin: While Country of Origin Certificate will not be insisted, the same however will have to be stated in the Original Invoice for payment through LoC.

31. LC Amendment: LC/FDD amendment charges due to mistake on the part of the supplier, if any, will have to be borne by the supplier.

Sd/-  
(B.N. Saikia)  
Dean,  
Faculty of Vety. Science  
Assam Agricultural University  
Khanapara, Guwahati-22

Annexure I

Sl. No.	Sl. No. in NIT	Name of the Item	Desired Specifications of NIT	Offered Specifications	Quoted Unit Price	AGST/CGST etc.	Extra charges, if any, for delivery at destination	Total amount	Other terms and conditions

**Sd/-  
Dean,  
FVSC, AAU, Khanapara**



LIST OF LABORATORY INSTRUMENTS AND APPLIANCES TO BE PURCHASED FOR THE YEAR 2018-19  
FACULTY OF VETERINARY SCIENCE, A.A.U., KHANAPARA, GUWAHATI-22

Sl. No.	Name of the instruments	Specification
1.	Stainless Steel incubator (30-70°C)	<ul style="list-style-type: none"> <li>• Bacteriology incubator 30 to 70 ° C temperature - natural convection to avoid drying - in stainless steel for optimum bacterial decontamination - inner glass door -- maximum number of racks 7 - temperature range (Environment + 5 ° C) to 70 ° C</li> <li>• Approximately 250 litres volume - internal length 80 cm - depth internal x inner height 50 x 64 cm - exterior height x outer length outer depth 92 x 95 x x 65 cm - net weight approx 90 kg □</li> <li>• uniformity at 37 ° C + /-- 0.4 ° C - number of shelves supplied in standard 4- Max load total 80 kg - maximum load per shelf 30 kg</li> </ul>
2.	Electroejaculators	<p>The item consist of a rectal probe and a power control system which gives a series of short low-voltage pulses and ejaculation is triggered.</p> <p><b><u>Specification:</u></b></p> <ul style="list-style-type: none"> <li>• Manually adjustable pulse/pause ratio.</li> <li>• Availability of different sizes of probes depending on the animal size and age.</li> <li>• For bulls two different probe sizes should be available: Approx 0: 2□/5.08 cm; length: 32 cm; 3 electrodes- 0:2.5□/7cm; length: 40 cm; 3 electrodes</li> <li>• For rams approximate probe size: 0:1□/2.5 cm; length: 15:5cm;+ 3 electrodes</li> <li>• For dogs and cats: two different probe of convenient sizes: approx. 0:3.8□/0.95 cm; length: 6.35 cm; 3 electrode and 0: 1.2□/1.27 cm length: 6.35 cm; 2 electrodes</li> </ul>
3.	ELISA Plate Reader	
4.	Xerox Machine	<p>Speed: 18ppm with print, copy and scan</p> <p>Zoom: 25% to 400%</p> <p>Multiple copy: 1 to 999</p> <p>Power consumption: 415W Max</p> <p>Paper size: A3, A4, A5, A6, B5, Letter</p> <p>Paper Tray: 1 x 300 sheets + 100 sheets bypass</p>
5.	Semi-Automatic Blood chemistry analyzer	Benchtop, End point method, For Kinetic test, number of sample run at a time ( upto 200 per hour) with minimum sample size.

6.	Microtitre Plate Reader.	<p>Plate Types: 96 well  Optical System: 8 channel  Transmission: Photometer  Light Source: Digital controlled LED lamps, wavelength specific Photodetector: 8 Silicone Photodiodes  Wavelength Range: 340-750nm (special wavelengths up to 900nm)  Resolution: 0.1 mOD (0.0001 OD)  Indication range: 0.000- 4.000 OD (Abs)  Accuracy: Better than <math>\pm 1\%</math> and <math>\pm 0.005</math> OD up to 2.5 OD (any wavelength)  Linearity: <math>\leq \pm 0.05\%</math> and <math>\pm 0.005</math> OD from 0.1 to 1.5 OD (Any wavelength) <math>\leq \pm 0.75\%</math> from 1.5 to 2.5 OD (400nm-750nm)  <math>\leq \pm 0.75\%</math> and <math>\pm 0.005</math> OD from 0.1 to 2 OD (340-400 nm)  Reproducibility: better than <math>\leq \pm 0.3\%</math> at 1 OD (any wavelength) better than <math>\leq \pm 0.5\%</math> at 2 OD (400-750nm)  Measurement Mode: Single and Dual wavelength linear scan (30 points/well) for agglutination etc.  Reading Speed: 5 seconds (kinetic interval, single wavelength)  10 seconds (96 wells, dual wavelength)  Wavelengths: 4 wavelengths onboard (405, 450, 492 and 620 nm) upto 6 possible (340-750 nm).  PC-Interface: USB 2.0 (USB 1.1 compatible)  PowerSupply: external power adapter 100-240V, 50-60 Hz (autosensing), 24V DC, 2.5A</p>
7.	Muffle Furnace	Rectangular, Digital Controller
8.	Laboratory Willey Grinder	
9.	Digital Balance	<p>Maximum Capacity: 3 kg.  Readability: 0.01g</p>
10.	Automatic Nitrogen/Protein Estimation System	<p><b><u>A. Automatic Digestion System</u></b></p> <ul style="list-style-type: none"> <li>• Six Place 250 ml capacity PC Compatible Block Digestion System with all essential accessories</li> <li>• TFT Graphic Touch Screen Display with unique wireless mouse to operate at a distance of 1-2 mtrs.</li> <li>• Should have 2 Ports in the motherboard one for PC connectivity another for direct connection to Remote Mouse/Datalogger/ Memory stick</li> <li>• Integrated autosequencing time/temperature domain of 70 programs and 12 sequencing steps</li> <li>• Inbuilt mini printer for print options to document preprogrammed settings and logged datas</li> </ul>

		<ul style="list-style-type: none"> <li>• PC software performs Live graphical representation of time /temperature gradient on touch screen display</li> <li>• Direct USB Port for PC with live process view on touch screen display of various stages with print options,</li> <li>• Remote control module for wireless data monitoring, control and transfer to PC at a distance of 10 feet . The Entire display screen of Controller should wirelessly appear in the PC/ Laptop of user, to monitor &amp; control from his work table.</li> <li>• Memory stick for data storage with separate port in mother board apart from PC Port</li> </ul> <p><b><u>B. Scrubber System</u></b></p> <ul style="list-style-type: none"> <li>• <b>Four stage acid neutralization scrubber.</b></li> <li>• Non corrosive centrifugal inbuilt magnetic suction pump with inbuilt self priming feed pump for water recirculation,</li> <li>• FRP Tank, Containers for Alkali and Water, Electrical Requirement: 230v/50Hz Mains.</li> </ul> <p><b><u>C. Automatic Distillation System</u></b></p> <ul style="list-style-type: none"> <li>• <b>Autosequencing Microprocessor based PC Compatible Distillation System</b> with in-built software with 50 Predefinable User Storage Auto Sequence Programmes</li> <li>• Automatic sequencing with auto Intelligent run of programmable steps which include Automatic Dilution, Auto KMNO<sub>4</sub> addition, Automatic Alkali Addition, Automatic Steam injection, Process over indication with alarm with delay time features, Automatic Titration Connectivity feature for future upgradation with complete automatic safety features</li> <li>• Microbrilliant distillate control with adjustable sensor,</li> <li>• Two line Alpha numeric Digital LCD Display,</li> <li>• Auto sensing of “NO WATER” condition in condenser &amp; steam generator with alarm &amp; signal to alert user.</li> <li>• Auto deactivation of operation after warning in case of user non availability</li> <li>• Enables Automatic monitoring and measuring of high temperature in distillate with sensor for auto warning signal and safety alarm to alert user to control distillate temperature. Temperature displayed digitally.</li> </ul>
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		<ul style="list-style-type: none"> <li>• Auto reagent Level Sensor with Alarm for Reagents, Stainless steel non corrosive steam Generator</li> <li>• Automatic water level monitoring &amp; Perilstatic pump for reagents addition</li> <li>• Electrical Requirement - 220 - 230V/50Hz.</li> </ul> <p><b>SPECIAL CONDITION:</b> Company should have good performance track record of at least 10 years with references of users of similar equipment. The original Manufacturers of laboratory equipments should have at least Rs. 2 crore per annum turnover in the past 3 years towards financial capability. The instrument shall strictly confirm to the specifications with relevant brochure. The company should be reputed supplier should not be blacklisted or should not have any adverse remarks in the past. Spares should be made available for minimum period of <b>10</b> years after the warranty period by the supplier.</p>
11.	Incubator	<p><b>Incubator Universal (Memmert Type)</b> outer body made of thick Mild Steel Sheet duly Powder coated. Double walled construction with “2½ gap filled with best quality glass wool. Inner chamber made of Stainless Steel. Heating element are provide at bottom and two sides. Temp. Range from +5° Ambient to 80°C ± 2°C fitted with thermostat controller. Fitted with main switch pilot lamp, temp controller knob, perforated shelves and workable on 220 Volts 50 Hz AC mains.</p> <p><b>Size;600x450x450mm,Cap-125Ltrs</b></p>
12.	Gerber centrifuge	Gerber centrifuge with rotor to accommodate 12 butyrometers
13.	LED Surgical light	<ul style="list-style-type: none"> <li>• Shadowless</li> <li>• Intensity: 80,000 ± 10%</li> <li>• Size of Light Field: 12-30 cm</li> <li>• Colour Temperature: 4000-5000 K</li> <li>• Colour Reduction Index: 93 RA</li> <li>• Led Life: &gt;50000 Hrs.</li> <li>• Number of LEDs: 42</li> <li>• Diameter of Light: 500mm</li> <li>• Power Supply: 220V/50Hz AC</li> <li>• Focusing: Adjustable</li> </ul>

		<ul style="list-style-type: none"> <li>• Battery Backup: Optional</li> </ul>
14.	Veterinary O.T Table Hydraulic	<ul style="list-style-type: none"> <li>• Hydraulic</li> <li>• Height: adjustable</li> <li>• Width: 2-3 ft</li> <li>• Length: 5-6 ft</li> </ul>
15.	Colour Doppler Ultrasound machine	<ul style="list-style-type: none"> <li>• Universal digital beam former accepting routine phased array sector, convex, linear probes.</li> <li>• Should have high resolution 21.5 inch medical grade flat panel monitor with IPS technology and articulating arm and with resolution of 1920*1080 pixel.</li> <li>• height-adjustable control panel with lock lever</li> <li>• 10.4 inch touch screen(resolution 1024*768)</li> <li>• Should be more than 172000 processing channels with parallel quad beam processing</li> <li>• System Should have 2D mode line density of minimum 512 and system dynamic range to be above 225dB</li> <li>• With B, 2B, 4B, speckle reduction imaging, compounding with 3 steps, dynamic tissue optimization, M-mode, colour M mode, anatomical M mode, PW, HPRF and colour Doppler with power Doppler. Alternate, line and phase inversion tissue harmonics should be available on convex and phased array probes. Steering on colour/ PW mode on linear probe should be available. Trapezoidal image.</li> <li>• Standard cine memory providing 2700 frames on 2D mode and up to 30 sec Doppler cine</li> <li>• Should be able to store at least 128 user specific image presets.</li> <li>• Advance spatial compounding imaging with upto 7 steering angles available on linear transducer, 5 available on curved array transducers</li> <li>• Should perform upto 2D frame rate 499 fps and colour Doppler frame rates upto 188 fps</li> <li>• Supports both colour DTI and spectral DTI functionality and includes a quantification package</li> <li>• The system should reoptimises and rescans the selected region to actually increase the acoustic information content of the image upto 10 times. High density (HD) zoom function obtains a region of interest with increased detail resolution.</li> <li>• Ability to enlarge areas of interest with no loss of detail.</li> <li>• increased boundary resolution of cystic regions, vessels and hypoechoic regions</li> </ul>

		<ul style="list-style-type: none"> <li>• System should be able to construct free hand 3D images</li> <li>• System should have inbuilt hard drive of 500GB or more and have facilities to store atleast 300000 images and 2 mins of clip store, should have the facility of performing calculations and annotations on stored images. System should have inbuilt CD/DVD/USB flash drive writer for image transfer. The offered system should be dicom ready</li> <li>• The system should have veterinary software with inbuilt age detection software.</li> <li>• The system should be US FDA and European CE approved</li> <li>• The system should be ISO certified</li> <li>• Adult cardiac probe 2.0-4.0 MHz (compounding and harmonic imaging should</li> </ul>
16.	Stereo Microscope without Camera	<p>Eye piece Magnification range Provision of bulb and light arrangement. Good optical system Observation tube High quality objective lens Dimension (WxDxH) of standard size Optical system Stand Dust cover</p>
17.	Electrophoresis Unit Horizontal	<p>Dimension: 10 x 112cm Buffere vol.: 400-500ml Max. sample capacity: 80 or more Electrod separation: 14.5cm Recommended Voltage: 75-125V Horizontal unit, Gel casting Tray, combs for 6/8/10/16 samples 1mm, Coloured Loading strips 1hr. backup UPS</p>
18.	Microprocessor Based pH Meter	<p>Highlights: Large LCD with dual display pH, Range: -2.00 to 16.00pH, *Resolution: 0.01pH, *Accuracy: + 0.01pH *Cal.points: upto 5 Temperature *Range: 0.0 to 100.0degC/32.0 to 212.0degF, *Resolution: 0.1degC/0.1degF *Accuracy: + 0.3degC/+ 0.5degF (0 to 70degC), ORP Range: +2000mV *Resolution: 0.1mV(+199.9mV);1mV beyond</p>

		<p>*Accuracy: +0.2mV(+199.9mV), Meter features, *Power-9V DC adapter,1.3A (100/240VAC, SMPS)Dimension</p> <p>*Meter: 17.5x15.5x6.9;650g</p> <p>*Boxed: 30.8x23.5x12.4cm;1800g</p> <p>Complete with electrode stand, temperature probe, stirrer probe, pH buffer, Solution kit.</p>
19.	SPINWIN <sup>™</sup> MC-00 Micro Centrifuge	
20.	Water Bath Double-walled (Thermostatic Controlled)	<p>Inner chamber is made of thick gauge S.S. 304 grade sheet, with minimum joint. STD/GMP. Outer MS with Powder Coating only for - STD model.</p> <ul style="list-style-type: none"> <li>• Outer made up of S.S. 304 grade sheet only for GMP model</li> <li>• Specially made extra long heating elements for high heat dissipation, uniformity &amp; longer life.</li> <li>• The gap between the two walls is filled with glass wool.</li> <li>• Lid is made up of S.S. 304 with 6 holes &amp; 12 holes of 3”dia.</li> <li>• Provided with indicating lamps and on/off switch.</li> <li>• Temp range is above (Ambient to +5 to 99 °C)</li> <li>• Operation on 240 volts AC</li> </ul>
21.	Refrigerated Micro-centrifuge	<p>Microprocessor control of spinning parameters with LCD display</p> <p>Error indication system</p> <p>Prefreezing mode</p> <p>Maintenance free, brush-less drive motor</p> <p>Compressor overloading protection system</p> <p>Full metal case and stainless steel chamber</p> <p>Speed range: 300-25,000 g</p> <p>Max. Capacity:80ml</p> <p>Temperature range: -10 to 40 °C</p> <p>Demension: 564 x 298 x 280 mm</p> <p>Angle Rotor Head for 1.5ml with seal lid</p> <p>Swing rotor Head for 5ml with sealed lid</p>
22.	Voltage stabilizer	<p>2KVA (120V-270V)</p> <p>3KVA (120V-270V)</p> <p>5KVA (120V-270V)</p>
23.	Digital Micro Pipette	Digital Volume Display

		UV Resistant body Autoclavable Chemical Resistant Volume 0.1- 2 ul
		Digital Volume Display UV Resistant body Autoclavable Chemical Resistant Volume 0.5- 10 ul
		Digital Volume Display UV Resistant body Autoclavable Chemical Resistant Volume 10- 100 ul
		Digital Volume Display UV Resistant body Autoclavable Chemical Resistant Volume 100- 1000 ul
24.	Microwave Oven	Capacity 20 L Turntable available Digital Display Timer Cavity : Stainless Steel Auto Protection Input Voltage: 210 - 240 V
25.	Vortex Shaker	Speed Control Compact, rugged Construction. Heavy Metal Base & Rubber Feet Choice of Continuous & Touch Mode. Variable Speed Control. Maximum Speed 3000 RPM.



		One Hand Insert, Micro Tube Insert & Cup Attachment.
26.	Digital Intraoral X-Ray Machine	<ul style="list-style-type: none"> <li>➤ X-Ray Generation :300 kHz very high frequency</li> <li>➤ Focal Spot : 0.7 mm CEI</li> <li>➤ Tube Current: 60 kv, 70 kv</li> <li>➤ Mounting Options: Wall (Horizontal right and left or vertical), ceiling, mobile, floor, Irix.</li> <li>➤ Arm Lengths : Short (170 cm/ 67 in) Standard (188 cm/ 74 in) Long (205 cm/81 in)</li> <li>➤ Type of Timers: Portable (Standard), separate (option), or on the wall apply (Irix).</li> <li>➤ Timer setting: kv, child/ adult/ large, tooth/bitewing/occlusal, film/sensor/ manual programs</li> <li>➤ Options and Accessories: Synchronization link with RVG system, collimators (size A, B, C), long cone (30 cm/ 12 in).</li> <li>➤ Emitted Dose: Automatically displayed after each exposure</li> </ul>
27.	RVG - Radiovisiongrphy	<ul style="list-style-type: none"> <li>➤ True image resolution :16 lp/mm</li> <li>➤ Technology- Super CMOS</li> <li>➤ Connection- USB 2.0-high speed.</li> <li>➤ Sensor size-1</li> <li>➤ Availability of all purpose sensor</li> <li>➤ Outside dimentions-27.6 x 37.7 mm</li> <li>➤ Dimensions of active area- 22.2 x 29.6 mm</li> </ul> <p>Sensor plate thickness- 7.3 mm</p>
28.	Ultrasonic Scaler Machine with Accessories (Peedo forceps, Adult forceps, Elevator set and PMT)	<p>DENTAL SCALER UNIT</p> <p>(i)Ultrasonic Scaler Machine Detachable and Autoclavable handpiece. Works on 3 modes: General, Perio &amp; Endo. Automatic Frequency Tracking. With 5 Titanium Scaling Tips (3S, 1 P, 1 Stain Removal) &amp; 1 Endo Attach. Power Inputs: 100V to 240V-50 Hz/60Hz 1.2A (Max) Output Power: 3w to 20W. Frequency : 28 kHz + 3 kHz. Dimension: 188 mm x 159mm x 81mm</p>

		<p>Main unit weight: 0.66 kg</p> <p>(ii) Peedo Forcep <input type="checkbox"/> Set of 7 German Stainless, ISO/Ce marked</p> <p>(iii). Adult Forcep: <input type="checkbox"/> Set of 12 German Stainless, ISO/Ce Marked</p> <p>(iv). Elevator Set: <input type="checkbox"/> Set of 13 German Stainless, ISO/Ce Marked</p> <p>(v). PMT Set: German Stainless, ISO/Ce Marked</p>
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