



**SRI VENKATESWARA VETERINARY UNIVERSITY**  
COLLEGE OF VETERINARY SCIENCE, PRODDATUR - 516 360

Lr.No.2330/B/2015,

Dated: 09.10.2015

**TENDER NOTICE**

***Sealed Tenders are invited for supply of equipment and furniture. The specifications of equipment, furniture terms and conditions are available in the tender form which may be obtained from the College of Veterinary Science, Proddatur in person / by post only on payment of non-refundable amount of Rs.1,000/- + Rs.100/- (for inland postage) by crossed demand draft drawn in favour of Administrative Officer, College of Veterinary Science, payable at Proddatur. Tender forms will be sold from 12.10.2015. Technical bid forms and the financial bid forms should be submitted in separate sealed covers and should reach this office on or before 17.11.2015, 10:30 AM. It will be opened on 17.11.2015, 11:00 AM. The committee reserves right to accept / reject tenders without assigning any reasons. They may visit the University website [www.svvu.edu.in](http://www.svvu.edu.in) for details.***

Ph.No. 08564 – 248076

ASSOCIATE DEAN

**Total No. of Pages in tender document : \_\_\_\_\_ Pages**

**Tender Form No. \_\_\_\_\_**

# ***TENDER FORM***

## ***For supply of Equipments and Furniture***

**(Ref. No : Lr.No.2330/B/2015, Dated: 09.10.2015 of Associate Dean,  
College of Veterinary Science, Proddatur)**



**COLLEGE OF VETERINARY SCIENCE  
SRI VENKATESWARA VETERINARY UNIVERSITY  
PRODDATUR - 516 360 YSR DISTRICT  
ANDHRA PRADESH**

No: \_\_\_\_\_

**TENDER APPLICATION FORM (TECHNICAL BID)**

1. Item quoted for (Please indicate correct  
S.No & Name of item as in Annexure – A) :
2. Name and Address of the Organization  
(Phone, Fax and E-mail address) :
3. Name and Designation of Head of the Organization :
4. Year of incorporation :
5. APGST / CST Number :
6. TIN Number :
7. I.T. PAN No in the name of the firm only :
8. Manufacturer / Authorized Dealer of firm  
(Enclose Authorization certificate copy) :
9. Number of qualified service personnel :
10. Response generation (Immediate / 1 day / 2 days) :
11. No. of orders taken up so far (Enclose User(s) List/  
Preferably copy of purchase order) :
12. In case of urgent repairs, please indicate the  
Correct contact persons Name and Phone Numbers :
13. Bank details of the firm (Name of the bank-----, Branch Address-----)

A/C no.----- IFSC CODE-----  
(ENCLOSE COPY OF THE 1<sup>ST</sup> PAGE OF BANK PASS BOOK/ CANCELLED CHQ)

14. Whether Photostat copies of all the documents

Prescribed in Terms and Conditions Enclosed :

15. **EMD Particulars**

**: EMD Amount:**

**DD No. \_\_\_\_\_, Date \_\_\_\_\_**

**EMD should be enclosed with Financial Bid only.**

Date:

SIGNATURE OF THE TENDERER

SEAL :

**NOTE:**

- ◆ Tender application forms without Photostat copies of all documents prescribed in terms and conditions will not be considered.
- ◆ Technical catalogues for quoted equipment should be enclosed. Tenders without technical literature of equipment will be summarily rejected.

**ANNEXURE – A**  
**(Annexure to Tender Form)**

**List of Equipments & Furniture with minimum specifications**

<b>. No</b>	<b>Name of the equipment</b>	<b>Specifications</b>	<b>Approx. Quantity</b>
1	<b>OPERATION TABLE FOR SMALL ANIMALS (SS TOP) HYDRAULIC/ PINION TYPE</b>	<ol style="list-style-type: none"> <li>1. Dimension: 1880mm x 500mm,</li> <li>2. Adjustable Ht.: 790-1040mm,</li> <li>3. Trendelenburg and reverse trendelenburg: 30°±3</li> <li>4. Lateral tilting position: 20°</li> <li>5. Lifting position 250mm±12mm</li> <li>6. Flex position;90°</li> <li>7. Reflex position 220°</li> </ol> Head plate 20° up and 90° down	02
2	<b>X-RAY UNIT TROLLEY MODEL C-ARM FLUOROSCOPE WITH SPOT FILM VIDEO RECORDING AND IMAGE FREEZING FACILITY</b>	<p>A Mobile C-Arm Image Intensifier suitable for use in Operation Theaters for Surgical procedures should be provided.</p> <p>A) <u>IMAGE INTENSIFIER:</u></p> <ul style="list-style-type: none"> <li>↔ Image Intensifying Tube: 9 Inches, Triple Field.</li> <li>↑ CCD Camera: High Resolution Compact CCD Camera.</li> <li>↔ Monitor (2 Nos): 2 Nos. 19” medical grade monitors along with trolley should have features like:</li> </ul> <p>B) <u>C-ARM MOVEMENTS:</u></p> <ol style="list-style-type: none"> <li>1. Rotation: ± 180 Degrees.</li> <li>2. Up/Down Movement Motorized: At least 400mm.</li> <li>3. Horizontal Travel: 200 mm or more</li> <li>4. Arc Orbital Movement: At least 110 Degrees or more.</li> <li>5. Wig Wag: ±12.5 Degrees.</li> <li>6. Source to Image distance should be more than 900mm.</li> <li>7. Depth of “C” should be 600 mm</li> </ol> <p>C) <u>X-RAY GENERATOR:</u></p> <ul style="list-style-type: none"> <li>↔ High Frequency (50 KHz)</li> <li>↑ Output power should be at least 5KW or more</li> <li>↔ Rotating Anode Tube of focal spot 0.3mm &amp; 0.6mm.</li> <li>→ Radiographic mA: 60mA or more</li> <li>↑ Fluoroscopic mA: 0.1- 5mA (Normal Mode), Pulsed Fluoro for High definition Fluoro should be more than 10 mA.</li> </ul> <p>D) <u>CONTROL PANEL:</u></p> <ul style="list-style-type: none"> <li>▲ LCD Display for following parameters should be provided: Display on which KV, mAs, Fluoro Time, I.I ZOOM and Body part, View of Radiography are displayed on Wide angle LCD.</li> </ul>	01

		<ul style="list-style-type: none"> <li>◆ APR (Anatomical Programming) in Radiography Mode i.e. pre- selected parameters are programmed in the machine as per the Body Part selected/to be exposed should be provided. APR should cover Head, Chest, Abdomen and extremities.</li> <li>◆ Exposure Modes: Continuous and Pulsed Fluoroscopy up to upto30 FPS.- Radiographic Mode (cassette exposure) up to 120 KV &amp; more than 80mA.</li> <li>◆ Timer (Fluoroscopic): Fluoroscopic cumulative timer of 5 minutes with beep.</li> <li>◆ Tube safety Sensor: X-Ray Tube head Temperature Sensor for Thermal Safety cut off.</li> <li>◆ Switches: - Mode Selector Switch. - Collimator Control Switches. - I.I. Zoom Selection Switches. - Exposure initiation Switches for Fluoro/ Radiography.</li> <li>◆ ADRC MODE: Auto Dose Rate Control for consistent image quality.</li> <li>◆ Self Diagnostic: Various system interlocks should be displayed on LCD screen for effective and prompt troubleshooting.</li> </ul> <p>E) <u>MEMORY SYSTEM</u> should include the following: -</p> <ul style="list-style-type: none"> <li>◆ Image plus software</li> <li>◆ 2 LCD monitors system for LIH, LIVE and stored images.</li> <li>◆ Permanent image storage capacity of approx. 10,000 images.</li> <li>◆ 50 temporary image storage for quick review.</li> <li>◆ DVD writer to store images on CD/DVD for giving it to patients.</li> <li>◆ Flicker free images on a flat screen.</li> <li>◆ 32 bit image storage for excellent resolution.</li> <li>◆ Image sharpening (real-time or stored images).</li> <li>◆ Image rotation of 15° step.</li> <li>◆ Image EMBOSS for three-dimensional relief presentation.</li> <li>◆ Dynamic contrast control (Gray Level Stretch).</li> <li>◆ Negative images (Gray Level Invert).</li> <li>◆ Frames averaging for smoothing of Images. (Real time) 256 frames.</li> <li>◆ 32 bit at 800 x 600 resolutions.</li> <li>◆ Cine loop of 500 frames (Multiple cine loops can be stored permanently).</li> <li>◆ Variably frame rate of 2, 5, 10, 15 &amp; 27 frames per second for cine loop.</li> <li>◆ Image orientation: Left/ Right – Top/ Bottom.</li> <li>◆ Patient's Name, operator name, hospital name, date and time display on monitor.</li> </ul>	
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		years of warranty and maintenance ③ The company should have proven trade record in Govt. Sector.	
3	<b>HPLC FOR SEMI-PREPARATIVE AND ANALYTICAL USE</b>	<input type="checkbox"/> High Pressure binary gradient two pump integrated System. Which can be upgradable to low pressure gradient quaternary pump with automatic rinsing kit and low-pressure gradient valve. <input type="checkbox"/> The flow rate should be minimum of 0.001 to 10 ml/min or more. <input type="checkbox"/> Flow Precision: $\leq 0.1\%$ RSD or better. <input type="checkbox"/> Flow Accuracy: 1.0% or better <input type="checkbox"/> Operating pressure: 5000 psi or better. <input type="checkbox"/> The pump should be corrosion resistant and applicable to wide range of pH and solvents. <input type="checkbox"/> Should have option for programming for fast & slow gradients <input type="checkbox"/> Should have possibility to operate in various gradient modes. <input type="checkbox"/> Should provide suitable FRITS/ filter <b>Degasser:</b> Channel membrane degasser <b>Injector:</b> Manual Injector with 50 $\mu$ L Loop or more. With injector mounting kit and suitable syringe <b>Column Oven with cooling facility (1 No.) :</b> Should accommodate 2 columns, mixers and 2 manual injectors <b>Column</b> <input type="checkbox"/> Suitable guard columns <input type="checkbox"/> C18 5 $\mu$ m 4.6 x 250 mm <input type="checkbox"/> C8 5 $\mu$ m 4.6 x 250mm <b>Photodiode Array (PDA) Detector</b> <input type="checkbox"/> The detector should have wavelength range of 190-800 nm or more with wavelength accuracy of $\pm 1$ nm <input type="checkbox"/> Wavelength Repeatability: $\pm 0.1$ nm <input type="checkbox"/> Should be operable at noise level $1.0 \times 10^{-5}$ AU or better <input type="checkbox"/> Path-length : 10 mm or better <input type="checkbox"/> Flow cell Design and cell volume: 10 $\mu$ L or better and should have minimum RI effect <input type="checkbox"/> Deuterium lamp should be used as light source <b>Fluorescence Detector:</b> <input type="checkbox"/> Wavelength range between 200-650 nm or better <input type="checkbox"/> It should have band width of 15nm to 20 nm and wavelength accuracy of $\pm 3$ nm or better <input type="checkbox"/> It should provide sensitivity $> 1000$ (Raman Spectrum of H <sub>2</sub> O) Cell volume should be $\leq 12$ micro liter <input type="checkbox"/> Detector should have pressure limit between 100 to 400 psi <input type="checkbox"/> Light Source: Hg/Xe lamp <b>Liquid chromatography Software</b> <input type="checkbox"/> Central control of each system. Should have option for manual Integration <input type="checkbox"/> Should have option for versatility for multitasking without multiple software packages <input type="checkbox"/> Should have option for data integrity along with advanced security measures	<b>01</b>



		<p><b>Accessories:</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Reservoir tray (1 No.)</li> <li><input type="checkbox"/> Sonicator (1 No.)</li> <li><input type="checkbox"/> PC &amp; PRINTER (Suitable with latest configuration) (1 No.).</li> <li><input type="checkbox"/> Solvent and sample filtration kit with Oil free vacuum pump (1 No.).</li> <li><input type="checkbox"/> Online UPS 5 K.V. suitable for minimum 3 hours backup (1 No.).</li> <li><input type="checkbox"/> Ambient temperature facility for optimal function of HPLC system (1 No.).</li> <li><input type="checkbox"/> Annual complete system Maintenance: for two years</li> <li><input type="checkbox"/> Should provide training to four staff members on the operation and maintenance of the HPLC system</li> <li><input type="checkbox"/> Note: The HPLC system should be upgradable for future Mass Spectrophotometry (MS) applications.</li> </ul> <p>Optional Items Auto sampler RI Detector Indexing Range 1to 1.75 or better RIU</p>	
4	<p><b>FIBER OPTIC ENDOSCOPE For Small Animals ( FLEXIBLE)</b></p>	<p>Video Endoscope. Veterinary video endoscope PV-SG 28-140 Colour system PAL, sheath diameter 7.9mm Working channel 2.8mm, working length 140cm. Deflection up and down 210°/100°, left /right 210°/100°, field view 120°, depth field 2-200mm. consisting of 60714PKK veterinary video endoscope basic unit with case, ETO cap and instruction manual. LX Leakage tester, DA rubber leaflet valve, package of 10, SS irrigation tube, for working channel, YS Y-irrigation tube, SRV cleaning valve, silverscope, SAV suction valve, Silverscope series, instrument oil 50ml, Cleaning brush, flexible, 5mm, 230cm, BS waterbottle, 250ml, Irrigation bottle holder, SSV Air/Water valve, Silverscope, SF protective film, Video connecting cable, Telecam for use with KS camera systems.</p> <p><b>Accessories for use with video endoscope</b> Biopsy forceps, double spoon, oval jaws, multiple teeth working length 200cm, diameter 2.2mm Grasping forceps reusable, flexible, serrated, with 1X2 teeth, diameter 2.3mm, working length 200cm, for use with working channels as of size 2.8mm Injection needle, tip retractable length 200cm, diameter 2.2mm Cytology brush with handle and tube length 200cm, diameter 2.2mm, Polypectomy snare complete with handle, large, length 200cm, diameter 2.4mm Foreign body basket, reusable opening 14X10cm diameter 2.4mm, with 6 wires, working length 200cm Mouth piece <b>Light source</b> Cold light fountain Xenon 100SCB including integrated insufflation pump, power supply 100-240 VAC, 50/60 Hz, consisting of cold light fountain XENON 100SCB – 400 A mains cord. Xenon lamp capacity 100W</p>	01

		<p>Lamp life approx. 500h  Colour temperature approx. 6000K  Pump pressure levels 3  Max. Pressure 0.5 bar  Max. Flow rate 5 L/min  Operating conditions  Operating temperature 0° - +40°,  Humidity 30-90%  Power supply – 230 VAC – 10% 50/60Hz  Dimensions (wxhxd): 305X110X380mm  Weight 5.4 kg  Mode of operation: continuous  Xenon spare lamp, 100 watt, 15 volt  <b>CAMERA SYSTEM</b>  Veterinary video camera, Camera control unit  Colour system PAL/NTSC  Power supply, 100-240 VAC, 50/60 Hz incl  Electronic fiberscope filters,  Veterinary video camera control unit B N C connecting cable, length 180cm  Connecting cables for connecting video-printers.  Video output – composite signal to BNC socket  S-Video signal to 4-pin mini DIN socket (2x)  Control output 3.5mm stereo jack plug (ACC1, ACC2)  Control unit (CCU), dimensions 305X88x254mm (wxhxd)  Weight 2.7kg  Power supply: 100 – 240 VAC, 50/60HZ  Protection class 1/BF  20inches LCD TV – trolley and recording system.</p>	
5	<b>TRACHEOSCOPE FOR SMALL ANIMALS WITH LIGHT SOURCE.</b>	<p><b>Broncho-Fiberscope, 3.7mm</b>  Deflection 180° /90°  Direction of view 0°  Field of view 90°  Working channel inner diameter 1.5mm, distal end outer diameter 3.7mm  Working length 54cm  Total length 82cm , for routine bronchoscopy and post rhinoscopy of cats and small dogs.  Accessories : pressure compensation cap, for ventilation during gas sterilization  XL leakage tester, with rubber ball and manometer  BB Case  AL cleaning brush, for working channel diameter 1.2 – 1.8 mm length 150cm.  Veterinary specific dimensions to include extended length and reduced diameter facilitating use in a wide variety of patient sizes.  Large viewing angle and movable distal tip  Working channel for the use of operating instruments, suction, insufflation or irrigation.  Water proof, fully immersible for cleaning and disinfection  Sterilisable with Eto and FO gas, STERIS and STERRAD  <b>Broncho-Fiberscope, 3.0mm</b>  Instrument channel 1.2mm  Direction of view 0°  Angle of view 90°  Working length 100cm</p>	01

		<p>Outer diameter 3.0mm</p> <p>Accessories : A case, Pressure compensation cap, XL Leakage tester, AL Cleaning brush</p> <p>Veterinary specific dimensions to include extended length and reduced diameter facilitating use in a wide variety of patient sizes.</p> <p>Large viewing angle and movable distal tip</p> <p>Working channel for the use of operating instruments, suction, insufflation or irrigation.</p> <p>Water proof, fully immersible for cleaning and disinfection</p> <p>Sterilisable with Eto and FO gas, STERIS and STERRAD</p> <p><b>Broncho-Fiberscope, 5.2mm</b></p> <p>Instrument channel 2.3 mm</p> <p>Direction of view 0°</p> <p>Angle of view 110°</p> <p>Working length 85cm</p> <p>Outer diameter 5.2 mm</p> <p>Accessories : A case, Pressure compensation cap, XL Leakage tester, AL Cleaning brush, Rubber lip valve, disposable package of 20, CB suction valve, CD cleaning adapter for valve housing, Double stopcock adaptor.</p> <p>Veterinary specific dimensions to include extended length and reduced diameter facilitating use in a wide variety of patient sizes.</p> <p>Large viewing angle and movable distal tip</p> <p>Working channel for the use of operating instruments, suction, insufflations or irrigation.</p> <p>Water proof, fully immiscible for cleaning and disinfection</p> <p>Sterilisable with Eto and FO gas, STERIS and STERRAD</p> <p>Accessories for use with Broncho-Fiberoscope</p> <p>Cleaning brush, flexible, for 1.6-2.3mm instrument channel</p> <p>working length 150 cm,</p> <p>mouth piece,</p> <p>Biopsy forceps, double action jaws, flexible 1.0 mm, length 110cm,</p> <p>Grasping forceps, double action jaws, flexible 1.0 mm, length 110cm</p> <p>Brush for cytology, 3Fr.. non-sterile, disposable package of 5</p> <p>Stone basket, sterile, disposable 3Fr.. length 115cm</p> <p>Coagulating Electrode, 3FR.. unipolar, length 110cm</p> <p>Biopsy forceps, double spoon round jaws, diameter 1.7mm, length 120cm</p> <p>grasping forceps, double action jaws, flexible 1.7mm, length 120cm</p> <p>grasping forceps, 2:3 teeth, flexible, working length 120cm, diameter 1.7mm</p> <p>suction catheter 4.5Fr.. length 100cm, with Adaptor</p> <p>brush for cytology, diameter 1.8mm, length 120cm</p> <p>consisting of brush, outer tube and handle.</p> <p>Light source</p> <p>Cold light fountain “Xenon nova” lamp type 175W, XENON power supply : 100-125/220-240 VAC, 50/60Hz including 400 A mains cord.</p> <p>Continuous manual adjustment of light intensity</p> <p>Lamp type XENON 15V, 175Watt</p> <p>Colour temperature : App.6000K</p>	
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		<p>Light outlets 1  Light intensity adjustment: continuous manual adjustment  Dimensions wxhxd 305x110x260mm  Weight 4kg  Xenon spare lamp, 175watt, 15 volt  Fiber optic light cable, extremely heat resistant , size 4.8mm, length 300cm  <b>CAMERA SYSTEM</b>  Veterinary video camera III. PAL  Power supply 100-240 VAC, 50/60 Hz, with integrated digital fiberscope filters consisting of veterinary video camera III Camera control unit (CCU)  Vet C-mount lens f=38mm  400A mains cord.</p>		
6	<b>ULTRASONOGRAPH</b>	<p>Applications : Bovine, swine, sheep, goat, cat, dog  Scanning Method : Mechanical Sector Probe  Monitor : 508 Inches, TFT colour LCD  Gray Scale : 256  Display Modes : B, B+B, B+M, M, 4B  Probes : 2.5/3.5/5.0 MHz sector probe  Optional Probes : Mechanical castor probe  Probe Frequency : Multi-frequency interchangeable  Operating Language : English  Clinic Report : Automatically generating  Characters Annotation : Date, time, name, sex, age, doctor, hospital, full screen words edit  Body Marks :  Display Depth : &gt;190mm, multi-steps  Cine Loop : ≥ 450 frames  Image Reversation : Left/right, up/down, brightness, contrast ratio, focus number, focal position  Image Procession : Image smoothen, histogram Pseudo colour  Measurement Method : Distance, length, Area/Circumference, Time / Heart Rate/EF rate for heart.  Obstetric : Routine  Measurement  External Port :  : 1) Video  : 2) Mouse  : 3) USB2.0  Operating Time : ≥ 5.5H  Battery Charging : 1-1.5H  Optional Parts : Extral Battery  : Extral mechanical sector probe  : Car Mobile Charger  : Video Printer</p>		01
7.	<b>CLINICAL CHEMISTRY ANALYZER</b>	System type	Fully Automated, open, bench top system	01
		Through put	75-150 tests/ hour- photometric 50-100 tests/hour-ISE (Na <sup>+</sup> , K <sup>+</sup> , Cl <sup>-</sup> , Mg <sup>2+</sup> )	
		Reagent	25 positions fixed for reagents	

		<table><tr><td>slots</td><td>15 flexible (reagent or sample) Two reagent or dilution positions at room temperature</td></tr><tr><td>Assay modes</td><td>Photometric, with ISE module (optional) Turbidometry.</td></tr><tr><td>Sample types</td><td>Serum, plasma, urine, whole blood</td></tr><tr><td>Programmable parameters</td><td>Unlimited test parameters Unlimited calculation items Unlimited profiles</td></tr><tr><td>Sample container</td><td>Primary tube: 5(13x75mm)-7 ml (13x100mm) Sample cup: standard cup: 2-3ml Micro cup: 1ml Adaptors needed for all types</td></tr><tr><td>Minimum sample volume</td><td>Primary tube: 500 µl Standard cup: 40 µl Micro cup: 40 µl</td></tr><tr><td>Sample volume</td><td>2-50µl</td></tr><tr><td>Sample dilution</td><td>2-50times</td></tr><tr><td>Reaction volume</td><td>150-500µl</td></tr><tr><td>Reagent dispensing</td><td>10-200µl</td></tr><tr><td>Photometric system</td><td>multi wavelength, static photometer</td></tr><tr><td>Wave lengths</td><td>8 filters or above</td></tr><tr><td>Light source</td><td>Halogen lamp</td></tr><tr><td>Photometric detection system</td><td>Silicon photo diode</td></tr><tr><td>Quality control</td><td>Unlimited number of controls QC history of previous 2months</td></tr><tr><td>Operating conditions</td><td>Ambient temperature.</td></tr><tr><td>Ambient humidity</td><td>30-80% (RH, without condensation)</td></tr><tr><td>Power supply</td><td>220V</td></tr><tr><td>ONLUNE UPS</td><td>Sitable online 5 KVA UPS with 2hrs backup</td></tr></table>	slots	15 flexible (reagent or sample) Two reagent or dilution positions at room temperature	Assay modes	Photometric, with ISE module (optional) Turbidometry.	Sample types	Serum, plasma, urine, whole blood	Programmable parameters	Unlimited test parameters Unlimited calculation items Unlimited profiles	Sample container	Primary tube: 5(13x75mm)-7 ml (13x100mm) Sample cup: standard cup: 2-3ml Micro cup: 1ml Adaptors needed for all types	Minimum sample volume	Primary tube: 500 µl Standard cup: 40 µl Micro cup: 40 µl	Sample volume	2-50µl	Sample dilution	2-50times	Reaction volume	150-500µl	Reagent dispensing	10-200µl	Photometric system	multi wavelength, static photometer	Wave lengths	8 filters or above	Light source	Halogen lamp	Photometric detection system	Silicon photo diode	Quality control	Unlimited number of controls QC history of previous 2months	Operating conditions	Ambient temperature.	Ambient humidity	30-80% (RH, without condensation)	Power supply	220V	ONLUNE UPS	Sitable online 5 KVA UPS with 2hrs backup	
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ONLUNE UPS	Sitable online 5 KVA UPS with 2hrs backup																																								
8	INCUBATOR ORBITAL SHAKER	★ Triple-eccentric counterbalanced drive mechanism in cast iron housing with 9 permanently lubricated ball bearings and should be driven by solid-state	01																																						

		<p>brushless DC motor</p> <ul style="list-style-type: none"> <li>★ Should have optional programmable photosynthetic light bank .</li> <li>★ Shaker should have programmable controller to automate parameter changes on timed basis</li> <li>★ Capable of holding different size of flask in the universal platform like 125ml, 250ml, 500ml, 1L, 2L, 2.8L and 6L flasks</li> <li>★ Dimensions should be small enough to accommodate shaker under lab bench</li> <li>★ Programmable controls automatically changes temp, speed and optional photosynthetic light.</li> <li>★ Temperature system: 1.CONTROL: Microprocessor controlled in increments of 0.1 °C. 2.Heaters: Low watt-density ,resistance heaters with high temp.</li> <li>★ Temp range from 20°C below ambient and up to 80°C (minimum 4°C)</li> <li>★ Ambient Conditions: temperature :10°C -30 °C</li> <li>★ Humidity: 20% to 80% non-condensing.</li> <li>★ Accuracy and control: <math>\pm 0.1^{\circ}\text{C}</math> at 37°C with nominal uniformity of <math>\pm 0.25^{\circ}\text{C}</math></li> <li>★ Provision for stackability in future</li> <li>★ ALARMS: indicate when speed deviates more than 5 rpm or temp more than 1°C from set points and when timer operation has expired. Alarm may be muted.</li> <li>★ Speed range from 25-400rpm &amp; Accuracy is <math>\pm 2</math> rpm</li> <li>★ System should be able to maintain set point during power interruption and restart when power resumes</li> <li>★ Adjustable stationary shelf should be available for incubating plates</li> <li>★ Multi-function reservoir with built-in pluggable drain humidifies chamber to reduce sample evaporation as well as capture accidental spills.</li> <li>★ Optional humidity monitoring system also offered.</li> <li>★ Optional programmable, germicidal UV light in the</li> </ul>	
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		<p>air flow path out side the chamber.</p> <ul style="list-style-type: none"> <li>★ Optional gassing manifold, programming photosynthetic light bank.</li> <li>★ Large viewing window and internal light minimize the need to open the door.</li> <li>★ Possibility to use universal and dedicated platforms</li> <li>★ Maximum capacity – 64 x 50ml flasks / 34 x 125ml/ 25 x250ml/ 16x 500ml/ 9 x 1L/ 4 x 2.8L / 4 x 5L / 2 x 6L</li> <li>★ Shaker control and data logging via RS 232 and remote computer running conventional lab management software or hyper terminal.</li> <li>★ <b>Moisture proof power receptacle to accommodate accessory instruments inside the shaker</b></li> <li>★ Acceleration circuit to prevent sudden start and stop should be available</li> <li>★ Sensor to detect high temperature limit and to shut off temperature when limit is exceeded.</li> <li>★ Certificates: meets CSA,UL &amp;CE Standards.</li> </ul>	
9	<b>ULTRASOUND DOPPLER</b>	<ol style="list-style-type: none"> <li>1. Fully Digital System to perform all the Radiological Applications like Abdomen, Reproduction, Vascular and Small parts etc in Veterinary Applications with Fully digital Broad Band Beam- Former Technology</li> <li>2. Monitor type- Minimum 15” non Interlaced SVGA Monitor with Digital control. Swift, Swivel and tilt facility.</li> <li>3. Key – Board – Illuminated and Soft Keys for ease of use preferably and Min 10” latest Touch panel facility should be supplied.</li> <li>4.. Capability to incorporate Electronic Convex, Linear, TV and Phased Array technology probes is must with Frame rate more than 800 or more frames/sec. Technical bid clearly failing which the bid is liable for rejection.</li> <li>5. Broad Harmonic and Tissue Harmonic facility in Convex, Linear and Cardiac Probes</li> <li>6. System should have minimum of 6 time write zoom, and read zoom of 16 times.</li> <li>7. System should have maximum depth of 30 cm.</li> <li>8. Modes- 2D, Dual 2D, M-mode and PW , Triplex mode M –Mode with variable sweep speed.</li> </ol>	<b>02</b>

		<p>Spectral: 1 . PW,HPRF &amp; Steerable CW Doppler</p> <p>2. Selectable PW/CW Doppler Frequency</p> <p>3.Selectable sample size</p> <p>CFM:- 1. Various Maps for Velocity Variance</p> <p>2. Variable Electronic Steering With Linear</p> <p>3. Power Doppler ( Various Maps)</p> <p>9. Free Angular M Mode with 3 Cursors both ON &amp; OFF line in all the probes, with M Mode cursor rotation of Complete 360 Degree, system should have provision of getting M-mode image from the stored B-mode image. Technical attach a letter from manufacturer along with technical bid clearly failing which the bid is liable for rejection.</p> <p>10. System should be with facilities of Color Flow, Power Flow, and Directional Extended color with very high sensitivity color flow.</p> <p>11. System media internal hard disk minimum 30 GB</p> <p>12. Memory storage/Data Management- Must allow images and video clips to stored, reviewed and export in different format.</p> <p>13. USB Port for external storage with CD/DVD /USB Pen drive Writing With Imaging.</p> <p>14. Dynamic Range minimum 90 DB or more.</p> <p>15. System should have minimum 3 active live probe connectors With On board switching.</p> <p>16. Should have high speed data transfer between Cine Memory and Hard Disk.</p> <p>Cine Memory- B mode max 16,000 frames, M &amp; D Modes Max 3000 seconds.</p> <p>17. System must be offered with a single button control of optimization to achieve a optimal uniformity in faster 2D scans.</p> <p>18. Direct Printing solution through laser printer: Images must be printed on laser printer; Suitable color laser printer should be supplied with standby facility for 2 hrs. without power supply.</p> <p>19. General Measurements &amp; Advance calculation packages: Extensive advance calculation packages &amp; General Measurements For B Mode, M-Mode &amp; Doppler Separately for Dogs/Cattle/Horses etc.</p> <p>19. Probes:-</p> <table><tr><td>Required probes</td></tr><tr><td>2-6 Mhz Multi frequency Harmonic Curved Array Transducer for Abdominal &amp; OBG&amp; GYNC. Must Tissue Harmonic Imaging. Should attach technical data sheet of transducer to specify. Supply dedicated Biopsy guide for Convex</td></tr></table>	Required probes	2-6 Mhz Multi frequency Harmonic Curved Array Transducer for Abdominal & OBG& GYNC. Must Tissue Harmonic Imaging. Should attach technical data sheet of transducer to specify. Supply dedicated Biopsy guide for Convex	
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		<div>Probe.</div> <div>5-13 Mhz Multi frequency Harmonic Linear Transducer for Small Parts imaging . Should attach technical data sheet of transducer to specify..</div> <div>1-5 MHz Multi frequency Harmonic Cardiac Probe for Extensive Cardiac Applications</div>		
		<p>20. Ergonomically designed machine to occupy less commercial space.</p> <p>21. Hight adjust of the machine is must, For Easy operating with Different animals.</p> <p>22. Pan / Write zoom facility.</p> <p>23. Thermal Printer – B/W Thermal Paper Printer. To be supplied with the machine</p> <p>24. 45 or more Separate programs for specific clinical applications and/or users</p> <p>25. System should be up gradable to Stress echo , Contrast echo , TDI Analysis and Automated segmental motion analysis .</p> <p>26. System should supply with suitable UPS (one hour backup).</p> <p>27. Ambient cooling temperature facility (Split Air conditioner 2 ton capacity).</p> <p>28. User guide facility.</p> <p>29. Ultrasound gel 5 kg x 5.</p> <p>30. Examination table (Wooden) for small animals.</p> <p>27. Complete Set of the system including Installation at Veterinary Hospital Proddatur with one year warranty and maintenance for two years</p>		
10	<b>SMALL ANIMAL ANESTHESIA MACHINE</b>	<p>1. Should have 1500cc heavy duty “Coaxial” absorber, recessed. Preferably molded Canister</p> <p>2. Should have Single large thumbscrew canister release</p> <p>3. Should have 1 to 4 lpm precision Oxygen flow meter and Rotary float and large scale for improved readability.</p> <p>4. Should have recessed flush valve to prevent accidental activation and quick connect fresh gas outlet for easy and secure switching between breathing circuits.</p> <p>5. Should have reservoir bags 0.5L, 1l, 2l, 3l, and 5lts.</p> <p>6. Should have compatibility manifold for easy and quick installation of any model Vaporizer.</p> <p>7. Should have Large Quick Lock Inspiration and Expiration domes for easy access and visibility.</p> <p>8. Instrument shelf, stainless steel</p> <p>9. Momentary closed feature incorporated into our pop-off valve.</p> <p>10. Circuit pressure gauge, easy to read and large</p> <p>11. Patient circuit pressure alarm audible. Rotating bag mount for ease of visibility and easy access</p> <p>12. Fairly good built in Evacuation connector.</p> <p>13. High stability frame with good long lasting finishing.</p>	01	

		14. Large heavy duty cushioned castors, 2 with locks, for easy glide and long life. 15. Easy compatibility for easy installation of brain circuit and scavenger interface. 16. Oxygen supply hose 9ft, Patient circuit with 2 and 3 L bags 17. Drawer module at least 4 drawers with Larger Monitor shelf. 18. Scavenger interface, Preset regulator 19. Should have all sizes of available Veterinary specific masks with diaphragms from small feline to large canine. 20. Minimum Three year Onsite warranty. 21. Should have supplied similar machine to some veterinary institution and if required demonstration should be given. Including Bulk oxygen cylinders 'A' type 5 Numbers	
11.	<b>LARGE ANIMAL ANESTHESIA MACHINE</b>	1. Should be true microprocessor based electronic control system incorporating the features of current intensive care ventilators with microprocessor technology. 2. System must be specific for large animal with display of selected respiratory variables. 3. Inverted 18 liters ascending bellows during exhalation for near to natural breathing should be included. 4. Multiple electrical outlets with surge protection, different alarms and gas controls, pneumatic manual push button for inspiration, separate rotameter (oxygen, nitrous oxide), circle absorber, isoflurane and sevoflurane vaporizers should be included. 5. Machine should be complete with 30 L and 15 L rebreathing bags with trolley. 6. Endotracheal tubes (3) of different sizes for large animals along with 5 'A' type bulk oxygen and nitrous oxide gas cylinders of each should be supplied along with user guide, transport, installation, demonstration, warranty and maintenance for two years, Isoflurane and sevoflurane -250ml each. Quick change soda lime canister. No disassembly should be required for cleaning.	01
12.	<b>LARGE ANIMAL OPERATION TABLE</b>	1. The Large Animal Table should have rust proof surface coating 2. The table should be user friendly and can be used for equines, bovines etc. 3. The table should be provided with 4 Vertical poles 4. Minimum Height should not be more than 50cm. 5. Maximum Height Should not be less than 1.10m. 6. Should have features of Pelvic angle +/- 8 Degree and head support +/- 20" 7. The Large Animal Table should be supplied with Anesthetic hose support for ease during anesthesia and moveable rack.	01

		<p>8. The Large Animal Table should be provided with padding of 90-100mm thickness.</p> <p>9. Table should have locking device for the wheels should be mounted on the frame</p> <p>10. The side panels should be sleeplessly control by gas hydraulic cylinders.</p> <p>11. And should be easily removable</p> <p>12. Should be supplied with 2 horizontal bars with clamps and 4 clamps for belt</p> <p>13. Should be supplied with 4 coated foam strips for head section and side panel and</p> <p>14. 4 wedge-shaped foam paddings</p> <p>15. Table should have battery backup for at least 20 lifts and charging time should not exceed 6 hours. The Table should work while battery is charged.</p> <p>16. The side supports and head supports should be detachable</p> <p>17. The Large Animal Surgery Table should be equipped with safety features at each corner and head support to avoid leg injury while lowering the table</p> <p>18. Should be supplied with following accessories.</p> <p>19. Large Colon Tray which can be placed caudally or laterally.</p> <p>20. Leg Support</p> <p>21. 2 leg support (Orthopedic) – adjustable</p> <p>The quoting company should have supplied similar unit to some veterinary institution in India and if required should be able to provide demonstration.</p>	
13.	<b>VETERINARY SURGICAL OPERATING MICROSCOPE WITH OPHTHALMIC REFRACTION UNIT AND BINOCULAR INDIRECT OPHTHALMOSCOPE</b>	<p>1. Surgical operating microscope with built in halogen illuminating lamp, upto 2.5 X magnification with five step magnichanger, with manual / motorized fine focusing adjustment, working distance f= 200 mm objective lens along with ophthalmic refraction unit.</p> <p>2. Ophthalmoscope with clear binocular viewing, dirt and dust proof, works for inter pupillary distance of 49-74 mm, features built-in apertures and filters, true small – pupil capability down to 2mm in size by moving along with teaching mirror including transport, user guide, demonstration, installation, warranty and maintenance for two years.</p>	01
14.	<b>NATURAL RO WATER PANT WITH SS TANK</b>	<p>RO 50 LPH PLANT(150 members)</p> <p>300 GPD motors-2, Membrane-5, ACDC Adaptor 24 VDC-2, Sedement filters-2, Cprbon filter-1</p> <p>Watts-25VDC, Production-50LPH, Membrane-75 GPD, Motor-300 GPD</p> <p>SS tank capacity 1000 Ltrs along with 40/80 water coolers of reputed company</p> <p>Transport and Installation will be shipped with complete instruction and installation by the firm.</p> <p>1 year warranty from date of installation</p>	03

15.	STUDENT TABLES ( 2 SEATER)	Size: 45”(w) x 36.5”(d) x 27.8”(h) Two seat MS epoxy powder coated tubular frame with pre laminated twin backed by pre laminated twin 2 Nos seats with a book shelf below. Surface finish of material very smooth. (Godrej : Make)	45																
16.	SHOW CASE (Glass Panelled)	Standard type (5shelves standard glass with iron (size 72” ht x 17.7”d x 35.4”w frame with standard gauze with lock and key provision.	09																
17.	STUDY TABLES (STUDENT)	Size: 35.5”(w) x 23.6”(d) x 29.3”(h) Laminated top on MS tubular frame with one pedestal 13.9”(w) x 12.4”(d) x 17.0” (h) with two drawers on one side. (Godrej Make).	40																
18.	AIR CONDITIONER (SPLIT 2.0 TON)	5 star Air Conditioner Should have more than 3.5 EER/COP , with good quality Filters Turbo cooling, Sleep mode timer supplies along with 5 KVA V GUARD/ Keeline stabilizers outdoor unit along with installation	10																
19	4D ECHO COLOR DOPPLER DIAGNOSTIC ULTRA SOUND UNIT ALONG WITH TABLE AND PROBESOF DIFFERENT FREQUENCIES WITH INVERTER FACILITY AND AMBIENT TEMPERATURE CONTROL UNIT	<table><tr><th>Main Specifications</th><th>Detailed Specifications</th></tr><tr><td>Technology and Certificates</td><td><ul style="list-style-type: none"><li>✦ Fully Digital Broadband Beam-former</li><li>✦ System must be branded and should have CE and FDA approvals. Certificates must be enclosed.</li></ul></td></tr><tr><td>Probes Technology / Capabilities</td><td><ul style="list-style-type: none"><li>✦ Broad Band Electronic Convex Array, Linear Array, Transrectal and Intra-operative probes, Electronic Phased Array for Cardiac application in small animals and Thoracic scans in large animals Technologies</li></ul></td></tr><tr><td>Digital Processing Channels</td><td><ul style="list-style-type: none"><li>✦ Minimum 2048 Digital Channels, supporting technical specification sheet must be enclosed otherwise bid is liable for rejection.</li><li>✦ Latest user configurable speckle noise reduction technology</li></ul></td></tr><tr><td>Portable System</td><td><ul style="list-style-type: none"><li>✦ Weight should be less than 10Kgs.</li><li>✦ In built battery backup</li><li>✦ System should have in built AC adaptor for charging the battery.</li></ul></td></tr><tr><td>Monitor Type</td><td>② Minimum 15” TFT/LCD Monitor</td></tr><tr><td>Machine Trolley Ergonomics</td><td>③ The trolley should have foot lock for locking the wheel movement.</td></tr><tr><td>Applications</td><td><ul style="list-style-type: none"><li>✦ Cardiology in Small and Large Animals</li><li>✦ General Abdominal in Small and Large Animals</li><li>✦ Vascular &amp; Small Parts in Small and Large Animals</li><li>✦ Pregnancy diagnosis, Obstetric applications in Large and Small Animals.</li></ul></td></tr></table>	Main Specifications	Detailed Specifications	Technology and Certificates	<ul style="list-style-type: none"><li>✦ Fully Digital Broadband Beam-former</li><li>✦ System must be branded and should have CE and FDA approvals. Certificates must be enclosed.</li></ul>	Probes Technology / Capabilities	<ul style="list-style-type: none"><li>✦ Broad Band Electronic Convex Array, Linear Array, Transrectal and Intra-operative probes, Electronic Phased Array for Cardiac application in small animals and Thoracic scans in large animals Technologies</li></ul>	Digital Processing Channels	<ul style="list-style-type: none"><li>✦ Minimum 2048 Digital Channels, supporting technical specification sheet must be enclosed otherwise bid is liable for rejection.</li><li>✦ Latest user configurable speckle noise reduction technology</li></ul>	Portable System	<ul style="list-style-type: none"><li>✦ Weight should be less than 10Kgs.</li><li>✦ In built battery backup</li><li>✦ System should have in built AC adaptor for charging the battery.</li></ul>	Monitor Type	② Minimum 15” TFT/LCD Monitor	Machine Trolley Ergonomics	③ The trolley should have foot lock for locking the wheel movement.	Applications	<ul style="list-style-type: none"><li>✦ Cardiology in Small and Large Animals</li><li>✦ General Abdominal in Small and Large Animals</li><li>✦ Vascular &amp; Small Parts in Small and Large Animals</li><li>✦ Pregnancy diagnosis, Obstetric applications in Large and Small Animals.</li></ul>	01
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			<ul style="list-style-type: none"><li>★ Musculoskeletal</li></ul>
	Probe Connectors		<ul style="list-style-type: none"><li>★ Minimum 2 probes active imaging connector</li><li>★ Any probe can be connected to any port</li></ul>
	Key Board		<ul style="list-style-type: none"><li>★ Illuminated &amp; soft Keys for ease of use with inbuilt QWERTY key board</li></ul>
	Modes		<ul style="list-style-type: none"><li>★ Imaging: B, B+B, B+M,B/M, 4B, B+PW, B+CW, B+CFM</li></ul>
			<ul style="list-style-type: none"><li>★ M-Mode: with variable Sweep speed</li></ul>
			Spectral 1. PW, HPRF & Steerable CW Doppler  Doppler 2. Selectable PW/CW Doppler Frequency  3. Selectable sample size
			CFM: 1. Various Maps for Velocity & Velocity Variance 2. Variable Electronic Steering with Linear probes 3. Power Doppler (Various Maps)
	Combined Modes		<ul style="list-style-type: none"><li>★ B+M, B+PW, B+CFM+M, B+CFM+PW, B+CFM+ CW, Triplex Mode</li></ul>
	Tissue Harmonic Imaging facility on all probes		<ul style="list-style-type: none"><li>★ Must be available on Convex Probe, Linear Probe, and Transrectal &amp; Phased array Probes.</li></ul>
	Up-gradable to Tissue Doppler Mapping		<ul style="list-style-type: none"><li>★ To calculate tissue velocity with color coding facility.</li></ul>
	Up-gradable to Anatomical M-Mode		<ul style="list-style-type: none"><li>★ Dual simultaneous 360 degree rotatable dual M-Model</li></ul>
	Up-gradable to Contrast Media based Imaging &management. <i>(Price quote in optional)</i>		<ul style="list-style-type: none"><li>★ Real Time Low MI Contrast Management and Intermittent High MI Contrast Management</li><li>★ Fast Switching Tissue / Contrast</li><li>★ Real Time Dual Imaging &amp; Color Dual Processing</li></ul>
	Cine Loop Frames		<ul style="list-style-type: none"><li>★ Min. 500 Frames with continuous as well as frame by frame loop review and cine memory 250MB</li></ul>
	Annotations & Body marks		<ul style="list-style-type: none"><li>★ Sets of annotations for every application</li><li>★ Body marks for every study with pointer</li></ul>
	Memory Storage/ Data Management		<ul style="list-style-type: none"><li>★ Must allow images and video clips to get stored, reviewed and exported in different formats</li></ul>
	Direct printing solution		<ul style="list-style-type: none"><li>★ Images must be printed on Ink jet printer/ laser printer in format of 4</li></ul>

		through Ink Jet or Laser printer	or 6 spots per paper (without using computer in between)	
		Ink saving option in printing	<ul style="list-style-type: none"> <li>Machine must have facility to print outer black part (other than Imaging area) to be printed in white and letter/screen information to be printed in Black to save Ink cost.</li> </ul>	
		In-built work station software and CD /DVD /USB PEN drive writing facility	<ul style="list-style-type: none"> <li>Must have CD/DVD/USB writing- burning facilities and it can be viewed in any PC.</li> <li>In Built workstation software should be provided for post processing and measurements on stored images and it should have possibility to install in any desktop/laptop</li> </ul>	
		CD/DVD/USB writing with Imaging	<ul style="list-style-type: none"> <li>Machine must have capabilities to write CD/DVD/ USB and live scan simultaneously to save time</li> </ul>	
		USB port	<ul style="list-style-type: none"> <li>Min. 2 USB port in the Machine and must be provided with USB memory stick to transfer Images.</li> </ul>	
		In Built HDD capacity	<ul style="list-style-type: none"> <li>More than 500 GB</li> </ul>	
		Zoom Facility	<ul style="list-style-type: none"> <li>User adjustable Region of interest on frozen and live images.</li> </ul>	
		Transmit Focusing	<ul style="list-style-type: none"> <li>Adjustable Multiple level Focusing Zones facility</li> </ul>	
		General Measurements & Advance Calculation packages	<ul style="list-style-type: none"> <li>Should have Extensive Advanced Calculation packages &amp; General Measurements for B-Mode, M-mode &amp; Doppler separately for Cats / Dogs / Cattle / Horses etc.</li> </ul>	
		Functions for Doppler Studies	<ul style="list-style-type: none"> <li>Should have user selectable parameters for PRF, Wall Filters, Sample Size, Velocity, Frequency, Angle Corrections, Dynamic Range &amp; post processing.</li> </ul>	
		Auto RI & PI online calculation	<ul style="list-style-type: none"> <li>Machine must have online Doppler tracing for continuous measurements of RI &amp; PI.</li> </ul>	
		Functions for Color Flow Mapping studies	<ul style="list-style-type: none"> <li>User selectable parameters for PRF, Color Filters, sensitivity, Velocity (Mean, Velocity/variance, Variance &amp; Intensity etc. Maps) Variable CFM Box, Color Processing.</li> <li>Bi-direction Power color Doppler &amp; Power Doppler</li> </ul>	
		Auto Report Generation and printing Facility	<ul style="list-style-type: none"> <li>Measured parameters must be printed directly in the form of report through ink jet printer.</li> <li>Machine must have various report formats facility</li> </ul>	

		<table><tr><td colspan="2"><b>Probe to be included with the Machine</b></td></tr><tr><td>Phased array probe</td><td><ul style="list-style-type: none"><li>◆ 2 to 4 MHz Broad Band Electronic Phased array Sector probe PW &amp; CW Doppler Facility for Cardiac application in large and small animal.</li><li>◆ The foot print of the Probe should be min of 22mm (approx).</li><li>◆ Depth of the probe should be upto 36cm.</li></ul></td></tr><tr><td>Convex array probe</td><td><ul style="list-style-type: none"><li>◆ 2 to 7 MHz Broadband curved array probe for abdominal studies &amp; OBG applications in small animals and large animals.</li></ul></td></tr><tr><td>Linear array Transrectal Probe</td><td><ul style="list-style-type: none"><li>◆ 5 to 10 MHz Linear array probe for Pregnancy diagnosis in large animals</li></ul></td></tr><tr><td colspan="2"><b>Accessories to be supplied with the system</b></td></tr><tr><td>UPS</td><td><ul style="list-style-type: none"><li>◆ Suitable online UPS should be supplied along with the machine.</li></ul></td></tr><tr><td colspan="2"><b>Additional Probes to be quoted Separately</b></td></tr><tr><td colspan="2">◆ <b>4to9 MHz Broad Band Curved array probe for abdominal studies &amp; OBG applications in small animals and Large Animals.</b></td></tr><tr><td colspan="2">◆ <b>4-13 MHz Broad Band Linear array probe for small parts studies.</b></td></tr><tr><td colspan="2">◆ <b>3-8 MHz Phased array sector Probe for cardiac application in Rabbits and smaller species.</b></td></tr><tr><td colspan="2">◆ <b>Suitable Color Laserjet or Inkjet printer to be quoted in optional items</b></td></tr><tr><td colspan="2">◆ <b>Sony Thermal printer</b></td></tr><tr><td colspan="2">◆ <b>1.5 ton split AC</b></td></tr><tr><td colspan="2"><i>Warrantee 3 years and CMC should be quoted for 4<sup>th</sup> to 5<sup>th</sup> years.</i></td></tr></table>	<b>Probe to be included with the Machine</b>		Phased array probe	<ul style="list-style-type: none"><li>◆ 2 to 4 MHz Broad Band Electronic Phased array Sector probe PW &amp; CW Doppler Facility for Cardiac application in large and small animal.</li><li>◆ The foot print of the Probe should be min of 22mm (approx).</li><li>◆ Depth of the probe should be upto 36cm.</li></ul>	Convex array probe	<ul style="list-style-type: none"><li>◆ 2 to 7 MHz Broadband curved array probe for abdominal studies &amp; OBG applications in small animals and large animals.</li></ul>	Linear array Transrectal Probe	<ul style="list-style-type: none"><li>◆ 5 to 10 MHz Linear array probe for Pregnancy diagnosis in large animals</li></ul>	<b>Accessories to be supplied with the system</b>		UPS	<ul style="list-style-type: none"><li>◆ Suitable online UPS should be supplied along with the machine.</li></ul>	<b>Additional Probes to be quoted Separately</b>		◆ <b>4to9 MHz Broad Band Curved array probe for abdominal studies &amp; OBG applications in small animals and Large Animals.</b>		◆ <b>4-13 MHz Broad Band Linear array probe for small parts studies.</b>		◆ <b>3-8 MHz Phased array sector Probe for cardiac application in Rabbits and smaller species.</b>		◆ <b>Suitable Color Laserjet or Inkjet printer to be quoted in optional items</b>		◆ <b>Sony Thermal printer</b>		◆ <b>1.5 ton split AC</b>		<i>Warrantee 3 years and CMC should be quoted for 4<sup>th</sup> to 5<sup>th</sup> years.</i>		
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Phased array probe	<ul style="list-style-type: none"><li>◆ 2 to 4 MHz Broad Band Electronic Phased array Sector probe PW &amp; CW Doppler Facility for Cardiac application in large and small animal.</li><li>◆ The foot print of the Probe should be min of 22mm (approx).</li><li>◆ Depth of the probe should be upto 36cm.</li></ul>																														
Convex array probe	<ul style="list-style-type: none"><li>◆ 2 to 7 MHz Broadband curved array probe for abdominal studies &amp; OBG applications in small animals and large animals.</li></ul>																														
Linear array Transrectal Probe	<ul style="list-style-type: none"><li>◆ 5 to 10 MHz Linear array probe for Pregnancy diagnosis in large animals</li></ul>																														
<b>Accessories to be supplied with the system</b>																															
UPS	<ul style="list-style-type: none"><li>◆ Suitable online UPS should be supplied along with the machine.</li></ul>																														
<b>Additional Probes to be quoted Separately</b>																															
◆ <b>4to9 MHz Broad Band Curved array probe for abdominal studies &amp; OBG applications in small animals and Large Animals.</b>																															
◆ <b>4-13 MHz Broad Band Linear array probe for small parts studies.</b>																															
◆ <b>3-8 MHz Phased array sector Probe for cardiac application in Rabbits and smaller species.</b>																															
◆ <b>Suitable Color Laserjet or Inkjet printer to be quoted in optional items</b>																															
◆ <b>Sony Thermal printer</b>																															
◆ <b>1.5 ton split AC</b>																															
<i>Warrantee 3 years and CMC should be quoted for 4<sup>th</sup> to 5<sup>th</sup> years.</i>																															
20	<b>COMPUTED RADIOGRAPHIC UNIT</b>	<p><b>S.N. Description of function</b> Radiography system to replace conventional Film/Screen based X-Ray Processing techniques with Photostimulable Phosphor Plate technology based Digital technology..</p> <p><b>S.N. Operational requirements</b> The system shall be able to record X-Ray images on Imaging Plates(IP) The IP shall be housed in CR Cassettes that have a technology to store demographic data. Operationally and functionally equivalent to and better than the present film based system Convert these images from the IP into digital values and transfer these values to an image evaluation computer with predefined Image Processing Parameters.</p>	01																												

		<p>Should record Patient Identification data on the on the image.</p> <p>Maintain and manage data bank of all patient and image data.</p> <p>Retrieve and reproduce accurate , high quality high resolution images from stored data without loss of image quality.</p> <p>Present CR images on a workstation as well as on hard copies.</p> <p>Show full image in the X-Ray room for preview purposes.</p> <p>Read and Write in CD/DVD for data Storage and review.</p> <p>Appropriate technology to provide uniform and thick slice thickness.</p> <p><b>S.N. Technical Specifications</b></p> <p>Image Reader will have the following :</p> <p>Cassette Mechanism to Load and Unload IP .</p> <p>Scanning mechanism to read, erase and process the images from the imaging plate. (IP)</p> <p>Including auto routing newly acquired images to desired preview monitor.</p> <p>IP processing rate&gt; 50 plates/hr.</p> <p>Panel for indicating online status of the CR Reader in case of machine malfunction.</p> <p>Emergency Mode for accepting exposed cassettes without patient demographics for casualty trauma workflow requirements.</p> <p>Capability of retrieving at least 10 scanned images and quick check of the exam data and the image of at least the last four cassettes scanned at the X-Ray room. Verification of the connectivity status of configured image destination.</p> <p>Spatial resolution of digital image 6 pixels/mm or more.</p> <p>Scanning resolution for all the IP Plates should be specified in the quote.</p> <p>Should enable 12 bit and above images.</p> <p>X-Ray Generator compatibility.</p> <p>CR Workstation will have the following.:</p> <p>Capable of Archieving and printing selected images to a standard DICOM destination in DICOM 3.0 format.</p> <p>Storing images in the local disk for predefined period.</p> <p>Mechanism for accepting new images when the local disc is full..</p> <p>Sorting of patient image based on name,date,exam etc.</p> <p>Advance Processing Software</p> <p>Using predefined parameters or user defined and stored image parameters.</p> <p>Correcting typographical in patient demographic module, in case RIS connection was down and manual data entry was done.</p> <p>Capability of changing R/L,Flipping , Rotating, Zooming,Collimating, annotating the incoming image..</p> <p>Multi image and slide formats.</p> <p>Capability of storing in CD/DVD.</p>	
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		<p>Software for Advance Image processing, applications, display and quality monitoring.</p> <p>Connectivity and compatibility to communicate to RIS/HIS and DICOM</p> <p>Compatible devices such as MR/CT/DSA Work station, Should provide for HL-7 compatible interface.</p> <p>Remote ID and Preview station. Should have the following: Auto detection of cassette.</p> <p>Mechanism of writing /reading data using suitable technology</p> <p>HIS/RIS/DICOM Compatibility.</p> <p>Preview scanned images on predefined preview terminal.</p> <p>Retrieving capality of last 10 patient ID on the terminal.</p> <p>Identification of overexposure on preview module.</p> <p>Mechanism for user release in case of autorouting images.to predefined DICOM destinations</p> <p>System should be able to support minimum 5 review terminals</p> <p>Preview display time &lt; 45 sec.</p> <p>Dry View Imaging Printer/Dry Imager/LASER Printer (film based) with the following:</p> <p>Print Images from CR workstation. In DICOM 3 format.</p> <p>Mechanism to print images to 8x10 and 10x12, 11x14, 14x17 film sizes with minimum 2 universal tray online)</p> <p>Resolution&gt; 500 DPI.</p> <p>Multiple Image and slide printing capability.</p> <p><b>S.N. System Configuration Accessories, spares and consumables</b></p> <p>IP/Cassettes size- qty</p> <p>14x 17 03</p> <p>10x 12 02</p> <p>8 x 10 02</p> <p>Image Reader system 01</p> <p>CR Workstation 01</p> <p>RIS Interface 01</p> <p>Remote ID and Preview station. 01</p> <p>Archieving System 01</p> <p>Dry View Imaging Printer/Dry Imager/LASER Printer (film based)</p> <p>Black and white laserjet printer for reporting</p> <p>56</p> <p><b>S.N. Environmental factors</b></p> <p>The unit shall be capable of operating continuously in ambient temperature of 25±5 Deg Celcius and relative humidity of 80%</p> <p><b>S.N. Power supply</b></p> <p>Power input to be 220-240VAC, 50Hz, fitted with Indian plug</p> <p>Resettable overcurrent breaker shall be fitted for protection</p> <p>Spike protector of appropriate rating should be provided</p> <p>UPS of suitable rating conforming to IS-302 shall be supplied</p> <p><b>S.N. Standards and safety</b></p> <p>Should be FDA or CE approved product</p>	
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		<p>Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450</p> <p>7.3 Comprehensive guarantee for 3 years of complete system.</p> <p><b>S.N. Documentation</b></p> <p>User manual in English</p> <p>Service manual in English</p> <p>List of important spare parts and accessories with their part number and costing.</p> <p>Certificate of calibration and inspection from factory.</p> <p>Log book with instruction for daily , weekly, monthly and quarterly maintenance checklist.</p> <p>The job description of the hospital technician and company service engineer should be clearly spelt out.</p>	
21	<p><b>SMALL ANIMAL INHALATIONANESTHETIC APPARATUS WITH ISOFLURANCE VAPORIZER CYLINDERS FOR OXYGEN AND NITROGEN AND OTHER ACCESSORIES</b></p>	<p>Physical &amp; Environmental Specification</p> <p>Dimensions(W×H×D): 890 ×1335×620mm</p> <p>Anesthesia Machine Weight: 110kg</p> <p>Storage temperature: -20~+55?</p> <p>Working temperature: +10~+40?</p> <p>Storage humidity: ≤93%</p> <p>Electronical Specification</p> <p>Mains: 110-240V AC, 50-60Hz</p> <p>Power consumption: ≤50W</p> <p>Pneumatics Specification</p> <p>Gas supply: O<sub>2</sub>,N<sub>2</sub>O: 0.28-0.6Mpa</p> <p>Flowmeters: O<sub>2</sub>: 0-1L/min; 1-10L/min; N<sub>2</sub>O: 0-1L/min; 1-10L/min</p> <p>Gas system: O<sub>2</sub> deficiency alarm; Hypoxic guard system ;</p> <p>O<sub>2</sub> flush: 35-75L/min</p> <p>Working mode: Closed, Semi-closed, Semi-open with accessories for circuits</p> <p>Driven mode: Pneumatically driven and electronically controlled</p> <p>Operating mode: Man. / Vent.</p> <p>Safety valve: ≤8kpa</p> <p>Ventilator Specification</p> <p>Patient type: Adult,pediatric</p> <p>Ventilation modes: IPPV, Manual</p> <p>Setting: Touch key</p> <p>Tidal volume: 0-1500ml</p> <p>Ventilation frequency: 6-60bpm</p> <p>I:E ratio: 2:1-1:4</p> <p>Peep: 0-20 cmH<sub>2</sub>O</p> <p>High pressure: 21-60cmH<sub>2</sub>O</p> <p>Low pressure: 0-20cmH<sub>2</sub>O</p> <p>Monitoring: Display: High quality LED</p> <p>Pressure: Paw</p> <p>Volumes: V<sub>t</sub></p> <p>Breath rate</p> <p>Alarm: Pressure: Paw high/low limit</p>	01

		<p>Low O2 supply pressure</p> <p>Power failure</p> <p>Alarm silence: ≤120s</p> <p>Vaporizer</p> <p>Support 1 vaporizer (Selectatec compatible )</p> <p>Agent type: Halothane, Enflurane, Isoflurane , Sevoflurane available.</p> <p>AMBU unit</p>	
22	<b>OPERATING MICROSCOPE</b>	<p><b><u>Main Microscope</u></b></p> <p>Eye Pieces: 10x wide field (Optional 12.5 x wide field)</p> <p>Diopter Adjustment: From +6 to - 6</p> <p>Observation Angle: 45, 0 - 80 Continuous binocular tube (F=170mm)</p> <p>Interpupillary Distance : Adjustable from 55mm 75mm by knob</p> <p>Working distance: 175mm (Optional 200mm)</p> <p>Magnification Change type: Manually Adjustable by knob</p> <p>Total Magnification: 4x to 25x</p> <p>Field of vi: 42mm to 9mm Diameter</p> <p>Fine Focusing: 50mm adjustable by Motorized foot control</p> <p>XY Coupling movement: 30mm x 30mm</p> <p><b><u>Illumination System</u></b></p> <p>Illumination Homogenous, coaxial (Standard 6°)</p> <p>Illumination coupled with 0°&amp;-2°)</p> <p>Minimum Intensity 80,000 Lux</p> <p>Brightness Continuously Variable</p> <p>Light Transmission By Fiber Optic Cable</p> <p>Light Source Twin Outlet 12V/100W Halogen Lamp</p> <p>With cold reflector</p> <p>Microscope Stand</p> <p>Type Compact mobile Floor Stand</p> <p>Mobility On Four Caster Wheels</p> <p>Dimensions of Base 600mm X 560mm</p> <p>Arms Counterbalanced Spring Arms</p> <p>Horizontal Length of Arms 900 mm</p> <p>Vertical Height Adjustment 1220 mm-1625mm</p> <p>Rotation of Primary Arm 355° with lock</p> <p>Rotation of Control panel 360°</p> <p>Rotation of X-Y 280"</p> <p>Power Supply AC 220-240 Volts or 110 Volts on Request</p>	01
23	<b>ELECTRICAL WEIGHING BALANCE FOR CALVE</b>	<ul style="list-style-type: none"> <li>- Rugged and robust construction</li> <li>- Bright LED easily readable display.</li> <li>- Microprocessor-controlled</li> <li>- Precision load cell</li> <li>- High resolution</li> <li>- Built in Tare facility</li> <li>- Kg, lb &amp; oz units</li> <li>- Matt finish Stainless Steel Platform</li> <li>- Parts counting and percentage function</li> <li>- Calibration Facility</li> <li>- Membrane Keyboard</li> <li>- Data output RS 232</li> <li>- Overload protection</li> <li>- Provided with A.C Adaptor</li> </ul>	01

		<ul style="list-style-type: none"> <li>- High accuracy and can be used as weighing standard where precision is the main criteria</li> <li>- Square pipe structure makes this machine more rugged and reliable</li> </ul> <p>Technical Specification:</p> <ul style="list-style-type: none"> <li>- Capacity : 100Kg.</li> <li>- Readability/ Accuracy: 5gm</li> <li>- Material of platform : Matt finish stainless steel</li> <li>- Platform size : 42.5cmx42.5cm.</li> </ul>	
24	<b>INDIRECT OPHTHALMOSCOPE</b>	<p>1.Headband Rheostat control</p> <ul style="list-style-type: none"> <li>◆ Apertures and Filters : Can be locked in desired position</li> <li>◆ Adjustment Levers / friction clutch : to protect mechanisms from forced adjustment while in the lock position.</li> <li>◆ Easy mount head</li> <li>◆ Flip up adjustment : Optic should be flipped and locked at 0 ° to 60°</li> <li>◆ PD Range:From 46 - 74mm</li> <li>◆ Mechanically reinforced adjustment: for precise adjustments of the headband</li> </ul> <p>Accessories</p> <ul style="list-style-type: none"> <li>◆ Scleral depressor large</li> <li>◆ Scleral depressor small</li> <li>◆ A. R 20D ophthalmoscope lens</li> <li>◆ Pad with 50 fundus charts</li> <li>◆ Teaching mirror</li> </ul> <p>Battery</p> <ul style="list-style-type: none"> <li>③ Rechargeable battery integrated on the headband</li> <li>③ Enchargeable by wall charger / plug in transformer</li> <li>③ Automatic changeover from operating to charging mode</li> <li>③ Direct operation possible while charging.</li> </ul> <p>Camera system</p> <ul style="list-style-type: none"> <li>◆ Fully integrated camera system: no external basket /prism</li> </ul>	01

		<ul style="list-style-type: none"> <li>✦ Water proof camera head</li> <li>✦ High resolution A-cam camer CCD 42,000 PIXELS</li> <li>✦ Image sensor: 1/2" CCD colour</li> <li>✦ S-VHS monitor</li> <li>✦ FBAS (composite) and Y /C SVHS outputs</li> <li>✦ Optional PAL or NTSC format</li> <li>✦ Connecting cable 3 meter</li> </ul>	
25	<b>FERROSCOPE</b>	Hand held unit for detecting presence of metallic foreign objects from the abdomen of large ruminants	01
26	<b>SUCTION APPARATUS FOR SMALL ANIMALS</b>	<p>Portable suction unit: size 38x17x28.5cm, weight 5.1kg</p> <p>Description (e.g.: model Vario A/C, manufacturer Medela)</p> <p>Technical specifications: SUCTION MACHINE with pump:</p> <ul style="list-style-type: none"> <li>- Power supply: 230-240V/50Hz</li> <li>- Vacuum capacity: 18 litres/mim</li> <li>- Maximum depression: -75kPa (-563mmHg)</li> </ul> <p>Vacuum is created by a plastic piston and cylinder system, with four vacuum-creating modules (QuatroFlex™ technology).</p> <p>The membrane vacuum regulator permits accurate vacuum settings.</p> <p>Double overflow-protection system (bottle and pump).</p> <p>Working temperature range: +5 to +40°C.</p> <p><b>SAFETY DEVICE:</b></p> <p>The safety device protects the pump against overflow: suction is interrupted when foam or liquids reach the safety level in the small jar. All components are reusable and can be steam sterilized at 134°C.</p> <p><b>COLLECTOR SYSTEM:</b></p> <p>Bottle or jar: 1 litre, graduated PSU (polysulphone)</p> <p>Lid: Includes 1 overflow device, a 6x10mm diameter conical connector and 2 clips</p> <p>Connection tube: Silicone tubing, diameter 12x7mm, length 25cm, and 2 connectors: 1 straight and 1 curved 90°.</p> <p>Suction tube: Reusable silicone tube: diameter 7x12mm, length 200mm.</p> <p>Single-use tube: diameter 7x12mm, length 180cm.</p> <p>Filters: Bacterial filters, single-use.</p> <p>Unit presentation: Delivered with the following components:</p> <ul style="list-style-type: none"> <li>- 1 suction machine and pump</li> <li>- 2 one-litre bottles or jars, with lids</li> <li>- 1 safety device</li> <li>- 4 overflow spares</li> <li>- 2 lid clip spares</li> <li>- 2 suction tubes, non-sterile</li> <li>- 2 suction tubes, sterile</li> <li>- 1 spare fuse</li> </ul>	01

		<p>- 1 user and maintenance manual, multilingual</p> <p>Packaging: Box: 400x400x470mm</p> <p>The following must appear on the pump packaging:</p> <ul style="list-style-type: none"> <li>- Manufacturer's name and address.</li> <li>- Item designation, serial number, CE mark and reference number of notifying body.</li> </ul> <p>Outer packaging: Manufacturer's name; product name and serial number.</p> <p>Other: Complies with <i>Medical Device Directive</i> 93/42/EEC, class risk IIa or equivalent.</p> <p>Manufacturer's quality management system should comply with ISO 13485</p> <p><b>Accessories - Spare parts</b></p> <p>(suction, elec., vario) BOTTLE, 1L, psu, autoclavable</p> <p>Liquid collector</p> <ul style="list-style-type: none"> <li>- volume content 1 litre</li> <li>- graduation scale 100ml</li> <li>- material polysulphone</li> <li>- sterilisable at 134°C</li> </ul> <p>(suction, elec., vario) LID w/ conn.6-10mm, + overflow device</p> <p>Components:</p> <ul style="list-style-type: none"> <li>- 1 conical connector Ø 10-14mm</li> <li>- 1 overflow protection device</li> <li>- 2 blue plastic clip, for lid fixation</li> </ul> <p>(suction, elec., b30/vario) CLIP for lid</p> <p>clip, plastic, blue, for lid fixation</p> <p>(suction, elec., b30/vario)</p> <p>OVERFLOW protection device</p> <p>Bottle /jar overflow protection device, white</p> <p>(suction, elec., vario) SAFETY DEVICE, for pump, Ref 2001733</p> <p>Components</p> <p>1 Botte/ jar 250ml, polisulphone</p> <p>1 Lid with patient connector Ø 6-10mm, two clips and one overflow protection device</p> <p>2 Connecting tube, silicone</p> <p>size: external Ø 12mm, internal Ø 7mm, length 30cm + 2 connectors</p> <p>All components are reusable and autoclavable at 134°C</p> <p>(suction, elec., b30/vario) TUBE SUCT., d.12x7mm/2m, silicone.</p> <p><b>SuctionTubing</b> (between operation field and suction machine) reusable</p> <p>Size: external Ø 12mm, internal Ø 7mm, length 2m</p> <p>Material silicone,</p> <p>Autoclavable at 134°C</p> <p>TUBE, SUCTION MACHINE, CH</p> <p>25, 1.8m, sterile, s.u.</p> <p><b>SuctionTubing</b> (between operation field and</p>	
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		<p>suction machine) single use  Size: external Ø 12mm, internal Ø 7mm,  length 1.80m, with manual vacuum control  connector  (suction, elec., vario) FUSE T  800 mA, dia.5x20mm  Fuse T 0.8 A Ø 5.0 x 20 mm  (suction, elec., vario) BAG, transport  - Made of strong resistant  waterproof textile  - Multi pocket bag allowing to  store accessories  (suction, elec., vario) TROLLEY, w/  2 fix.rails,  Material: stainless steel  2 standard rails 10x25mm  4 swivelling antistatic castors, 2  with breaks  (suction, elec., vario, trolley) CLAMP  HOLDER, Support fixation clamp, for rails  10x25mm  (suction, elec., vario) FILTER, antibacterial/  overflow, s.u  Overflow protection /bacterial  filter is compulsory for the  suction model not equipped with  reusable safety device</p>	
27	<b>SCHIOTZ TON METER</b>	<p>Should include 3 weights (5.5 gr., 7.5 gr. and 10 gr.),  plunger, stainless steel footplate &amp; test block  All units are autoclavable and are constructed with jewelled  hammers to minimize friction. Scale markings are etched for  accuracy. Scales are inclined, permitting reading from  above. Each unit is supplied with certification so that it  meets the specifications established by the Committee on  Standardization of Tonometers of the A.A.O.O. Individually  packaged in a fitted case with weights and test block.  *Allen Plunger Retractor □ the plunger is held in a retracted  position, flush with the surface of the footplate, until the  tonometer is in place on the cornea.</p>	01

## **ANNEXURE – B**

(Annexure to Tender Form)

### **Instructions to Tenderers and General Conditions for submission of Tenders**

#### **Submission of Tender and Deposit of earnest money**

1. Separate envelopes for technical bid and financial bid (Two Bid System) should be dropped in tender box.
2. Tenderers must fill in their rates in this tender form and return it duly signed in token of their acceptance of the conditions laid down herein.
3. Tenders should be written legibly in ink or type written. No alterations should be made to any of the terms and conditions of the tenders by scoring out, altering or overwriting. Similarly no alterations are permitted in the rates quoted by them. No alterations will be allowed after the tender is received by the Office. Ambiguity must be avoided in filling the tenders. However, any corrections etc, made will have to be duly attested with dated signatures and official seal. The tenders not complying with these conditions will be rejected summarily.
4. Tenderers are required to **deposit EMD @ 2% of the estimated value** of each and every Item as per the notice in total as earnest money with the College of Veterinary Science, Proddatur, YSR District by a crossed Demand Draft drawn in favour of **Administrative Officer, College of Veterinary Science, Proddatur, Payable at Proddatur (any Nationalized Bank)**.
  - a) **All offers without earnest money will be rejected.**
  - b) **Request for adjustment of pending bills / deposits, if any, towards earnest money will not be entertained.**

**Note :** Cheques, Government Security (Stock certificates, bearer bonds, promissory notes, cash Certificates etc.,) will not be accepted.

5. The tenders not confirming to the prescribed terms and conditions of the College of Veterinary Science, Proddatur or conditional Tenders or Tenders which cannot adhere to the prescribed time schedule are liable for rejection.
6. **Samples of the specified quality (with seal stamped on it) and drawings must be sent along with the quotation failing which the tenders are liable for rejection summarily. The furniture item need to be displayed.**
7. Only one kind of sample with rate will be entertained under each item.
8. The specifications and other conditions prescribed in Annexure – A & B of this tender shall also be treated as part of these tender documents for all purposes.
9. The Equipment with specifications prescribed in Annexure – A of this tender shall also be treated part of these tender documents for all purposes.
10. The tender documents are not transferable under any circumstances.
11. Tender forms & bills, should have the APGST, CST & Tin Nos and PAN Nos.
12. PAN Nos should be in the name of firm but not of individual.
13. In case of authorized dealers, tender forms should be accompanied with the valid authorization letters from manufacturers addressed to Associate Dean, College of Veterinary Science, Proddatur without which the tender for the those items shall not be considered.
14. The specifications and other conditions prescribed in Annexure – A (Technical specifications) of this Tender shall also be treated as part of these tender documents for all purposes.

#### **Validity of rates and other Conditions**

1. Warranty period for the goods shall be given for 12 months or more from the date of installation. In the event of any correction of defects or replacement of defective material during the warranty period, the warranty for the corrected/replaced material shall be extended to a further period of 12 months.
2. Tender shall remain valid for a period of 90 days or more from the date of opening of the tender prescribed. In exceptional circumstances, the purchaser may solicit the bidder's consent for an extension of the period of validity. The request and response shall be made in writing / cable / telex / fax / e-mail.



3. The validity of the tender will extend for a period of twelve months from the date of placing the initial order and it shall be open to the College of Veterinary Science, Proddatur to place the orders with the suppliers on the same rates, terms and conditions for any additional quantities likely to be recurred during the period.
4. **The number of items to be procured may be increased or decreased as per the requirement.**
5. The tenderers shall seal the original and two copies of the tender in separate inner envelopes duly marked as “Original” and “Copy” and place all the envelopes in an outer envelope.
6. The inner and outer envelopes shall bear the following address :

**Associate Dean,  
College of Veterinary Science  
Gopavaram Village,  
Proddatur – 516 360.  
YSR District  
Andhra Pradesh.**

7. It should also bear the reference of the invitations for tender mentioned in the advertisement, and a statement.
8. The inner envelopes should also contain the name and address of the bidder.
9. Telex, Cable, e-mail, downloaded application or facsimile tender will be rejected.
10. Tender Documents must be received by the purchaser at the address specified not later than the time and date specified in the invitation (Notification) for tenders. In the event of the date specified being declared as a holiday for the College, the tenders will be received up to the appointed time on the next working day.
11. The tenderers representatives who are present shall sign in the register evidencing their attendance. In the event of the specified date of tender opening being declared as a holiday for the College, the tenders shall be opened at the appointed time and location on the next working day.
12. During evaluations of tenders subsequent to opening, the Associate Dean may at his discretion, ask the tendered for clarification of tender. The request for clarification and the response shall be in writing and no change in prices or substance of the tender shall be sought, offered or permitted.
13. The purchaser's evaluation of the tender will take into account, in addition to the tender price / ex-factory / ex-ware house / off-the-shelf price of goods offered in India. Such price to include all duties and taxes paid or payable on components and raw material incorporated in the goods, excise duty on the finished goods, if payable, and price of incidental services like cost of inland transportation, ex-factory, from the port-of –entry, insurance and other costs within India incidental to the delivery of goods to their final destination. Delivery schedule offered in the tender, deviations in payment schedule from that offered and availability in India, of spare parts and after-sale services for the Equipment offered in the tender shall also be taken in to account.
14. Tender committee is empowered to negotiate the least quoted bidders if necessary.
15. Terms of delivery: The execution as per the details in the tender schedule installed in all respects is required to be completed within 30 days from the date of placing order. **The Equipment should be supplied and installed at College of Veterinary Science, Proddatur, YSR District. A.P.**
16. **The Associate Dean reserves the right to accept/modify/reject any or all the tenders in part/full without assigning any reason**
17. **Financial Bid Annexure – C should be submitted in separate sealed cover. The tender committee shall first open the technical bids of the firms that participated in the tender process and checks for the technical specifications for the item / Equipment quoted. The financial bids of the tenderers / Firms that satisfy the technical specifications shall be opened after finalizing the technical bid by the tender committee. Rates should be quoted in Indian Rupees.**

**Acceptance of tender:**

1. Tenders will be opened on specified date in the presence of such tenderers as may be present. A decision with regard to acceptance of tender, will be taken as soon as possible.
2. The successful tenderer (s) will be intimated by letter(s) or other means of communication and the tender(s) so informed shall be bound from the time transmission of such acceptance by the

Associate Dean. Formal acceptance of the tender(s) will be forwarded to successful tenderer (s) in due course but it will serve merely as a confirmation of the initial information and shall not effect the time from which the offer(s) is / are bound by the contracts.

3. The Associate Dean need not to accept the lowest quotations. Any or all the quotations may be rejected without assigning any reasons. It reserves the right of acceptance in whole or part of the offer made. The officer should justify with reasons the superiority of the article than the articles of the lowest tender. He should furnish reasons on the comparative statement of tenders.
4. The Associate Dean may decide to split the order between two or more firms in a manner convenient to it.
5. Successful tenderer shall execute an agreement in accordance with these terms and conditions.

#### **Security Deposits:**

1. The successful tenderer(s) shall, within 7 days after the Associate Dean's written notice of acceptance of the tender has been posted to him or them, deposit with the Associate Dean, College of Veterinary Science, Proddatur, 2% of the value of the goods required or the authority (Associate Dean) may fix the amount according to the value of the tender as a security for the fulfillment of the contract. **The earnest money deposit / security deposit shall carry no interest.** The security deposit to be deposited will be in addition to the earnest money deposit. **Security deposit shall be paid by Demand Draft in favour of Administrative Officer, College of Veterinary Science, Proddatur payable at Proddatur.**
2. The Associate Dean reserves the right to forfeit and confiscate earnest money deposit, if the successful tenderer fail to pay the security deposit which is required under the terms & conditions of this tender.

#### **Other contractual obligations**

1. The contract shall not be capable of being varied except by written consent by both the purchaser and the supplier and the Associate Dean shall not in the absence of the specific written acceptance be bound by any provisions of the suppliers quotations, offers etc., which purport to impose conditions, at variance with this contract.
2. The suppliers shall not sublet or delegate this contract or part thereof without the written consent of the Associate Dean. Such consent shall not, however, be withheld unreasonably. But the tenderers may, without the consent of the Associate Dean, College of Veterinary Science, Proddatur purchase material which he / they does not normally manufactures.
3. The supplier shall keep confidential all matters concerning this contract and comply with all reasonable security requirements. All drawings, blocks, specifications, manuscripts, samples etc., supplied by the Associate Dean and all copies thereof shall be returned to the Associate Dean when their use is terminated. In no event, the supplier shall permit publicity concerning this contract without the prior consent of the Associate Dean.
4. No undertaking or commitment given by or made by any officer of the Office of the Associate Dean verbally or in writing does not have any validity unless it is signed again by the authority competent who concluded an agreement earlier.

#### **Inspection and Packing**

1. At all reasonable time during production and prior to dispatch of material, the supplier (s) shall afford and secure for the representation of Associate Dean every reasonable access and facility at his plant or premises for its inspection and making of usual tests on behalf of the Associate Dean, if so desired.
2.
  - a) The supplier shall supply to the Associate Dean, on request, a report from time to time as to the progress of supplies. Any delay or anticipated delay will be reported at once together with the full reasons therefore.
  - b) The responsibility of procurement of transport facilities and dispatch of the stocks in good conditions and as per specification and in time / door delivery lies with the supplier and they must keep up the delivery schedule at any rate.
  - c) The insurance should be done at the cost of supplier as the rate quoted is all inclusive for door delivery at the Associate Dean Office at Proddatur, YSR District.

3. Should the progress in supplies be delayed due to any cause beyond the reasonable control of the supplier and whether such delay or impediment occurs before or after the time for dispatch, reasonable extension of time might be granted by agreement between the parties.
4. The supplier shall insert in each case 3 copies of packing list, fully item wise to show case number, contents and full description of the contents. The concerned in-charge of the stores of the Associate Dean at the receiving point will retain one copy with him and return the other two copies, duly signed to the supplier who will append one copy of this packing list with invoices when sent to the concerned for payment.

**Supplies as per Specifications:**

1. All supplies shall be to the description and to the specifications laid down and in strict accordance with the approved samples. Deviations, if any should be clearly brought out failing which it will be normally construed that the materials offered are not to our requirements. Any special features may also be clearly brought out.
2. The decision of the Associate Dean, however, shall be final as to the quality of supplies received and binding upon the suppliers. In case, the supplier(s) supplies any article other than what is ordered, such article supplied, not being approved, shall be liable to be rejected.
3. If the Associate Dean require any changes in specification, the supplier shall use his best endeavor to comply with Associate Dean's wishes subject to fair fixation of prices and delivery schedule where appropriate.
4. If at any time during the term of this contract, the plans of the Associate Dean change for any reason, the Associate Dean shall have the right to terminate or alter this contract by sending fifteen days notice to the supplier(s) by Registered letter. In respect of such of the material, which is complete and ready for dispatch, within thirty (30) days of such notice, the Associate Dean agrees to accept delivery thereof at the contract price and terms.

**Consequences of non-supply and damages.**

1. All risks of loss, damage on depreciation to goods shall be upon the supplier until the material is delivered at the address specified and in accordance with the provisions of the contract. Till the material is received at the respective destination indicated by the Associate Dean, the property continues to be at the risk of the supplier(s). The mere fact that the material is delivered to transporter is no defense to the supplier and the supplier will be squarely held responsible for any delayed receipt of the material by the Associate Dean or for loss or damage of any kind to the material in transit.
2. Assuming that the supplier fails to delivery any or all the materials covered by the contract, the Associate Dean reserves the right in addition to other legal remedies, to cancel the contract or any portion there of and hold the supplier liable for all damages sustained by the Associate Dean by virtue of the supplier failing to perform the contract and consequent cancellation of the contract.
3. In the event of the supplier to complete the supply in time or according to the approved specifications, the Associate Dean reserves the right to make such arrangements as he may think fit for the completion of supplies on account of and at the sole risk of the supplier.
4. In case the goods are not supplied according to specifications and it is decided to retain the inferior goods at the discretion of the Associate Dean, the supplier will be entitled to receive the payment only at the rate fixed by the Associate Dean, after taking into consideration the unsatisfactory quality of the material supplied and not at the rates mentioned in the order.
5. The time allowed for delivery of goods shall be deemed to be the essence of contract. In case the goods are not delivered within the stipulated period, the Associate Dean reserves the right to recover the liquidated damages @ sum equal to 2% of the contract price of the undelivered material per week subject to the maximum of 5% of the value of undelivered material. The Associate Dean also reserves the right to cancel the purchase order incase supplies are delayed beyond the scheduled date of delivery and to make such arrangements as he may think fit for the completion of supplies on account and at the risk of the supplier(s). The Additional expenses thus, incurred together with the consequential losses and also the liquidated damages shall be recovered from the supplier out of his / their earnest money deposit and any other amount due to him/them. The balance still, if any, payable by the supplier shall be paid by him/them within 7 days of notice by the Associate Dean , College of Veterinary Science, Proddatur, YSR District.

All invoices shall be prepared in four copies and shall be signed by the supplier or his/their authorized agents. Every invoice shall bear a certificate to the effect that “the material covered by the invoice has been inspected by the supplier before delivery and conform in every way to the contract specifications and is packed in accordance with the contract requirements and further that the invoice is correct in every respect and no other invoice has been rendered previously in respect of the articles charged in the particular invoice”, The invoices in triplicate shall be sent with L.R. / R.R. by registered post Acknowledgement due direct to the Associate Dean or personally at College of Veterinary Science, Proddatur, YSR District.

**Forfeiture / Refund of the earnest money deposit / Security Deposit.**

1. In case the selected tenderer (s) does not supply the stores at the quoted rates within the period of contract and commits any breach of any one or more of these terms and conditions, the Earnest Money Deposit money deposited by the Tenderer (s) will be forfeited.
2. Earnest Money of the unsuccessful Tenderer(s) shall be refunded within one month from the date of decision regarding the tenders. No interest is payable by the Associate Dean on such deposits.
3. The Earnest Money deposited by successful Tenderer(s) shall be retained by the Associate Dean till three months after the expiry of the contract period, i.e. 12 months from the date of acceptance of the tender or the date on which the supply which may arise in consequence of repeat orders placed during the 12 months for which the rates quoted are to remain valid.
4. On due performance and satisfactory completion of the order in all respects during the contract period, the Earnest Money Deposit will be refunded to the Contractor (s) without interest within a period of 3 months with effect from the date of receipt of a request to this effect from the supplier(s).

**SETTLEMENT OF DISPUTES**

1. Any difference or dispute arising out of or in connection with this tender or acceptance thereof the contract that may be entered in consequence thereof, shall be decided by arbitration. The Associate Dean, College of Veterinary Science, Proddatur, YSR Dist., A.P. or his nominee shall be the sole arbitrator and the arbitrator's decision shall be final and binding on the parties. The Tenderer(s) will have no objection to such appointment, on any ground whatsoever including that such nominee, in his official capacity dealt with this matter at any stage.
2. The parties hereby agree that in the event of any dispute no cause of action shall arise in their favour to approach any court unless they have resorted to an exhausted the remedy or arbitration as envisaged above.
3. The parties also do hereby agree that the contract envisaged by these terms and conditions shall be deemed to have been entered into at Proddatur and the courts at Proddatur alone will have jurisdiction to try and legal proceedings which may arise out of this contract. Neither party shall file any proceeding in any other court.

Date:

SIGNATURE OF THE TENDERER

SEAL :

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**ANNEXURE – C**

**(Financial bid)**

**(To be used by the Tenderers, keep in a separate sealed envelope with superscribing on envelope as FINAICIAL BID )**

**TENDER FORM**

**(To be used by the Tenderers)**

From

To

The Associate Dean

College of Veterinary Science

Proddatur, YSR district (Andhra Pradesh)

Sub: Supply and installation of “Laboratory Equipment and Furniture for College of Veterinary Science, Proddatur” – Tender – Regarding.

Ref:1) Your Tender Notice No. \_\_\_\_\_, dated \_\_\_\_\_

2) EMD – D.D. No. \_\_\_\_\_ Dated \_\_\_\_\_ for Rs \_\_\_\_\_

\*\*\*

I/We have read the contents of the terms and conditions mentioned in your tender schedule and its enclosures and agree to abide by the same.

I/we hereby offer to supply the articles prescribed in the schedule (of such portion thereof as you may specify on the acceptance of tender) at the price given below.

I/We agree to hold this offer open for a period of twelve months from the date of acceptance of tender and shall be bound by communication of acceptance dispatched with in a period of 30 days from the date of opening of tenders.

I/We have also examined the requisite specifications of the material to be supplied and my/our offer is to supply the required material in accordance with the requisite specifications.

I/We have carefully considered all terms and conditions given in **Annexure A, B and C** and particulars regarding settlement of disputes and we have signed the same in token of consciously accepting the same and do hereby state that we accept them without any reservations and accordingly.

I/We quote the rates inclusive of all taxes, duties, transportation, insurance, installation etc., as below **(Quote the price in this sheet and the same should be sealed in separate envelope)**

**Note. Enclosed EMD Demand Draft to this financial Bid (Annexure – C)**

[illegible]


The articles will be ready for delivery within \_\_\_\_ days from the date of receipt of firm orders.

Yours faithfully,

*(Signature and stamp of the Tenderer state legal status whether*  
*prop.* Partner,  
Registered firm, Company etc)

**Encl:** Information brochure enclosed  
EMD – DD No.                      Dt.                      For Rs. \_\_\_\_\_

**Note:** *Attach additional sheets giving full particulars such as name and address of the proprietor or list of partners and their addresses or particulars of registered firm or of the company and the specifications of the equipment furnished.*



**SRI VENKATESWARA VETERINARY UNIVERSITY**  
**COLLEGE OF VETERINARY SCIENCE**  
**PRODDATUR - 516 360.**  
**YSR DISTRICT, ANDHRA PRADESH**

Telephone No : 08564 – 248076

TENDER REFERENCE : Lr.No.2330/B/2015,  
Dated: 09.10.2015.

Date of Commencement of sale of Tender forms : 12.10.2015

Last date and time for sale of Tender forms : 16.11.2015, 04.00 P.M.

Last date & Time for receipt of Sealed Tenders : 17.11.2015, 10:30 A.M.

Time and date of Opening the Tenders : 17.11.2015, 11:00 A.M.

Place of opening the Tenders : Office of the Associate Dean,  
College of Veterinary Science,  
Gopavaram Village,  
**PRODDATUR – 516 360.**  
YSR District  
Andhra Pradesh.

Address for communication : Administrative Officer,  
College of Veterinary Science,  
Gopavaram Village,  
**PRODDATUR – 516 360.**  
YSR District.  
Andhra Pradesh