

CORRIGENDUM

Please refer to e-tender notice no. 1/2018-19 published in newspaper, dated 31-5-2018 . The item at Sr. No. 2 in above tender notice i.e. Portable Black and White Ultrasound Scanner for veterinary use (One) may now be read as Portable Color Doppler Ultrasound Machine for veterinary use (One) . All tenderer may note the above.

NOTICE INVITING e-TENDERS
eproc.punjab.gov.in
Directorate, Animal Husbandry, Punjab ,Livestock Complex, Sector-68, SAS Nagar.
e-Tender/ Notice 1/2018-19

The Department of Animal Husbandry, Punjab, Livestock Complex, Sector-68, SAS Nagar, invites e- tender on Double bid system for following items as per terms and conditions detailed below:-

Sr.No	Name of Item	Quantity
1	60mA High Frequency Portable X-Ray Machine for Veterinary Use	One
2	Portable Black and White Ultrasound Scanner for veterinary use	One
3	BIOLOGICAL MICROSCOPE WITH LED ILLUMINATION	One
4	Veterinary Computed Radiography System	One
5	100mA Mobile X-Ray Machine with Table for Veterinary Use	2 Nos.
6	Digital Binocular Microscope with imaging system	2 Nos.
7	Serum Analyzer for Veterinary Use	4 Nos.

Sr.No	Name of Item	Quantity
8	Fully Automated 3-Part Differential Hematology Analyzer for VET use.	One
9	Liquid Nitrogen Biological Container 3 to 4 Ltrs. Capacity	85 Nos.
10	Liquid Nitrogen Biological Containers 35 Ltrs. Capacity	3 Nos.
11	Liquid Nitrogen Storage and Transportation Containers 50 Ltrs. Capacity	10 Nos.
12	Polypropylene Vaccine Bottles Capacity 300ML. with suitable rubber corks & aluminum seals.	1.50 Lac Nos.
13	Haffkin Flasks Capacity 4 Ltrs.	250 Pcs.

1. The e-tenders should be submitted online till 25/06/2018 upto 5:00 pm and the same will be opened on 26/06/2018 at 11:00 am. For other term and conditions, please visit website <http://eproc.punjab.gov.in>.
2. E- Tender details can also be obtained from the Departmental website www.husbandrypunjab.org
3. Corrigendum , if any will be upload on above websites only.

FAX No: 0172-2217084
Telephone No. 0172- 2217083
Website www.husbandrypunjab.org

Director Animal Husbandry,
Punjab.

Tendering Procedure.

It will be a two stage tendering. The technical tenders and financial/commercial tenders will have to be submitted AS PER E -TENDERING PROCEDURE.

The Technical Bids should contained detail information on the following: -

- *Nature of Ownership.*
- *Composition of the Firm.*
- *Bankers Name & Address.*
- *GST No.*
- *PAN/TAN No.*
- *Tax clearance.*
- *Whether Manufacturer/Sole Selling Agent/Distributor/Authorized Dealer.*
- *Experience in line.*
- *Capability/Capacity to service the requirement.*
- *Details of relevant infrastructure.*
- *Arrangements of after sale service.*
- *List of Clients.*
- *Quality Assurance/Monitoring system followed.*

Certificates where needed should be attached duly attested.

Financial/Commercial Bids.

Financial Bid should contain the price quoted per unit. The following information should be clearly given in the Financial Bid:-

- *Price per Unit.*
- *Place of Delivery.*
- *Status of Taxation/Duties, GST etc.*
- *Lead time/Delivery Period.*
- *Packing & forwarding.*
- *Mode of Transportation.*
- *Payment condition.*
- *Warranty/Guarantee.*
- *Validity of Offer.*
- *Acceptance of Terms of N.I.T.*

- Details of Earnest money attached.

Financial Bids will be opened only of those tenderers, who qualify and are found suitable during the processing of Technical Bids.

TERMS AND CONDITIONS

1. E-Tenders are invited for the supply of the items listed from 1 to 13 for the department through the e-tendering process of Govt. of Punjab. For additional details such as items specifications, important dates etc visit the website: **<http://eproc.punjab.gov.in>** Tender form, specifications, terms and condition can be obtained from this website on payment of Rs. 20/- (online payment) as per e-tendering procedure.
2. Tender shall be accepted only from manufacturers/authorized dealers.
3. The tender will be in double bid system i.e. Technical/Pre-qualification Bids and Financial/Commercial Bids .The Technical Bid should contain comprehensive technical details of the item (Brochure/Catalogue), profile of the manufacturer/supplier, main current clients, experience, tentative delivery period. Financial/Commercial Bids should contain the price (inclusive GST), terms and conditions. Technical Bids would be opened first and Commercial Bids will be opened subsequently of only those tenders who qualify in the Technical Bids. Incomplete/conditional Tenders not received as per e-tendering procedure will be out rightly rejected.
4. The bidder must enclose attested copies/proof of consisting, Pan Card, TIN No., Service Tax No., GST, EPE, Registration/Authorization of the firm etc.
5. The bidder firm should not be black listed/debarred by any department/ organization
6. The e-tenders should be submitted online till 25/06/2018 upto 5:00 pm and the same will be opened on 26/06/2018 at 11:00 am.
7. The e-tender must be accompanied with earnest money amounting Rs. 500/- (online payment) as per e-tendering procedure.
8. Tenderers are also required to submit a hard copy of the technical bids of this tender on or before the closing date 25/06/2018, upto 5:00 pm at the office of the under signed i.e. Directorate, Animal Husbandry, Punjab ,Livestock Complex, Sector-68, SAS Nagar.
9. The undersigned reserves the right to accept or reject one or all offers/tenders and holds the discretion to increase/decrease the quantity of any or all the items.
10. Samples of items (where required as per specification) should be submitted to the Office of Deputy Director, Animal Husbandry, Veterinary Vaccine Institute , Ludhiana before closing date of tender (25/06/2018 upto 5:00 pm) and sample receipt certificate should be enclosed along with tender documents. Otherwise tender will be rejected straightway.
11. Successful tenderers will have to submit a Security deposit of 10 % of the ordered value within the stipulated period of time after issuance of orders.
12. For participating in the above e-tender, the contractors shall have to get themselves registered with **<http://eproc.punjab.gov.in>** and get user ID & password. Bidders who have not registered with e-procurement portal need to get registered by paying the requisite registration fee for e-tender participation and obtain Class 3 Digital Signature Certificate (DSC) which are mandatory to participate in the e-tendering process. For any clarification/difficulty regarding e- tendering Process please contact on helpdesk at Room no. 313, 2nd floor, Academic Block, MGSIPA, Sector-26, Chandigarh 0172-2791226, 2791326, E-mail : **[eproc@ Punjab.gov.in](mailto:eproc@Punjab.gov.in)**
- 13 Bidders are also required to pay tender processing charges of Rs. 2,280/- or an estimated amount as per tender which are to be deposited. (This tender processing fee/charges are other than the firm registration amount for Digital Signature Certificate DSC).
14. E- Tender details can also be obtained from the Departmental website **www.husbandrypunjab.org**.

- 15 *Tender shall be accepted only from manufacturers/authorized dealers.*
- 16 *Rates should be quoted in Indian Rupees only, FOR anywhere in Punjab/Chandigarh.*
- 17 *All applicable taxes should be included in the quote.*
- 18 *Brochure/leaflets/catalogues for equipments should be submitted alongwith tender.*
- 19 *Trouble free performance of the equipment for a minimum period of two years from date of commissioning should be guaranteed . Any defect intimated should be attended to and rectified within 15 days of receipt of such communication within guarantee period. The guarantee shall include cost of spares and labour.*
- 20 *The supplier should give an undertaking that they will be responsible to carry out the preventive maintenance and to repair the equipment during guarantee and post guarantee period.*
- 21 *Full details of after sale service offered during the post guarantee period should be furnished alongwith tender specified.*
- 22 *Information of actual users of the equipment in India supported with evidences and performances should be furnished alongwith tender.*
- 23 *If required the working of the equipment must be demonstrated in any place to be specified by the supplier.*
- 24 *The supplier shall train to the satisfaction of the purchaser one or two technicians at site/factory for operating, servicing and undertaking minor repairs without extra cost.*
Supplier will have to deposit 10% value of the total price of the items in the form of Demand Draft/FDR payable at Chandigarh in the name of Director, Animal Husbandry, Punjab, within 10 days of receipt of supply order as security money.

Specification for e-tender notice no. 1/2018-19

1 60mA High Frequency Portable X-Ray Machine for Veterinary Use . 1No.

- *The machine should have maximum output of 3.2 KW.*
- *Voltage Range should be 40 to 100 KV with steps of 1KV/ Step*
- *mA Should have range of 25-60/5 steps.*
- *mAs Should have range of 0.4 to 100/ 25 steps.*
- *Tube should have a focal spot of 2 x2 (mm)*
- *Tube should work on power supply of 200-240 V single phase.*
- *The machine should not weigh more than 13 kg and should be easily transportable from one place to other.*
- *Machine should have a remote control function by hand switch.*
- *Should have Digital display of mAs & KVP*
- *Machine should be slim and compact.*
- *It should be provided with built in SID measurement tape.*
- *It should be provided with a carrying case.*

- *It should be provided with at least 700 anatomic programming radiography settings .*
- *Machine should have dual laser pointer.*
- *Machine should be supplied with three lead apron, one pair lead hand gloves, one patient body thickness measuring scale and 2 neck shields*
- *It should be supplied One light weight, durable, movable temporary mounting stand with castor wheels.*
- *The company should be ISO certified.*
- *The unit should approved by BIS/ AERB //FDA/ European CE*
- *The company must provide technical exposure chart of each machine*
- *The company should provide minimum two year Guarantee/Warranty from the date of installation.*
- *The company should have local Service center.*
- *The supplier should be able to demonstrate the product as and when required at the place where specified.*
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2. *Portable Color Doppler Ultrasound Machine for veterinary use.*

1no.

- *The system must be USFDA/CE approved high end with fully digital technology equipment to incorporate the facility of Doppler, power Doppler, directional power angio, imaging for abdomen obstetrics and gynae peripheral vascular and superficial parts of small animals.*
- *System must be offered with a very high dynamic range of at least 232 db to pick up subtle echoes. Dynamic range in DB must be mentioned in technical bid. System must be offered with different operating modes, B mode, M mode, B/M mode, Doppler mode, Power Doppler mode, Color flow, B/color flow, PW Doppler.*
- *System should be offered with micro convex, convex and linear probs with frequency of at least 1 to 15 MHz with at least 4 active ports connectivity.*
- *System must be offered with minimum of 1024 digital processed channels. B mode and B color simultaneous should be available side by side real time display of B mode and color flow.*
- *Digital zoom facility for area of interest in real time and frozen images.*
- *Image storage facility on inbuilt hard disk or MOD/CD/DVD-RW facility should be available.*

- *System should have in built hard disk with minimum capacity of 500 GB.*
- *Cine loop as well as sine scroll facility in B mode with storage of 800 or more images should be available. Cine loop frames should also be available for abdominal contrast applications.*
- *System should have state of art Transmit Real Time Compound Imaging Technology.*
- *System should have at least four imaging universal active probe ports with electronic switching facility from key board*
- *System must be offered with Speckle Reduction Imaging feature. software to calculate fetal size and gestation length in different species must be provided.*
- *System must be offered with a minimum 15 inch High RESOLUTION Flat Panel Medical grade Display monitor with nearly infinite position adjustments.*
- *System should be capable of scanning depth of 30cms .System should be offered with 2D frame rate of 1000 frames/second and color frame rate of 350/sec.*
- *The system should have up gradation path with the 4D and relevant software to have volume convex probes plug and play.*
- *2-5MHz (+/-1MHz) broadband Convex transducer must have excellent tissue Harmonic Imaging for excellent Image quality.*
- *3-8 MHz broad band sector/ echo transducer for adult and small dogs cardiology imaging . Must have tissue harmonic imaging for excellent image quality .*
- *Micro convex transducer with frequency range of 5-8 MHz (+/-1MHz) for excellent image quality in small animals.*
- *The system should be DICOM ready. System should have capability of RIS and HIS connectivity and should also be connected to the dry chemistry printer available in the department (CR/DR system/ CT). Should provide advanced DICOM connectivity to an enterprise data management system or PACS with advanced DICOM features. System should be installed with DICOM on the computer being supplied*
- ***System should be supplied with the following accessories/features***
- *System should be having Thermal B/W Printer.*
- *2 KVA ONLINE UPS must be there*
- *One reusable stainless steel biopsy Kit for convex Probe*
- *Two Year comprehensive Warranty from the date of installation*
- *Company offering the products should be reputed one (GE/Philips/Siemens/Toshiba/Hitachi etc) with at least 100 installations in Punjab and installations in reputed research institutes like PGI Chandigarh, AIIMS, GADVASU*

etc. (please give list of installations). Company should have Service centre in Chandigarh, preferably in Punjab.

- The company should be ISO certified and machine should be FDA/ CE approved.
- The supplier should be able to demonstrate the product as and when required at the place where specified.
- The company should provide the list of veterinary users.

3. Biological Microscope with LED Illumination

1 Nos.

OPTICAL SYSTEM: Built in LED transmitted illumination system 0.5 W LED

FOCUSING: Stage height movement {Coarse movement stroke. 20mm} Fine focus graduation 2.5 μ m.

Revolving Nose piece: Fixed quadruple nosepiece.

Stage: Wire movement mechanical fixed stage 120x132 mm. Travelling range:76 mm(x) x 30 mm(y). Single specimen holder.

Observation Tube: 30 degree inclined binocular tube. Interpupillary distance adjustment range 48-75 mm.

Condenser: Abba type with aperture iris diaphragm N.A :1.25

Objectives: Plan achromatic objectives(antifungus)

4x N.A: 0.10 WD:18.5mm

10X N.A: 0.25 WD:10.6 mm

40x N.A:0.65 WD:0.6 mm

100x oil N.A:1.25 WD:0.13 mm

Eyepiece: Field Number (F.N): 18 (antifungus)

Accessories: Mirror unit, a pair of 15x eyepiece (FN 18, antifungus), wooden storage box, filar micrometer, wire pointer, filter holder, darkfield stop, cord rest, dust cover, USB cable.

Weight: Approx 6 kg

CE and UL approved . Both certificate should be attached.

Other Requirements:

- The company should provide minimum two year Guarantee/Warranty from the date of installation.
- The supplier should be able to demonstrate the product as and when required at the place where specified.

- *The company should have local service center for providing after sale service.*
- *Companies offering the product should be reputed one like Olympus, Nikon and Carl Zeiss etc.*

4 Veterinary Computed Radiography System

1 Nos.

- *System must achieve minimum through put of 45 plates/hour .*
- *System must have Veterinary Software and presentation of same with documented proof.*
- *System must be approved by ECE/ USFDA for Radiology application*
- *Digitizer work station, Imager and all software should be from parent manufacturing company .*
- *System should have skyline box for Navicular skyline x-ray. The box should be completely sealed for cassette protection .*
- *System should be supplied with distance cassette holder for cassettes of 10"x 12" and 14"x 17".*
- *System must be Single Plate Scanning CR solution*
- *System Should be able to upgrade the cassette scan speed in future*
- *Monitor can be any of the ones available as std LCD ,LED or Touch screen*
- *Monitor resolution must be at least 1280X1024*
- *System must offer 2no. of plates of size 14x17" and 10x12" each*
- *Gray scale resolution for image acquisition before processing must be 12 bit*
- *Gray scale resolution for post processed images must be at least 12 bit*
- *Software automatically masks the area outside the collimation edges for better productivity.*
- *Manual adjustments of the masked area should be possible*
- *System must be capable to connect to PACS through Dicom Store*
- *System must be capable to print to dry Imager through Dicom Print*
- *System must be capable of running a QA/QC test to verify performance*
- *Images could be rotated at different angle.*
- *System must be capable to export images to media such as USB, CD Rom etc*
- *System must be capable of importing images into the database from various media type such as USB sticks, CD rom etc*
- *System offers the capability to crop images, zoom and print*
- *Printer Should Have Single online supply tray.*
- *Each tray or Draw of the printer must be able to print the following international standard films sizes 8X10",10X12",11X14" and 14X17" without mechanical alteration*

- *Printing resolution must be 300 dpi/ppi or more standard for all type of DICOM image printing.*
- *System should be supplied on trunk basis with necessary split AC 1.5 ton battery backup 3KVA, table, chairs etc. in such a manner that all equipment should be conveniently placed on a table with chairs.*
- *Printer must use day light loading technology.*
- *Guarantee/ Warranty of the system should be three years.*
- *Veterinary user list to be enclosed along with tender .*
- *The supplier should be able to demonstrate the product as and when required at the place where specified.*
- *Product catalogue should be enclosed along with the tender .*
- *Companies having Care Stream, Fuji, Konica, IDEXX and AGFA like product can apply.*

**5. 100mA Mobile X-Ray Machine with Table
for Veterinary Use .**

2 Nos.

100mA-100 KVP, full wave rectified X-Ray generator Anode X-Ray tube.

Output Should be 8 KW as per ISI (7620 part-I).

Different radiography rating to be mentioned.

KVP Range should be between 45 to 100 KVP in steps of 5 KVP/step.

Timer should have timing range from 0.04 to 8 sec. in 24 steps.

Digital display of mAs, KVP and Radiographic mA.

Independent Voltmeter to indicate line voltage, mA meter, Voltage compensator to compensate voltage should also be provided.

Tech. Selector for selection of Rad mA, KVP selector from 45 to 100 & time selector switch for selection of Rad. Time.

Ready & X-Ray switches, Bucky selector switch should be provided.

Push to ON/OFF type switches should be provided.

Automatic trip OFF overload circuit breaker should be provided.

Electronic overload protection with simultaneous protection from high input voltage/KVP/mA/Time should also be provided.

Fuses for all circuits must be provided in the machine.

Tube head should be Anode X-Ray Tube BEL having spot 0.8mm x 0.8mm, Compact heavy duty Full Wave Rectified H.T. Transformer High Voltage Silicon Rectifiers etc. all should be immersed in High Grade Transformer oil.

Tube Head Should be tilted 360⁰ degree with full flexibility for use in operation theaters and in ward for bedside radiography.

Manual Light beam-cum-shutter diaphragm. Hand switch with retractable Aluminum filter.

Mobile Stand with large caster wheels should be provided for easy mobility and steering. Counter Balanced stand Should have articulated tube carriage allowing smooth movements of the tube head in Vertical and Horizontal Plane Lead Lined cassette storage box should be provided. Double steel rope should be provided for safety.

The unit should operable on single phase 220/230 volts AC supply.

Horizontal Bucky Table for over couch and bucky Radiography of various body parts. The Table should consist of motorized reciprocating bucky with Grid of size 17 1/4" x 18 7/8" having Grid Ratio of 6:1,60 lines/Inch & a stainless steel cassette tray. The bucky should travel the entire length of the table and can be locked at any desired position by the lock. The Table top Should be made of low radiation absorption, waterproof material. Compression Bank (Immobilizing device) should be provided with the table. Instrument should be supplied with one lead apron, one pair lead hand gloves, one body thickness measuring scale and one neck shield

Other Requirements:

The company must provide technical exposure chart of each machine .

The company should provide minimum two year Guarantee/Warranty from the date of installation and subsequent AMC rates may be quoted.

The company should be ISO certified.

The unit should approved by BIS, AERB and CE/FDA.

The company should have local Service center.

The company should have proven track record in Govt. sector from last five years in similar equipment and list of veterinary users should be supplied with the tender documents. Proof of this to be submitted alongwith Technical Bid. Catalogue showing technical specification to be enclosed with tender.

The supplier should be able to demonstrate the product as and when required at the place where specified.

6. Digital Binocular Microscope with imaging system

2 Nos.

Stand: Single mold sturdy stand with anti rust materials. Extended base with hand rests for enhanced stability and comfort

Viewing Bodies: Siedentopf Binocular tube, 30° inclined, 360° rotatable, interpupillary distance 48-75mm.

Eyepieces: Wide Field focusable paired eyepiece WF 10x/20mm, with foldable eye guard, lockable, anti-fungal coating.

Nosepiece: Reverse angle quadruple nosepiece (Ball bearing type) with click stops and rubber grip.

Objectives: RP series DIN Infinity corrected plan Achromatic objectives 4x, 10x, 40x (spring loaded), 100x (spring loaded, oil), anti-fungus coating

Mechanical Stage: Mechanical stage with Co-axial drive, highly smooth on Ball slides, stainless steel holders for Slide 75 x 50mm movement.

Condenser: Sub-stage Abbe condenser NA 1.25 with aspheric lens. Iris diaphragm with snap-in blue filter. Rack and pinion movements on metal guides.

Focusing: Co-axial coarse and fine focusing on ball drive system for smooth movement.

Illumination: Halogen 6V-20W illumination with variable illumination control. Up to 2,000 hours of halogen lamp life.

Electrical: Universal input 100V-240V AC .

Camera Specifications: Inbuilt digital camera module > 5.0 mega pixel

CMOS Sensor: 1/3" color CMOS sensor

Effective Pixels: 1280 (H) x 960 (V)

Scanning system: Progressive scan

Frame speed: 15 fps at 1280 x 960

Mount: With C mount, automatic shutter, Automatic White Balance

Communication protocol: USB v2.0/3.0

Operating system: Windows™ 10 or above

Image analysis software for image capturing, analysis and measurement. Features include user friendly installation; Capturing: Still , Video, Time lapse video & still capturing, Mosaic, Multi focus capturing, Binder File; Image management & archiving; Image filters: Blur, Smooth, Emboss, Engrave, Sharpen custom filter; Image processing: Brightness, Contrast, Gamma, Saturation; Annotations: Circle, Line, Square, ellipse, Text (with Back ground color), Marker; Measurement Tools, Angle, Circle, Line, Square, ellipse, rectangle ; Calibration: Auto, Line, Circle; Quick View; Region of Interest; Report Design Template; Attributes; Mosaic; Amalgamation; Color Segmentation; Sketch/Flip; Color Scheme; Cell Counting

Package: USB cable, software CD Packed in styrofoam box, with operation manual, allen wrench, dust cover, cleaning cloth, power cord, spare bulb (4 nos.) and spare fuses .

Complete with PC-coloured LCD/LED monitor(min. 17 inches), key board, original licensed window 10 or above . Microscope should be CE marked and UL approved.

*Both certificates should be attached other wise tender will be ignored straight way.
Guarantee/Warranty for 2 years.*

List of veterinary users and Original Catalogue Showing Technical Specification should be enclosed along with tender.

The supplier should be able to demonstrate the product as and when required at the place where specified.

7. Serum Analyzer for Veterinary Use . 4 Nos.

Capable of performing the various biochemical and immunoturbidity tests.

Based on Window OS with mouse and Querty keypad on board.

Should have atleast 6 filters (340, 405, 500, 546, 578, 620nm) and six position for optional filters.

Should have sufficient memory to store data of more than 1500 patients.

Compatible through PC.

Large LCD display screen not less than 7”.

Online Graphics facility, mouse and/external keyboard facility.

On board high quality graphical printer should be there

It should have Flowcell and Cuvette mode.

Lamp saving function should be there.

0 to 2.5 OD measurement range.

Flow cell capacity of 25 to 30ul, Flow cell temperature peltier controlled and programmable at 37⁰ C. Supplied with one test kit each for tests of sugar, Urea, Uric Acid, Creatinine, SGOT, SGPT, Potassium Chloride, Amylase, Alkaline Phosphate, total protein, albumin, total bilirubin .

Warranty Two years.

List of veterinary users and Original Catalogue Showing Technical Specification should be enclosed along with tender.

The supplier should be able to demonstrate the product as and when required at the place where specified.

8. Fully Automated 3-Part Differential Haematology Analyser for VET use. One

- *Fully Automated 3-Part Differential Double Chamber Haematology Analyser dedicated for Veterinary Applications.*
- *Throughput should not be less than 60 samples/hour.*

- *It should have inbuilt Reagent pack (All Reagent should be Cyanide Free) to perform 150 test*
- *It should have at least 18 parameters;
WBC, LYM% LYM #, MON% MON #, GRA% GRA #, RBC, HGB, HCT, MCV, MCH, MCHC, RDW, PLT, MPV, PCT, PDW, RBC Curve, WBC curve, PLT curve*
- *It should be supplied with external printer (Laser/inkjet)*
- *System should have test program available for 10 species – Dog, Cat, Horse, Cattle, Swine, Sheep, Goat, Rabbit, Rat and option for 10 other species can be set up by the user.*
- *System must have facility of auto and manual Calibration*
- *System must have perfect Quality Control feature.*
- *System must have Internal Memory of 1000 samples and Mass Storage (USB) up to 50,000 samples.*
- *System should have facility for Reagents Monitoring.*
- *It should have Flagging for Pathologic samples*
- *System must have facility for adjustment of Lab limits.*
- *Supplied system must have two years warranty*
- *System should use low sample volume <10ul to complete t Assay*
- *System should have TFT / LCD screen with numeric keypad to display result on screen along with histogram.*
- *System must have Menu with Icons for direct access to main species*
- *System should be European CE marked.*
- *Veterinary User list to be enclosed along with tender.*
- *System to be supplied with external printer.*
- *Product catalogue should be enclosed along with the tender .*
- *Guarantee/ warrantee for 2 years .*
- *The supplier should be able to demonstrate the product as and when required at the place where specified.*

**9. Liquid Nitrogen Biological Container
3 to 4 Ltrs. Capacity**

85 Nos.

- | | |
|---------------------------------|--------------------------------|
| 1. Capacity of LN Container | Between 3-4 Litre |
| 2. Neck dia | 50mm+/-2mm |
| 3. Static Evaporation Loss rate | Not more than 0.150 litres/day |
| 4. Static holding time | Not less than 30 +/-1 days |
| 5. Number of Canisters | 6 (Six) |

6. *Straw holding capacity in single level not less than 1500 straws of 0.25ml capacity*

The container should be ISI Marked and relevant certificate should be attached with tender. The original product catalogue showing the detailed specifications must be attached with tender application.

The container must be offered with one year replacement guarantee including transportation cost involved in the replacement of defective container. The concern should have experience of supplying this container to bulk consumers in India, for which necessary documents must be attached. The manufacturing firm should have after sales their service centers in India to provide after sales service and all relevant details should be provided in tender.

10. *Liquid Nitrogen Biological Containers* **3Nos.
35 Ltrs. Capacity**

- | | |
|--|---|
| 1. <i>Capacity of LN Container</i> | <i>Between 32.5 to 35 Litre Litre</i> |
| 2. <i>Neck dia</i> | <i>51mm+/-2.5mm</i> |
| 3. <i>Static Evaporation Loss rate</i> | <i>at 15 degree centigrade not more than 0.120 litres/day</i> |
| 4. <i>Static holding time</i> | <i>at 15 degree centigrade not less than 280 days</i> |
| 5. <i>Number of canisters</i> | <i>06 (Six)</i> |
| 6. <i>Straw holding capacity in Double Level 0.25ml capacity</i> | <i>Not less than 3100 straws of</i> |

The container should be ISI Marked and relevant certificate should be attached with tender. The original product catalogue showing the detailed specifications must be attached with tender application.

The container must be offered with one year replacement guarantee including transportation cost involved in the replacement of defective container. The concern should have experience of supplying this container to bulk consumers in India, for which necessary documents must be attached. The manufacturing firm should have after sales their service centers in India to provide after sales service and all relevant details should be provided in tender.

11. Liquid Nitrogen Storage and Transportation Containers 50 Ltrs. Capacity

10 Nos.

- | | |
|---------------------------------|-------------------------------|
| 1. Capacity of LN Container | Between 50-52 Litre |
| 2. Neck dia | 50mm+/-2mm |
| 3. Static Evaporation Loss rate | Not more than 0.50 litres/day |
| 4. Static holding time | Not less than 110 days |

The container should be ISI Marked and relevant certificate should be attached with tender. The original product catalogue showing the detailed specifications must be attached with tender application.

The container must be offered with one year replacement guarantee including transportation cost involved in the replacement of defective container. The concern should have experience of supplying this container to bulk consumers in India, for which necessary documents must be attached. The manufacturing firm should have after sales their service centers in India to provide after sales service and all relevant details should be provided in tender.

12. Polypropylene Vaccine Bottles Capacity 300ML. with suitable rubber corks & aluminium seals. 1.50 Lac

CAPACITY:- Polypropylene Vaccine Bottles should be in rectangular shape having 250ml. filling capacity and 300ml. overflowing capacity. The weight of bottle should be 30gm. (± 2.0 gm.). The level mark at 250ml. should be emboss-marked in the body of bottle itself.

MATERIAL: Rectangular bottles (Polypropylene) should be made from copolymer polypropylene medical grade material (Virgin plastic material) which must be surface neutral for parental use.

TRANSPARENCY: P.P. bottles should be sufficiently transparent for the contents to be adequately inspected from outside.

STERILIZABILITY: P.P. bottles should withstand autoclaving at 121°C/15 lb. pressure for 30 minutes without change in shape, structure, colour, transparency, cracking, thickness or any other deterioration.

P.P. bottles must be made from Virgin material only and should be clear without any extra dark dots on inner and outer surface or in a body material

Neck of the bottles must withstand the pressure of sealing machine during sealing.

Inner surface of the bottle must be even and should drain the water completely when inverted.

Rubber corks for bottles should be made of butyl rubber only and these should withstand autoclaving and repeated pricks of needle of No. 16 gauge and should not leak.

Cork size should be 20mm outer diameter with 3.5 to 4mm collar thickness. Inner mouth thickness and size should be according to bottle mouth for firm grip.

Rubber corks should be of colour other than black.

Aluminium seals should be according to bottle mouth and rubber corks for firm grip.

Minimum weight of each Aluminium Seal should be 400 mg. (± 10 mg).

In case the offer is accepted the party will have to emboss/print the bottles as per our requirement. and supply the material as per demand.

Bottles should be packed in 20-50 Nos. in polythene bags of good quality and placed in corrugated box.

Note:- Packing of Aluminium seals and rubber corks should be according to the packing quantity having 1000 Nos. of each Bag/carton of 300ml. P.P. bottles & ten samples of polypropylene vaccine bottles as per specifications

Sample:- The firm should submit 10 samples of P.P. bottles along with Aluminium seals and rubber corks to the office of Deputy Director, Animal Husbandry, Veterinary Vaccine Institute, Ludhiana before closing date of tender and sample receipt certificate should be enclosed with tender documents. Otherwise tender will be rejected straightway.

13. Haffkine Flasks Capacity 4 Ltrs.

250 Pcs.

The borosilicate glass flasks should have O.D (245mm) x Height (310 mm) with Heavy Wall, with minimum weight of 1.5 Kgs. ± 100 gms. The borosilicate glass should bear maximum thermal resistance, thermal shock resistance as well as unusual chemical resistance. The borosilicate glass should not show noticeable absorption and it appears consequently clear and colourless. The Company should be ISO certified.

