



**OFFICE OF THE PROJECT DIRECTOR
SHAHEED BENAZIR BHUTTO UNIVERSITY OF
VETERINARY AND ANIMAL SCIENCES SAKRAND**

at Animal Science Complex, Near Singer Chowrangi, Korangi, Karachi-74900
Tel: 021-35123347, 021-35035857 Email: spvc_asc@yahoo.com



TENDER DOCUMENT

FOR

PROCUREMENT OF

**LABORATORY EQUIPMENTS & MACHINERY, COMPUTER
& PHOTOSTAT, FURNITURE & MISCELLANEOUS ITEMS**

UNDER

DEVELOPMENT SCHEME ADP # 1330

“ESTABLISHMENT OF SHAHEED BENAZIR UNIVERSITY OF VETERINARY &
ANIMAL SCIENCE, SAKRAND AND CAMPUS AT LARKANO PHASE-I”

REF. NO. SBBUVAS/PD/ADP1330/Equip&Misc/14-15..... Karachi, dated:.....

Issued to: SECIO Scientific Traders P.O / D.D No: 11592810

Signature: _____

To be opened on
19.01.2015

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**OFFICE OF THE PROJECT DIRECTOR
SHAHEED BENAZIR UNIVERSITY OF VETERINARY & ANIMAL
SCIENCE, SAKRAND AND CAMPUS AT LARKANO PHASE-I**
at Animal Science Complex Korangi, Karachi-74900 (Near Singer Chowrangi)

FROM:

**Project Director,
Shaheed Benazir University of Veterinary
& Animal Science, Sakrand and campus at Larkano**

TO, _____

**INVITATION TENDER No. SBBUVAS/PD/ADP1330/Equip&Misc/14-15 DUE ON DATED:
19.01.2015**

- 1) You are hereby invited to submit your tender for the stores as per specifications and condition of schedule given in the Tender subject.
- 2) The contract resulting from this invitation to tender shall be governed by the SPPRA Rules 2010 and amendments made there in.
- 3) The tender quoting against this invitation to Tender shall be deemed to have read and understood the conditions there in and particulars of the items and their specifications etc.
- 4) The tender shall quote on the prescribed schedule to this invitation to Tender, on the basis indicated therein and shall sign the certificate given therein. In case there is any deviation, it should be clearly stated and communicated by the tenderer; otherwise it will be presumed that offer is strictly in accordance with the requirements of the tender notice.
- 5) The price quoted shall be inclusive of all taxes (present & future) duties and charges for packing, supply, marking, handling etc.
- 6) The store is required for delivery as stated in the schedule. If, however, it is not possible to give delivery by the specified date, the tenderer shall give guaranteed date by which he can deliver the store.
- 7) Failure to submit the tender in the manner prescribed in the invitation to tender will render the same liable to be ignored.
- 8) The purchaser does pledge himself the right of accepting the full or part of quantity, offered and tenderer shall supply the same at the same quoted rate.



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(PRICE OF TENDER NOT REFUNDABLE)

Schedule of invitation to Tender Inquiry No. SBBUVAS/PD/ADP1330/Equip&Misc/14-15

1. Latest date & time of receipt of Tender 19.01.2015 at 01:00 PM
2. Date & Time of opening of Tender 19.01.2015 at 02:00 PM
3. Place of opening of Tender Committee Room, Project Director, SBBUVAS at Animal Science Complex (Near Singer Chowrangi), Korangi, Karachi-74900
4. Validity of offer 3 months and extended as per SPPRA Rules
5. Name of consignee Shaheed Benazir University of Veterinary & Animal Science, Sakrand and campus at Larkano

The Tender bid applications along with technical and financial proposals in separate sealed envelopes should reach the Project Director, Shaheed Benazir University of Veterinary & Animal Science, Sakrand and campus at Larkano located at Animal Science Complex Korangi, Karachi up to 01:00 pm on 19.01.2015.

The Technical bids shall be accompanied with profile, evidence of Pay order of earnest money, technical details of the bid, credentials and certificates of registration, NTN and evidence of GST paid previously and assignments of the same nature awarded.

The Technical proposals will be opened publically on 19.01.2015 at 02:00 pm in presence of the interested bidders or their authorized representatives in the Committee Room of Project Director SBBUVAS at Animal Science Complex Korangi, Karachi (Near Singer Chowrangi). The financial bid will be opened of only those bidders who qualify the technical bids, later on.

The criteria for technical bid selection shall consists of technical soundness of the bid, meeting the specifications, make, model, quality of items, earnest money, registration, NTN, GST, financial credentials, experience, relevant management and technical staff, and the previous experiences of successful bidding and supply. Those who do not qualify the technical will be returned financial proposals unopened.

STATEMENT SHOWING THE DETAILS OF FUNDS UNDER (DEV. / NON DEV.) MINOR HEADS FOR THE YEAR 2014-15

MINOR HEAD	BUDGET ITEM
Development scheme ADP# 1330, "Establishment of Shaheed Benazir University of Veterinary & Animal Science, Sakrand and campus at Larkano Phase-I"	Plant & Machinery, Computers Parts & Photostat, Furniture & Fixture and Miscellaneous Items

TENDER No. SBBUVAS/PD/ADP1330/Equip&Misc/14-15 DUE ON DATED: 19.01.2015

SPECIAL C ONDITIONS

1. Conditions as per tender notice **SBBUVAS/PD/ADP1330/Equip&Misc/14-15 DUE ON DATED: 19.01.2015** will remain valid.
2. All the firms shall be required to deposit Earnest money equivalent to 2.5% of the value of their offer with their tender in the form of called deposits/ pay order in favor of Project Director, Shaheed Benazir University of Veterinary & Animal Science, Sakrand
3. Registered firms whose registration for the current financial year has not been renewed by the due date of tender shall furnish 10 % for security deposit and will submit the renewal registration within a month.
4. Any cutting/ correction in bid form will make the quotation invalid.
5. The bidder shall mention validity of offer, terms of payment, voluntary period and schedule of delivery. However, no advance payment will be allowed to any successful bidder.
6. The procuring agency reserves the right to obtain clarification in writing from any bidder in respect of item quoted. The replies by the bidder will be recorded and will form part of bid document, as per SPPRA Rules.
7. Supply order/ supply contract will be issued subject to the availability/ release of funds by the Finance Department.
8. The payment shall be made on the supply of items to the store at Shaheed Benazir University of Veterinary & Animal Science, Sakrand on receipt of consignment in full and after physical verification.
9. The contracting firms will be treated under SPPRA Rules 2010; accordingly, in case of failure in supply to stores, it shall be optioned to purchase the item from the second lowest bidder.
10. The tenderers shall sign the below mentioned certificates while quoting their rates failing which the tender/ offer is liable to be considered NO RESPONSIVE.
11. The bid documents should be properly sealed (Technical and Financial bid separately) and tender No. and date of opening may be indicated on the envelope.
12. Price must be quoted in Pak currency per accounting unit, inclusive of all taxes and expenditures. The quoted price will be considered as inclusive of all taxes, transportation and installation charges.

13. Bid must be supported with relevant literature etc. and country of origin, make, and brand should be recorded on bids against the items. The softcopy of the quoted technical specification shall also be enclosed.
14. The firms participating in the tender must be registered with SALES TAX DEPARTMENT and should mention their sales tax registration No. (NTN) along with copy of registration certificate and evidence of latest GST payment.
15. Breakage/ leakage during transport is the responsibility of supplier.
16. Complete service manual/ operating manual/ service diagram should be supplied along with equipment otherwise; supply of equipment will not be accepted.
17. No medicine and chemical will be accepted with the expiry less than one year.
18. The items as per supply order are required to be supplied on their own expenses by successful bidders at Shaheed Benazir University of Veterinary & Animal Science, Sakrand .
19. The payment will be made to the supplier after deduction of income tax, withholding tax, sales tax and award fee in full or part of it on each supply on production of receipt/ certificate to the effect that the items received by the respective officer incharge of the stores of Shaheed Benazir University of Veterinary & Animal Science, Sakrand to whom supply order is made.
20. All the rates quoted must be inclusive of all the taxes imposed by the Government, from time to time i.e., GST etc. (Present and future). The successful bidders has to submit the receipt of taxes to the relevant department, if taxes are deducted in part.
21. All other general conditions do apply as per SPPRA Rules 2010 and amendments made there in.

REF. No. SBBUVAS/PD/ADP1330/Equip&Misc/14-15 DUE ON DATED: 19.01.2015

WE GUARANTEE TO SUPPLY THE STORES EXACTLY IN ACCORDANCE WITH THE REQUIREMENTS SPECIFIED IN THE INVITATION OF THIS TENDER AND FULLY AGREE TO THE TERMS AND CONDITION MENTIONED ABOVE.

SIGNATURE OF THE TENDERER

DESIGNATION.....
Name & Address.....
.....

**LABORATORY EQUIPMENTS & MACHINERY, COMPUTER & PHOTOSTAT,
FURNITURE & MISCELLANEOUS ITEMS**

S. NO.	ITEM	SPECIFICATIONS	QTY.	PRICE /ITEM (RS.)	COST (RS.)
01	Anatomical Dissection Model of i. Cow ii. Horse iii. Dog vi. Chicken	Eco-friendly, non-toxic plastic PVC material, gives elaboration of all systems, visceral organs, muscles and easy to open, demonstrate and pack.	One each		
02	Animal Skeleton of i. Horse ii. Cow iii. Dog iv. Chicken	Life size model, made up of preserved bones or equivalent PVC or other stable material. Showing articulation with relevant bones, tuberosities, processes, joints, fine linings and differential points for comparative veterinary anatomy and specie wise exact no. of bones. The models must be supplied with stand on wheels.	One each		
03	Hematocrit Micro centrifuge (With all Accessories including 02 sets of capillary tubes)	Speed: 12000 rpm, Min. RCF (g): 14,648 Capacity: 24 x capillary tube (Diam.1.5x75mm) Digital Micro Centrifuge with metal housing, Auot-balancing system, with safety interlock, forced fan air convection, precision digital timer: 0~15 minutes 30 sec. increment, with short run option. LED digital display enable user to monitor speed and time with automatic brake system. Percentage Reader (aluminum) Power Supply: 220V 50/60Hz	One		
04	Analytical balance (With all Accessories and operational manual)	Min Pan Size: 180 mm/ 7 in Dia Capacity: 5100 g Readability: 0.01 mg (Made in EU, USA/Japan/Australia or equivalent to the standards of these)	One		
05	Hematology analyzer (With all Accessories and manuals)	Fully automatic hematology analyzer with 19 parameters CBC testing. 13 predetermined animals settings (Cat, Dog, Horse, Mouse, rate, Rabbit, Cow, Buffalo, Monkey, Camel, Sheep & Goat) plus 3 programmable on request. 3 Part differentiation of WBC. 25 Samples/hour (max.). Sample Size	One		

		13µL. Large LCD Screen. Power: 220V (50/60 Hz) (Made in EU, USA/Japan/Australia or equivalent to the standards of these)			
06	Chemistry analyzer (With all Accessories & manuals)	Compatible for canine, feline, equine, bovine, avian, ferret, goat, lizard, llama, monkey, mouse, pig, rabbit, rat, sea turtle, sheep, snake and tortoise species along with their standard reference parameters. Sample size: minimum of 40 micro liter. Autoread with screen and latest software and high throughput. Universal power supply. (Made in EU, USA/Japan/Australia or equivalent to the standards of these)	One		
07	UV Spectrophotometer (With all Accessories)	Optical performance: Wavelength range: 190-510 nm Line frequency: 50-60 Hz Environmental conditions: Operating temperature: 0-40°C (32-104 °F) Non- operating temperature - 40-65 °C (-4-149 °F) (Made in EU, USA/Japan/Australia or equivalent to the standards of these)	One		
08	Autoclaves Gas and Heating System Portable (With all Accessories)	Electric operated Portable Autoclave: Volume: 12 Liters, Sterilizing Chamber Volume: ø240*H200mm Working Pressure: Working Temperature: 126°C Power: 220V, 50 Hz 2KW Time: 0-60 minutes Sterilizing Baskets: 1PCS	One		
09	Hot air oven (With all Accessories)	1PH(50HZ) Load 0.75 Kilo V, 3 AMP	One		
10	Tecator System for Proximate Analysis of Feed stuffs (Compatible and on Turnkey solution basis) (Made in EU/USA /Japan/Australia or equivalent to the standards of these)	a. Kjeltec: (Feed digestion) for analysis of Nitrogen/ (Protein analysis).	One		
		b. Kjeldahl Distillation and titration unit: Fully automatic/ semi-automatic distillation unit for protein analysis. Suitable for Samples such as Raw materials, food, feed & agriculture. Parameters: Kjeldahl Nitrogen/ Protein,	One		

		Ammonia etc. Automatic dilution, Alkali addition, distillation and tube emptying, variable output steam generator. Safe distillation of tubes with salt cake. Built-in safety system for user protection. Self-adjusting cooling water control. Bellows pumps for accurate dispensing of reagents. Alkali resistant plastic splash head and tube emptying.			
		c. Soxhtec Tecator Extraction apparatus, for fat and oil analysis. Fully automated/ semi-automated fast and safe system for food, feed, water and other matrices using Soxhlet method. Capable of performing Boiling, Rinsing, Solvent recovery and auto shut-down. Total fat analysis as an option.	One		
		d. Fibertec: Tecator for Fiber analysis system. Fully automated/ semi-automated to determine crude fiber, detergent fiber and dietary fiber according to Weende, Van Soest and other recognized methods. Single or sequential extraction including boiling, rinsing and filtration using internally or externally pre-heated reagents.	One		
11	Egg Incubator (With all Accessories)	Capacity: 50chicken eggs along with compatible tray, Temp: 37C with thermostat and option for humidity control. Universal Power supply.	One		
12	Candler (With all Accessories)	For chicken eggs, light beam 6 watts. Power supply.	One		
13	Milk separator machine (With all Accessories)	300 Ltr/Hr Electric cum Manually Hand Operated Cream Separator Machine Machine Capacity: 300 Ltr / Hr. Tank Cap.: 25 Ltr.	One		

		<p>No of S.S. Discs: 25 Motor: 1425 RPM Single Phase Electric Motor 0.25 HP Separation Temperature: 35 - 40 C / 95-108 F Solid Removal Time: 1.5 Hour Machine Length: 600 mm X Width: 500 mm X Height: 1000 mm Machine Weight: Nett: 50 Kgs Gross: 135 Kgs Bowl Material: S.S. 304 Spout Set Material: S.S. 304 Sheet Receiving Tank Material: S.S. 304 Sheet</p>			
14	<p>Grinding machine (for fiber) (With all Accessories)</p>	<p>Specifications of laboratory grinding mills include 0 rpm to 5,000 rpm variable speed agitator, 0 rpm to 400 rpm variable rate feed pump, 3 hp & 5 hp motor & 2 L to 20 L feed funnels. Laboratory grinding mills are available with funnel mixers, explosion resistant motors & controls, chambers, programmable logic controllers & agitators. Laboratory & production mixers, attritors & dispersers are also available.</p>	One		
15	<p>Histopathology Equipments a) Automatic Tissue processor, b) Tissue Embedding System c) Microtome along with blade sharpener, d) Automatic Slide Stainer (with all Accessories)</p> <p>(All a-d equipments shall be compatible from same manufacturer and on turnkey solution basis) Made in EU/USA/Japan/Australia or equivalent to the standards of these</p>	<p><u>Specifications for Automatic Tissue Processor:</u> Microcomputer Controlled of the whole operating process so as to ensure operating convenience and working stability. Tissue Basket relocating controlling perch enabling the tissue to be put in any jar. Large LCD screen showing every step of processing easy for monitoring. Timing: Delay Timing Max 99 days 99 hours 59 minutes. Jar Processing Time Max 99 hours 59 minutes with time increment of 01 minute. Constant Temperature Controlling system adopted on the Paraffin jar. Built-in 08 programs selectable. Battery back-up for 08 hours except the paraffin jar.</p>	One		

Infiltration time separately programmable for each station. Easy editing and changing of programs even during a processing run.

Carousal type with 12 Stations, 10 Reagent containers, 03 Wax paraffin containers. Options: 02 basket loading, 03 wax baths. Capacity: 2.3 Liter for Reagent container, 1.8 Liter for Wax paraffin container. Temperature Range of Wax container: 45°C - 85°C. Tissue basket made of Metal with varying capacities of up to 200 cassettes. Tissue basket stirring 01 minute interval every 04 minute inside the container. Vacuum device pressure: Max 0.05 Mpa (approx. 0.5 bar).

Standard Tissue basket Size: Ø 120 x 100mm & Ø 120 x 100mm. Capacity Max 200 Cassettes. Qty. 01 (02 optional). Dry Weight: 80Kg, Nominal Voltage: 220V ±10% Nominal Frequency: 50/ 60 Hz., Power: 800W

Basic instruments, instruction manual and ten reagent vessels and two paraffin box for single basket operation (120 cassettes capacity)

SPECIFICATIONS of Tissue Embedding System:

Independent design can be at positions left-to-right and right-to-left for customers with different working habits.

Composed of 02 modules: 1) Main Console & 2) Cryo Console.

MAIN CONSOLE:

Ergonomic large working surface allows processing of many samples at the same time. Large cold spot peltier is designed orient small and big samples (mega cassettes). Work start time and day can be programmed automatically. Tissue embedding cassettes and base molds trays are removable which can be set at

different temperatures.
 Nominal Voltage Supply: 220V 50Hz
 Max Power Draw: 1000VA
 Working Temperature: from Ambient to 90°C (Increment 01°C).
 Capacity: Paraffin reservoir: 3.1 Liter
 Cassette/ Mold Tray: 1.4 Liter.

CRYO CONSOLE:
 Composed of a compressor cooled work surface to chill the paraffin blocks rapidly.
 Surface is TEFLON coated keeps ice formation to a minimum and allows easy cleaning.
 Temperature is adjustable from Ambient to -13°C.
 It can also be used as standalone unit near microtome station.
 Nominal Voltage Supply: 220V 50Hz
 Max Power Draw: 110VA
 Working Temperature: from Ambient to -20°C (Increment 01°C)

SPECIFICATIONS MICROTOME:
 Easy & Convenient operations. Adopted with an imported Actuation system that can slice the tissue more precisely, more reliable and quietly. LCD Display shows Slice & Trimming Thickness, Section counter. Special function of Sample retraction to avoid the attrition between sample and back of the knife to give a more smooth slice and the life of the knife is more longer. Hand wheel can be locked in any position to make the section as safe and convenient as possible. Waste bath can be disassembled easily.
 Provided with safety Alarm System.
 Slice Thickness Range: 0 - 100µm
 Setting Values:
 From 0 - 10µm with 01 µm increment.
 From 10 - 20µm with 02 µm increment.
 From 20 - 50µm with 05 µm increment.
 From 50-100µm with 10 µm

increment.
Trimming Section Range: 0 - 500µm
Setting Value from 0 - 500µm with 01 µm increment.
Horizontal Specimen Stroke: 20mm
Vertical Specimen Stroke: 60mm
Specimen Retraction: 20mm
Slip Precision: ±5%
Maximal Slice Section: 50 x 45mm.

SPECIFICATIONS OF KNIFE SHARPNER:

Angle of Knife adjustment: 20° - 45°
Interval turnover of knife: 5s, 10s & 25s.
Grinding Time: 0 – 60 minutes.
Grinding Knife Size: below 240mm in length.
Working Voltage: AC 220V, 50Hz.
Power: 40W

SPECIFICATIONS of Slide Stainer:

High definition and Sensitive LCD.
Design for tissue dyeing. Flexible noiseless transmission. Intellectualized in-fall, out-fall and drainage system.
Special dyeing shelf loading with decades of specimens. Streaming water cleaning and tissue roasting function. Number of Reagent container: 12 Cleaning Bath: 01 (the 9th one). Dyeing Bath: 01 (the 1st one).
Processing time of each container: 0 sec. – 59 min. and 59 sec.
Capacity of containers: 01 Liter, Specimen Process 72 pcs.
Working Voltage: AC 220V 50Hz
Power: 1000VA
(Made in EU, USA/Japan/Australia or equivalent to the standards of these)

16	Muffle Furnace (With all Accessories)	<p>Dimensions: 300x200x200 mm Working Temp: 1350°C or better Max. temperature 1400°C. Heating Element: U type Silicon Carbide (SiC) Temperature Control PID Automatic via current limiting phase. Heating rate 0-30°C/ min. Furnace Structure: Double layer steel casing with dual cooling fan to ensure surface temperature below 50°C. Furnace Liner: 1600°C grade fiber alumina refractory liner. Safety Interlock: power off when furnace door open. Complete with High Temperature gloves 2 pairs, Crucible tongs 1 pc, Fuse 1 pc, S type thermocouple 1 pc & SiC heating element 2 pcs. Power Source: 220Volts Furnace Gloves 02 pairs</p>	One		
17	Study tables (for hostels)	3x2 ft with two drawers (wooden sheesham)	50		
18	Office chairs (for hostels)	Sheesham wood frame, with comfortable wooden seat and back	100		
19	Almirah (steel) with glass panel (for library)	7'x4'x18" gauge 22 (two door)	10		
20	Bedroom Set	<p>Double bed 6.6' x 6' Bed Set (Complete side tables, Cabinet for Clothes, Dressing table with seat and Foam Material: Sheesham wood and sheesham parted</p>	01		
21	Drying Room Set with Sofa and Table	Seven seater wooden frame with comfortable foam and cushion.	01		
22	Dining Table Set for eight	Wooden frame, Cushion seat	01		

23	Photocopier	<p>Canon, Panasonic or equivalent Copy Type: Monochrome Laser up to 30 pages-per-minute Paper Size: A5 - A3, Envelopes Copy Resolution: up to 1200 dpi Quality Reduction / Enlargement Zoom 50-200%, Fixed: 50%, 70%, 100%, 141%, 200% No of Trays: 2-3 USB 2.0 Hi-Speed Power Supply 220V AC to 240V</p>	02		
24	Desktop Computer	<p>Processor: 3rd Generation Intel Core i5 Minimum 3.0 GHZ 6 M Memory 4 GB DDR3 Hard Disk 500 GB 7200 rpm SATA Optical Drive Minimum 16X DVD+/-RW Drive 17''+ inches LED monitor VGA,DVI-D (1600x900) Integrated Audio controller Keyboard & Mouse - USB Optical scroll, with mouse pad Internal Gigabit Ethernet MS windows 7 Professional with recovery media and product key License/sticker connecting cables and driver media should be supplied</p>	05		
25	Notebook	<p>Branded (HP, IBM, Dell or equivalent) Notebook Processor Intel Core i7 2.30 GHz Compatible mobile chipset RAM 4GB DDR3, Hard Disk 500 GB 7200 rpm SATA II Optical Media 8 X DVD +/- RW Drive 10/100/1000 Gigabit Ethernet Wireless LAN 802.11b/g Blue tooth USB 2.0 Stereo Microphone in Stereo Headphone /line out Express card ¾ Media card reader Windows 7 Professional Minimum 15" diagonal LED-backlit HD antiglare.</p>	05		

26	LaserJet Printers	Print speed: up to 42 ppm Print technology: Laser Paper tray(s): 2-3 Duplex printing: Yes (Printing on both sides of paper) Media sizes: A4, Letter, legal, Executive, Envelopes Compatible Windows 8, 7, Vista, XP, Mac OS Network support: Standard (built-in Gigabit Ethernet)	04		
27	Printer, Scanner, Copier	Multifunction (Print, Scan, Copy and Fax), Paper size A4, Legal, Executive, Envelope Scan type: Flatbed, Automatic Document Feeder (ADF) Optical scanning resolution: Up to 1200 dpi, Connectivity: Hi-Speed USB 2.0 / Wifi, Supported Operating Systems: Windows 8, 7, Vista, XP, Mac OS	03		