

BAHAUDDIN ZAKARIYA UNIVERSITY,
MULTAN.

TENDER DOCUMENT

For

LAB EQUIPMENT'S FOR THE
FACULTY OF VETERINARY SCIENCES

Last Date of Submission: 12.10.2016

BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN

www.bzu.edu.Pk

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TENDER FORM OF THE BAHAUDDIN ZAKARIYA UNIVERSITY, MULTAN FOR THE YEAR 2016-17.

Lab Equipment's for the Faculty of Veterinary Sciences ON LC (C&F) Basis

Advertised Tender No. T/2016-17/07

Last Date of Receipt of Tender 12-10-2016 12:30PM

Date of Tender Opening 12-10-2016 01:30PM

Tender Price:- Rs.1000/- (Non-refundable)

Earnest Money @5% on Estimated Amount (Refundable)

VENUE TENDER: Treasurer Office B.Z. University, MULTAN.

1. All tender must be submitted on their tender document with sealed envelope and addressed to the Treasurer, Bahauddin Zakariya University, Multan.
2. Any offer not received as per terms & conditions of the tender will be rejected.
3. No offer shall be accepted if:
 - (i) It is received after the time and date fixed for its receipt.
 - (ii) Received without earnest money from the firms.
 - (iii) The tender document is unsigned.
 - (iv) The tender is ambiguous.
 - (v) The offer is conditional.
 - (vi) The offer is from a firm, black listed /suspended or removed from the approved list.
 - (vii) The offer is received by telegram or Fax.
 - (viii) The offer is received with shorter validity than required in tender enquiry.
 - (ix) The offer is not conforming to specifications indicated in the tender enquiry.

Detail

Sr. No.	Name of Equipment's	Specifications	Qty.	Earnest Money @5% on Estimated Cost
1.	<p>Binocular Microscope. Made of anti-rust material. Binocular tube, 45 degree inclined. 360 rotatable. Objectives: Semi-plan achromatic objectives 4x, 10x, 40x, 100x (spring loaded, oil), anti-fungus coating. Sub stage Abbe condenser NA 1.25 with aspheric lens.</p>	<p>Binocular Light Microscope Optical System: CFI45 Infinity Optical System Illumination: High luminescent white LED illuminator (Eco-illumination) 60,000 hours LED life time guarantee Eyepieces: Wide Field paired eyepiece WF 10X, F.O.V 18mm both focusable Focusing: Coaxial coarse/fine focusing, Cross roller guide, Focusing stroke: 22 mm, Coarse: 37.7 mm/rotation, Fine: 0.2 mm/rotation, Coarse motion torque adjustable Eyepiece tube: Siedentop Binocular tube, 30° inclined, Interpupillary distance 47-75mm Nosepiece Quadruple nosepiece (within main body), Revolving mechanism with multiple ball bearings, Elastic nosepiece grip-ring Stages Rectangular mechanical stage (within main body), with specimen holder, with vernier calibrations, Cross travel: 76 (X) x 40 (Y) mm Objectives: CFI BE Plan Achromat 4x (N.A 0.1 / W.D 25mm) 10x (N.A 0.25 / W.D 6.7mm) 40x (N.A 0.65 / W.D 0.6mm) spring loaded (to protect slides) 100x oil (N.A1.25 / W.D 0.14mm) spring loaded (to protect slides) Condensers: YS-CA Abbe Condenser N.A. 1.25, Aperture diaphragm with position guide marking for respective objectives, Accessories 1. Power cord 2. dust cover</p>	25	Rs.3100000/-

		<p>3. operation manual 4. Allen wrench 5. immersion oil Warranty and free after sale service for 3 years post installation</p>		
2.	<p>Embedding station. Work station with having temp of 50 C and with all accessories. Made technically advanced country.</p>	<p>Embedding Console System Dimensions: Embedding Module: 57.5 x 65 x 38 cm Cryo Module: 33 x 62 x 38 cm Cooling Plate: 31 x 38 cm Weight: Embedding Module: 26 kg Cryo Module: 22 kg Capacity:- Paraffin Chamber: 4 Litres Thermal Chambers: 1.5 Litres Cooling Plate: 60 cassettes Temperature Range: Paraffin Chamber 50°C - 75°C Thermal Chambers 50°C - 75°C Hot Plate & Forceps Wells 50°C - 75°C Cooling Plate-10°C - 0°C Warranty and free after sale service for 3 years post installation</p> <p style="text-align: center;">OR</p> <p>Equivalent with Warranty and free after sale service for 3 years post installation</p>	02	
3.	<p>Binocular Microscope. Made of anti-rust material. Binocular tube, 45 degree inclined. 360 rotatable. Objectives: Semi-plan achromatic objectives 4x, 10x, 40x, 100x (spring loaded, oil), anti fungus coating. Sub stage Abbe condenser NA 1.25 with aspheric lens. LED illumination with builtin rechargeable</p>	<p>BINOCULAR MICROSCOPE WITH CAMERA HEAD ATTACHMENT CFI60 (Chromatic Free Infinity optical system) Illumination: LED 60,000 HOURS LIFE TIME DESIRED FEATURE High luminescent White LED Illuminator (Eco-Illumination), AC adapter (100-240V) FLY EYE LENS TECHNOLOGY: allows bright and uniform illumination upto the periphery of the field. Eyepiece: 10X (F.O.V.: 22mm) Coaxial coarse/fine focusing: Focusing stroke: 30mm, Coarse: 9.33mm/rotation, Fine: 0.1mm/rotation, Minimum reading: 1um; Coarse motion torque adjustable, Refocusing function Eyepiece Tube: C-TT Trinocular Tube T (for F.O.V 22mm/25mm, observation/photo: 100:0, 20:80, 0:100) 30 degree inclined with diopter adjustment in both eye-pieces DESIRED FEATURES</p>	05	

	<p>battery. Universal input: 100-240 VAC. Dust Cover, power cord spare bulb and spare fuses.</p>	<p>Image capture button Nosepiece: Sextuple Nosepiece Stage: Dry-film Coated Stage with specimen holder for 2 slides opens to the left Cross travel 54 (Y) × 78 (X) mm, with vernier calibrations, stage handle height and torque adjustable Condenser: Achromat Swing-out Condenser, N.A. 0.90 Condenser focusing stroke: 27mm Observation method: Bright field Power Consumption: 0.37A/6W Objective Lenses a.CFI Plan Achromat 4X N.A. 0.10, W.D. 30.0 mm b.CFI Plan Achromat 10X N.A. 0.25, W.D. 10.5 mm c.CFI Plan Achromat 20X N.A. 0.40, W.D. 1.2 mm d.CFI Plan Achromat 40X N.A. 0.65, W.D. 0.56 mm Spring-loaded e.CFI Plan Achromat 100X Oil N.A. 1.25, W.D. 0.20 mm Spring-loaded Epi-fluorescence Attachment 4 filter cube mountable, Neutral density filters ND4/ND8/ND16 Noise Terminator Mechanism for Ci-L FEATURES Epi-FL Collector Lens Epi-FL Centering Tool to be placed in Nosepiece in 6th position Lamphouse HMX-3B Mercury Lamp Socket S 100W Mercury Lamp HG-100W Power Supply for Mercury Lamp HG-100W Power Cord BE (220-240V) Fluorescence Filter Cube N B-2A BLUE Filter Fluorescence Filter Cube N G-2A Green Filter DIGITAL CAMERA Ri2 16.25 MEGAPIXEL SINGLE SHOT 16.25 MP - NO NEED FOR PIXEL SHIFTING LIKE OTHER BRANDS Image sensor: FX-format, Color CMOS sensor / Size: 36.0x23.9mm Effective: 16.25 megapixels Frame Rate: 45 fps Recordable pixels: 4908x3264 pixel (full-pixel), 1636x1088 pixel (3x3 pixel averaging) ISO sensitivity: Standard: equivalent to ISO 200 (Selectable from ISO200 to 12800</p>		
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		<p>equivalent) Live display mode: Full-pixel 4908x3264 pixel (max 6fps) / 3x3 pixel averaging 1636x1088 (max 45fps) Lens mount: F mount Exposure time: 100 µsec to 60 sec Image format: BMP, TIFF, JPEG, etc., selectable in NIS-Elements Interface USB3.0: (computer control connection) x1, External sync input/output x1 <i>NIS ELEMENTS D SOFTWARE: PC Installed Software has following features:</i> Measurement: 2 point distance, point to line distance, circle distance, angle, circle diameter, circle radius, circle area, pitch distance. Position and size comparison functions: Scale indication, cross-hairs, grid, XY scale, XY measurement. Marking, distance measurement, 2-screen-split display, wide variety of other tools like text input, super-impose function, cross line display, scale display, digital zoom, white balance, color balance, image adjustment, gamma correction and shading adjustment. PC with core i5 processor and original Microsoft operating system for installation of software. LED 55 inches for live display. Warranty and free after sale service for 3 years post installation</p>		
4.	<p>Automatic Microtome for sectioning wax embedded specimen in measured thickness between 1-25 micron adjustable, minimum thickness 1 micron. Made technically advance country.</p>	<p>Rotary Microtome with Disposable Accessories Semi automatic and manually operated system to produce a "ribbon" of successive sections in the precise art of cutting quality tissue samples Maintenance-free. Thickness setting range: 0.5-60 µm Trimming Steps: 10 µm, 50 µm Section Thickness Range 0.5 - 60 µm Increment 0 - 2 µm (0.5 µm increments) 2 - 10 µm (1µm increments) 10 - 20 µm (2 µm increments) 20 - 60 µm (5 µm increments)</p>	02	

		<p>Standard Accessories: Blade holder, base assembly,; Holder for disposable blades, High-Profile Back-Plate Orienting clamp attachment, Universal clamp attachment Maintenance Kit (Microtome oil included) Microtome Blades Low Profile (Feather Japan: 10 Pkt of 50 Blades) Warranty and free after sale service for 3 years post installation</p>		
5.	Fume Hood	<p>Fume Hood with built in Gas & Water Valves</p> <ul style="list-style-type: none"> • Chemical-resistant phenolic resin construction (interior and exterior) • Different choice of worktops suitable for a wide range of applications • Clear tempered safety glass sash utilises counter weights for smooth and effortless operation. • Visual and acoustic airflow alarms. <p>Specifications: External Dimension (L x H x D mm): 1200 x 875 x 1500 Working Zone (L x H x D mm): 1120 x 680 x 1200 Recommended Maximum Exhaust Required Fume Hood Air volume for minimum face velocity Exhaust Air Volume of 0.5 m/s or 100 fpm at full-open 1170 cmh / 690 cfm hood sash position: Recommended Minimum Exhaust Required Fume Hood Air volume for minimum face velocity Exhaust Air Volume of 0.5 m/s or 100 fpm at half-open 585 cmh / 344 cfm hood sash position: Inner Exhaust Outlet Diameter: 252 mm / 10.0" Outer Exhaust Outlet Diameter: 266 mm / 10.5" Light Intensity at Work Surface: 780 Lux / 72 foot candles Construction: Main body: Phenolic resin laminates Support frame: Aluminium extrusions with</p>	04	

		<p>an oven-baked epoxy powder coated finish. Interior baffle system: Phenolic resin laminates Airfoil: Stainless steel grade unit with base storage cabinet Warranty and free after sale service for 3 years post installation</p>		
6.	<p>Incubators Temp Controlled (IR 205) Temp Range: ambient - 5°C- 60°C, capacity 256 liters</p>	<p>Incubator with temperatures up to +70°C specifically for incubating living cultures at +37 °C</p> <ul style="list-style-type: none"> • Temperature Accuracy 0.5 degree C • Temperature Range 5 °C above ambient up to +70 °C • natural convection • PID microprocessor controller with integrated autodiagnostic system with fault indication • Integrated digital timer for tempering profile with max. 4 segments, each segment adjustable from 1 min to 999 hours • Triple Over temperature Protection • Complete with Two Stainless Steel Shelves • Capacity 256 Lit Interior Dimension 800x640x500mm, • Built in Alarm Modules <p style="text-align: center;">OR</p> <p>Equivalent with warranty and free after sale service for 3 years post installation</p>	01	
7.	<p>Water bath (Temperature controlled; digital proportional controller/micro controller for precision control of temperature within ±0.1°C, Temp controlled range between 5-100°C), capacity 45 liters.</p>	<p>Water Bath Basic class for standard temperature control tasks, the Excellent version provides precise test procedures with a maximum of safety: electronic over temperature control and a wide range of visual and acoustic signals.</p> <ul style="list-style-type: none"> • Temperature range min. 5 °C above ambient up to +95 °C with additional boiling mode (+100 °C) • State-of-the-art control technology of the Basic and models • Microprocessor PID-temperature controller with integrated autodiagnostic system with fault indicator • integrated digital timer from 1 min. to 99,59 hours • Over temperature Protection (double) • Interior Stainless Steel Tank & Textured Stainless Steel Casing 	01	

		<ul style="list-style-type: none"> Fitted With Gabled Cover <p>Operated on 220volts. Capacity 40-60 Lit Warranty and free after sale service for 3 years post installation</p>		
8.	<p>Digital Analytical Balance (electrical) fully automatic ealibration. Range: 0.1 mg to 200 gram. Operated at 220 volts.</p>	<p>Electronic Analytical Balance Digital Microprocessor Controlled with Latest UniBlock Technology, UniBlock designs replaces 70 parts of Electromogenitic balances and ensures stable results.</p> <p>Technical Specification: Weighting Capacity: 220gm Minimum display: 0.1mg Pan size (mm): Ø91 approx.</p> <p>Features:</p> <ul style="list-style-type: none"> - Automatic calibration by pressing keys with internal calibration weight - Easy setting, expanded piece counting function comparator function, formulation modes - Windows direct communication function, send balance data to excel without any data software with RS232C interface. <p>Complete unit, operated on 220Volts Warranty and free after sale service for 3 years post installation</p>	14	
9.	<p>Autoclave Digital Microprocessor Controlled Vertical Unit. Temp Range 105 to 135°C. INTERIOR Chamber Stainless Steel, campacity 10-50 Lit.</p>	<p>Autoclave Digital Microprocessor Controlled Vertical Unit Temperature Range 105 to 135° C Interior Chamber Stainless steel, capacity 110 Lit interior chamber dimension 420x795Dmm, with Built in Timer 1 to 250 Minutes, Pressure Gauge 0 to 0.4 mpa, Selected Modes for Liquid and Solids, Forced cooling Fan as standard function, after sterilization, reduce the pressure Without exhaust by forced cooling fan built-in as standard.</p> <p>User-Friendly Features: Electromechanical Lock system, Double Interlock, Auto Cut-off function, Process display, Complete with two stainless Steel wire Baskets operated on 220 Volts with following Features:</p> <ol style="list-style-type: none"> Dual Sensing Interlock mechanism. Over-pressure power cut-off Sterilizing time counting timer 	03	

		<p>d. Over-temperature power cut-off e. Heater malfunction checker. f. Temperature sensor wire breakage detector. g. Securely closed lid check function. h. Exhaust bottle ready-to-use check system. i. Lack-of-water prevention device. j. Electric leakage breaker and over current detector. Pressure Safety valve. Warranty and free after sale service for 3 years post installation</p>		
10.	Clinical centrifuge. 4000 - 6000 rpm	<p>Centrifuge Machine Digital control over speed & time, Maximum speed up to 6,500 rpm 4,000 xg with safety lock-lid will not open with rotor in motion.</p> <ul style="list-style-type: none"> • Speed range: 300 to 6,500 rpm • Max. RCF: 4,000xg • Max. Capacity: 6 x 15ml Conical • Timer: 0.5 to 30 minutes or continuous with momentary option <p>Complete unit with two additional rotors OR Equivalent with warranty and free after sale service for 3 years post installation</p>	04	
11.	Hot air oven Temp range: ambient + 5°C to 180°C/ 250°CX1°C resolution, temp Control: thermostat/digital controller/P (micro) controller, with suitable sensor.	<p>Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor Controller with High-Definition TFT-Color Displays</p> <ul style="list-style-type: none"> • Temperature range 5°C above ambient up to +300°C • Single DISPLAY • natural convection • adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually • self-diagnostics for fault analysis • digital timer adjustable from 1 minute to 99 days, 23 hours • Multiple Over temperature Protection with audible and visual alarm • Interior Stainless Steel & Textured Stainless Steel Casing <p>Operated on 220volts, Capacity 110 Lit (internal dimensions 108 litres, 560 x 480 x 400 mm) with single stainless steel tray Warranty and free after sale service for 3 years post installation</p>	03	

12.	Spectrophotometer. Wave length 200-1100 nanometer. Band width: 2 nano meter.	<p>UV/Vis Spectrophotometer</p> <p>Double beam spectrophotometer with fixed spectral resolution</p> <p>Features</p> <ul style="list-style-type: none"> • Outstanding long-term stability, excellent signal-to-noise ratio and best energy throughput • Holmium oxide filter for automatic wavelength calibration • Quartz coated optics • Highly precise imaging conditions due to aspheric optics • Second cell position for measuring turbid samples • Possibility to integrate in diverse dissolution systems <p>Mode: Absorption, Transmission, Sample Compartment dimensions (W x H x D): 364 x 185 x 260 mm Wavelength range: 190—1100 nm Spectral bandwidth: Fix 1 nm Scanning speed: 12000 nm/min Technical standard:</p> <ul style="list-style-type: none"> • Tested and designed to be complaint with the legal requirements for laboratory instrumentation and developed and produced in compliance with ISO 9001 <p>Photometric display Range of the software: to 8A Photometric Range: -3A to 3A Spectral bandwidth: fix 1 nm UV- Resolution (toluence-hexane): ≥ 1.6 Wavelength accuracy (Deuterium line at 656nm): ± 0.1 nm Wavelength reproducibility (with Holmium oxide filter): ≤ 0.02 nm Photometric accuracy: ± 0.003 A Photometric reproducibility: ≤ 0.0005 A Stray light ≤ 0.03 % T Baseline stability at 500 nm: ≤ 0.0001 (RMS) Longterm stability at 500 nm: ± 0.0005 A/h Scanning speed: 12000 nm/min Cell holder: Single Cell Holder Display: on Computer Cuvettes: 2-Nos. Compelete with Software, Computer and Printer Warranty and free after sale service for 3 years post installation</p> <p>Or</p>	02	
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		Equivalent	
13.	Water Bath with Thermostat. Capacity 10-20 liters with cover	Water Bath, Basic class for standard temperature control tasks, the Excellent version provides precise test procedures with a maximum of safety: electronic over temperature control and a wide range of visual and acoustic signals. <ul style="list-style-type: none"> • Temperature range min. 5 °C above ambient up to +95 °C with additional boiling mode (+100 °C) • Microprocessor PID-temperature controller with integrated auto-diagnostic system with fault indicator • integrated digital timer from 1 min. to 99,59 hours • Over temperature Protection (double) • Interior Stainless Steel Tank & Textured Stainless Steel Casing • Fitted With Gabled Cover Operated on 220volts Capacity 14 Lit., interior dimension 290 x 140 x 350 mm Warranty and free after sale service for 3 years post installation	03
14.	Water Purification System. Millipore	Tap to Pure & Ultrapure water purification system (100 V – 240 V / 50 – 60 Hz) Ultrapure (Type I) Product Water Quality Resistivity 18.2 MΩ•cm @ 25 °C Production flow rate 3-5 l @ 25 °C +/- 15 %. Instant flow rate (with Application Pak final filter) > 0.5 l/min. TOC (w/o 185/254 nm UV lamp) < 10 ppb TOC (with 185/254 nm UV lamp) < 5 ppb Particulates (size > 0.22 µm) < 1 particulate/ml Bacteria < 0.1 cfu/ml Endotoxin (pyrogens) < 0.001 EU/ml RNases < 0.01 ng/ml DNases < 4 pg/µl One extra consumable package should be included Any other accessories/software required for the operation of equipment Warranty and free after sale service for 3 years post installation	01
15.	Autoclave Digital Microprocessor	Autoclave Digital Microprocessor Controlled Horizontal Unit.	01

	<p>Controlled Horizontal Unit. Temp Range 105 to 135°C. Interior Chamber Stainless steel with steel tray, capacity 110 Lit with Built in Timer 1 to 2.50 Minutes. User-Friendly Features: electromechanical Lock system, Double Interlock, Auto Cut-off function, Process display, Complete set operated on 220 volts.</p>	<p>Temp Range 105 to 135°C. Interior Chamber Stainless steel with steel tray capacity 110 Lit with Built in Timer 1 to 2.50 Minutes. Electromechanical Lock system, Double Interlock, Auto Cut-off function, Process display Operated on 220 volts. Warranty and free after sale service for 3 years post installation</p>		
16.	<p>Centrifuge Temperature controlled 7000 rpm (CF7D2)</p>	<p>Centrifuge Machine Refrigerated Bench Top Digital microprocessor controlled with large LCD display, speed range 200 to 15000 rpm, Maximum RCF 21380 x g</p> <ul style="list-style-type: none"> -Active imbalance-identification and cut off, - Automatic motor driven lid lock, - Storage up to 99 programmes, - Temperature range -20 to 40°C, - Pre selection of the running time range 99 hr 59 minutes. - Selection of speed in both rpm and G-force. - Manufactured according to international safety regulations -10 acceleration & deceleration rates -Audible signal at the end of each run <p>With Angle Rotor capacity 24 x 1.5 ml Speed 15000rpm , Operated on 220 Volts Warranty and free after sale service for 3 years post installation</p>	01	
17.	<p>CO₂ Incubator (complete) microprocessor controlled with LED/LCD display of temperature/ CO₂ level. Direct</p>	<p>CO₂ Incubator</p> <ul style="list-style-type: none"> • Active Background Contamination Control • The humidity pan is easy to fill, easy to clean; the automatic optical sensor advises of low water level. • Microprocessor PID temperature control system 	02	

	<p>heat/water jacketed temperature controlled system. Uniformity ± 0.2 °C at 37°C, accuracy ± 0.1 °C. CO2 Range: 0-20% plus CO2 gas cylinder</p>	<ul style="list-style-type: none"> • Accurate CO2 control & recovery characteristics • Exclusive InCu SaFe copper-enriched stainless steel interior <p>Specification: Exterior Dimension: 620mm x 710mm x 900mm (WxDxH) Interior Dimension: 490(W) x 523(D) x 665(H) Interior volume: 170 liters / 6.0 cu. ft. Heating method: Direct Heat & Air Jacket (DHA type) Temperature Control: Microprocessor PID Temperature range: 5°C above ambient temperature to +50°C Ambient Temperature range: 5°C to 35°C Temperature uniformity: ± 0.25 °C Temperature controllability: ± 0.1 °C CO2 control system: On-Off control CO2 sensor: Thermal conductivity CO2 range: 0% to 20% CO2 controllability: ± 0.15 % Humidity system: Natural vaporization with water in humidity pan ambient humidity: 95 ± 5 %RH Shelves dimension: 450mm x 450mm x 12mm (WxDxH) Shelves: 3 Standard, 15 Max. Max. Load: 7kg per shelf Interior surface: Copper-enriched stainless steel UV Lamp: Option (Ozone-free) Water level sensor: Optical type Access port: 30mm (1.2") diameter Remote alarm contacts: 30V DC, 2A allowable Air filter: 0.3μm, Efficiency: 99.97% (for CO2) Alarm system: High / low temperature, Door ajar, water level, CO2 density, Independent overheat protection UV lamp failure Complete with CO2 regulator and Gas Cylinder Warranty and free after sale service for 3 years post installation</p> <p>Or Equivalent</p>		
18.	<p>Deep freezer (-80 C), Cabinet upright, 370 liter capacity, interior</p>	<p>Ultra Low Temperature Freezer (Upright Type) Set point, alarm parameters and self-diagnostic functions accessed through a tamper-resistant keypad protocol</p>	02	

	size, temp range -130 C, five insulating inner doors for separation of compartments	<p>Control inputs managed with convenient push-ad buttons on a unitized, sealed control overlay.</p> <ul style="list-style-type: none"> • Two independent and insulated inner doors with gaskets prevent Leakage. • Safe operation with Status Alert continuous condition monitoring(notifies of potential problems before they happen) • The inner doors are removable for cleaning and defrosting • Power failure alarm lamp and buzzer • Audible and visual alarm on High and low temperature <p>Technical Specifications: Temperature range: -50°C to -86°C Interior Dimensions: (WxDxH) 490 x 600 x 1140 mm Effective capacity: 333 Liters / 11.8 cu.ft. Shelves: 3, Stainless steel Compressor: Rotary type (high stage side), Hermetic type (low stage side) Alarm system: High/low Temperature, Power failure, Filter check, Self diagnostics, Door check, Remote alarm contact Accessories: 1 set of keys, 1 scrapper Warranty and free after sale service for 3 years post installation</p>		
19.	Egg Incubator	<p>Egg incubators, Number of layer: ≥5, Capacity: ≥1000 chicken eggs, Voltage: 220V, Precision of temperature control: ≤±0.1°C, Temperature & humidity control: digital control, Usage: chicken, duck, goose, quail, turkey and other fowls, Package: 1 unit/carton/wooden box, Application: farm and Laboratory; Warranty and free after sale service for 3 years post installation</p>	01	
20.	High Speed centrifuge 22000 rpm, temperature control	<p>High Speed Refrigerated Centrifuge Machine Rotor Speed ≥22000rpm Distinct Control Panel</p> <ul style="list-style-type: none"> • Simple one handed operation • Easy to program with gloves on • Splash proof digital display • Permanent indication of Preset and Actual Values • Selection of speed in both rpm and g-force, with increments of 10 • 10 acceleration and 10 deceleration rates, Possibility of unbraked deceleration 	01	

		<ul style="list-style-type: none"> • Preselection of the temperature from - 20°C to 40°C with 1°C increments • Indication of the sample temperature • Standstill cooling • Pre-selection of running time from 10 sec to 99h 59min or continuous • Storage of up to ninety runs incl. rotor type • Quick-key for short runs • Diagnostic program <p>Specifications</p> <ul style="list-style-type: none"> • Maintenance-free induction drive • Microprocessor with large LCD display • Motor driven lid lock • Automatic rotor identification system with over speed protection, immediately upon rotor insertion • Active imbalance-identification and -cut off (rotor specific) • Imbalance tolerant drive • CFC free refrigeration system • A large variety of rotors and accessories • Manufactured according to international safety regulations, i.e. IEC 1010 • Audible signal at the end of each run with several melody options • Rotor exchange is easy to handle • Noise level under 60 dBA at max. speed <p>ROTOR</p> <p>1-No. Angle Rotor capacity 6 x 250ml speed 10000 rpm, with adaptors of 24 x 15ml and 6 x 50ml Falcon Tubes</p> <p>1-No. Angle Rotor capacity for 03ml and 05 ml tubes</p> <p>Operated on 220 Volts Warranty and free after sale service for 3 years post installation</p> <p>Or Equivalent</p>		
21.	Incubator Temperature controlled (IR). Temp Range: ambient + 5°C to 60°C X 0.1°C resolution, temp Control: Thermostat/digital	Incubator Interior & Exterior Stainless Steel Highly Sensitive microprocessor PID-temperature controller Extremely accurate ideal for all applications with temperatures ambient +5 degree to +70°C with Natural convection, digital LED- display of set and actual temperature,	01	

	<p>I controller/ micro based controller, accuracy: +0.5°C or better, capacity 256 lit.</p>	<p>Double door Interior glass & Exterior stainless steelwith integrated autodiagnostic system integrated digital timer (1 min. up to 99 h 59 min) Capacity 75 Lit Complete with Two Stainless Steel Shelve Operated on 220volts Warranty and free after sales service for 3 years post installation</p>		
22.	<p>Inverted Microscopes</p>	<p>INVERTED MICROSCOPE WITH PHASE CONTRAST Optical system: Antifungal, CFI60 infinity system, parfocal distance 60mm Main body: Square box type with both-end support stage Eyepiece tube: Siedentopf-type trinocular tube (light distribution, bino/photo: 100/0, 0/100) Eyepiece lens: C-W 10X (F.O.V. 22mm) Interpupillary distance: 50–75 mm, Eyepoint height: 400mm from table, Inclination: 45° from horizon Nosepiece: Quintuple nosepiece, backward-facing type Plain stage Stage size: 170 x 225 mm, Stage height: 195mm from table, Auxiliary stage attachable Illumination: <i>High luminescent white LED illuminator (Eco-illumination) 60,000 hours lifetime</i> Filter Frame: Accepts 2 filters, Heat absorbing filter and diffuser Attachable mechanical stage: Stage movement: 126 x 80 mm Accepts several micro-testplate holders Holder: Terasaki holder, Glass Slide Holder all included Filter: 45mm NCB11, ND8 Condenser: ELWD condenser: N.A. 0.3 (O.D. 75mm), Suitable for Phase Contrast, BF, Fluorescence ELWD (Extra Long Working Distance) Focusing: Vertical objective movement Coarse stroke: 37.7mm per rotation, Fine stroke: 0.2mm per rotation Co-axial coarse and fine focusing on rack and pinion. Tension adjustment control. Fine focus Slider: Non-centerable phase slider (PhL, Ph1, 1 empty position) Electrical: Universal power supply (220V,</p>	02	

	<p>50/60 Hz) Plan Objectives a. CFI Plan Fluor DL 4X F N.A. 0.13, W.D. 16.4 mm, PhL b. CFI Achromat ADL 10X B N.A. 0.25, W.D. 6.2mm, PH-1 c. CFI Achromat LWD ADL 20XF N.A. 0.40, W.D. 3.1mm, PH-1 d. CFI Achromat LWD ADL 40XF N.A. 0.55, W.D. 2.1mm, PH-1 Epi-fluorescence attachment: Field diaphragm, Fluorescence filter block holder (2 filter blocks mountable, 1 empty position), Heat absorbing filter, Lamphouse for 50W mercury lamp, Light shielding plate, UV-cut filter (detachable) Switching of dichroic mirror cube. Bulb focusing: Collector focusing, mirror focus, screw system. POWER SUPPLY: Ignition system Hour counter: Display accumulated hours of operation Filter cubes: 1) Blue filter N B-2A - consisting of Excitation Filter EX450-490, Dichroic Mirror DM505 and Barrier Filter BA520 2) Green filter N G-2A - consisting of Excitation Filter EX510-560, Dichroic Mirror DM575 and Barrier Filter BA590 3) Filter, 45mm, GIF DIGITAL SIGHTS CAMERA SYSTEM 5.07 Effective Mega pixel Camera with Stand Alone Control unit including Touch Screen. HIGH DEFINITION COLOR COOLED CCD CAMERA Stand-Alone design, High resolution, Pre-programmed optimum Imaging modes, Large 8.4 inches Touch screen LCD monitor. Camera can take pictures without the use of a PC while still allowing Connection to PC via LAN Network and external monitor. Captures high-defined images at 2560 X 1920 recordable effective pixels Optimum photography is realized with a single click menu that optimizes photographic conditions</p>		
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		<p>according to observation method. Built in software for Count marking function up to 99 serial numbers can be marked. Distance measurement between two points, 2-Screen split display. Wide variety of other tools like Text and pen input, Thumbnail display, Superimpose function, Cross line display and Scale display etc. Two built in USB ports. Save data without PC CCD: 2/3 in. high-density CCD. Total number of pixel 5.24 million (Effective 5.07 mp). Exposure time: 1/1000 to 60 Seconds Gain: 1 - 24X Cooling method: Electronic cooling (Peltier type) Dynamic range: More than 60db (1000:1) White Balance: Set method, Color balance adjustment. Image Adjustment: Gama correction, shading adjustment. For 220V 50Hz. PC with core i5 processor and original Microsoft operating system for installation of software. LED 55 inches for live display. Warranty and free after sale service for 3 years post installation</p>		
23.	Safety cabinet (Type 2)	<p>Safety cabinet (Type 2) Hepa Filter Technology with efficiency of 99.99% at MPPS 0.3 and 0.12 Microns Audible and visual alarms in case of any unsafe condition. External Dimensions (L x W x H) 1220 x 728 x 1270 mm / 48.0" x 28.6" x 50.0" Internal Work Zone (L x W x H) 1150 x 525 x 600 mm / 45.3" x 30.1" x 23.6" Standards Compliance Air cleanliness: ISO 14644.1 Class 4, ZEST-G-CC1001, IEST-G-CC1002 and other equivalent Filter performance: IEST-RP-00034.1, IEST-RP-00007.1, IEST-RP-00001.3 and EN1822 Electrical safety: IEC 61010-1 / EN 61010-1 / UL 61010A-1 /CSA C22.2 No. 1010.1-92 Downflow and Exhaust Filter Type HEPA filter with integral metal guards and filter frame gaskets; fully compliant with EN 1822 and IEST-RP- 00001.3 requirements (each cabinet has individual downflow and exhaust</p>	01	

		<p>filters) Filter Efficiency Ratings: 99.99% at 0.3pm Noise Level: Typically <65 JBA at initial blower speed setting, according to EN 12469:2000 (subject to acoustic properties of test environment) Light Intensity: >850 Lux / >79 foot candles, measured at work surface level (zero background) as per NSF49 test grid Operated on 220 Volts, Warranty and free after sale service for 3 years post installation</p>		
24.	<p>Blood Chemistry Analyzer, fully automatic with accessories. Made in technically advanced country.</p>	<p>Bench top, discrete, random access, automated system with assay modes 1-point, 2-point. Upto maximum of 42 test items with additional 4 ISE(Na+ , K,Cl, Li), atleast 20-25 positions fixed for reagents and 15 positions flexible for reagent/samples. Sample container primary tube 7ml(14.5x84mm) or 5ml (13x75mm) and standard cup 2ml. sample dispensing volume 2-70µl (adjustable in 0.1µl accuracy) reaction volume 180 µl. reagent dispensing 10-300µl (adjustable in 0.1µl accuracy) multi wavelength static photometric system. At least 6-8 wavelengths (340, 405, 450, 505, 546, 578, 600, 660 and 700 nm). Mixer by probe having 3 levels slow/medium/high. Safety for obstruction detection and froth detection and liquid level sensing. Semi disposable Reaction tray having 120 positions. Unlimited test parameters, calculation items and profiles. Output at least 100 test/hour (Photometric). Power supply AC 220 V ± 10% Software for PC operation. Desktop PC with Core i5 processor and original windows 8 or 10. Hp LaserJet Printer for printing reports. Warranty and free after sale services for 3 years post installation</p>	01	
25.	<p>Multi head microscope. Ten heads. Made from technically advanced country.</p>	<p>MULTIHEAD MICROSCOPE FOR 5 PERSONS CFI60 (Chromatic Free Infinity Optical System) Illumination: LED 60,000 HOURS LIFE TIME FEATURES High luminescent White LED Illuminator (Eco-Illumination), AC adapter (100-240V) FLY EYE LENS TECHNOLOGY: allows bright and uniform illumination upto the periphery of the field. Eyepiece: 10X (F.O.V.: 22mm)</p>	01	

		<p>Coaxial coarse/fine focusing: Focusing stroke: 30mm, Coarse: 9.33mm/rotation, Fine: 0.1mm/rotation, Minimum reading: 1um; Coarse motion torque adjustable, Refocusing function</p> <p>Eyepiece Tube: C-TT Trinocular Tube T (for F.O.V 22mm/25mm, observation/photo: 100:0, 20:80, 0:100) 30 degree inclined with diopter adjustment in both eye-pieces . Image capture button Nosepiece: Sextuple Nosepiece Stage: Dry-film Coated Stage with specimen holder for 2 slides opens to the left Cross travel 54 (Y) × 78 (X) mm, with vernier calibrations, stage handle height and torque adjustable Condenser: Achromat Swing-out Condenser, N.A. 0.90 Condenser focusing stroke: 27mm Observation method: Brightfield Objective Lenses a.CFI Plan Achromat 4X N.A. 0.10, W.D. 30.0 mm b.CFI Plan Achromat 10X N.A. 0.25, W.D. 10.5 mm c.CFI Plan Achromat 20X N.A. 0.40, W.D. 1.2 mm d.CFI Plan Achromat 40X N.A. 0.65, W.D. 0.56 mm Spring-loaded e.CFI Plan Achromat 100X Oil N.A. 1.25, W.D. 0.20 mm Spring-loaded</p> <p>TEACHING HEAD FOR 5 PERSONS and built in LED pointer. Complete with: Teaching Unit for 5 person observation LED Pointer Unit for Teaching Head with following features: - Pointer intensity knob to change pointer brightness - Stick handle to move pointer in X Y plane - Wheel slider to rotate pointer 360 degrees in the plane **Better Feature - Wheel slider to change pointer color RED or GREEN in order to keep pointer visible in contrast with the homogenous sample slides in the background.</p> <p>Complte with: Support pillars Binocular Tubes with 10x Eye pieces AC Adapter for Pointer Unit. Power cord.</p>		
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		<p>DIGITAL CAMERA Ri2 16.25 MEGAPIXEL SINGLE SHOT 16.25 MP</p> <p>Image sensor: FX-format, Color CMOS sensor / Size: 36.0x23.9mm Effective: 16.25 megapixels Frame Rate: 45 fps Recordable pixels: 4908x3264 pixel (full-pixel), 1636x1088 pixel (3x3 pixel averaging) ISO sensitivity: Standard: equivalent to ISO 200 (Selectable from ISO200 to 12800 equivalent) Live display mode: Full-pixel 4908x3264 pixel (max 6fps) / 3x3 pixel averaging 1636x1088 (max 45fps) Lens mount: F mount Exposure time: 100 μsec to 60 sec Image format: BMP, TIFF, JPEG, etc., selectable in NIS-Elements Interface USB3.0: (computer control connection) x1, External sync input/output x1 NIS ELEMENTS D SOFTWARE: PC Installed Software has following features: Measurement: 2 point distance, point to line distance, circle distance, angle, circle diameter, circle radius, circle area, pitch distance. Position and size comparison functions: Scale indication, cross-hairs, grid, XY scale, XY measurement. Marking, distance measurement, 2-screen-split display, wide variety of other tools like tex input, super-impose function, cross line display, scale display, digital zoom, white balance, color balance, image adjustment, gamma correction and shading adjustment. PC with core i5 processor and original Microsoft operating system for installation of software. LED 55 inches for live display. Warranty and free after sale service for 3 years post installation</p>		
26.	Circulating Water Bath	<p>Circulating water bath</p> <ul style="list-style-type: none"> • Temperature range min. 5 °C above ambient up to +95 °C with additional boiling mode (+100 °C) • Microprocessor PID-temperature controller with • integrated autodiagnostic system with fault 	01	

		<p>indicator</p> <ul style="list-style-type: none"> integrated digital timer from 1 min. to 99,59 hours Overtemperature Protection (double) Interior Stainless Steel Tank & Textured Stainless Steel Casing Fitted With Gabled Cover <p>Operated on 220volts, WNB Series. Capacity 7 Lit., interior dimension 240x210x140mm Warranty and free after sale service for 3 years post installation</p>		
27.	DNA thermal cycler	<p>DNA Thermal Cycler Input power: 100-150 VAC, 50-60 Hz; 220-240VAC, 50-60Hz; 670 W maximum Display 5.7" VGA color touch screen Port: 1 USB A Fuses: Two 6.3A, 250V, 5x20mm Memory: 500 typical programs onboard, unlimited with USB flash drive expansion. Dimension (W x D x H): 26X47X23 cm Temperature control: Calculated or block PCR license: Yes Programming options: Step based graphical</p> <p>Sample capacity Sample capacity: 96x0.2 ml tubes, 0.2ml tube strips or 1x96 well plate Maximum ramp rate 4°C/sec Temperature range: 4-100°C Temperature accuracy ± 0.5 C of programmed target</p> <p>Thermal gradient Gradient capacity: Yes Gradient accuracy:± 0.5 °C of programmed temperature Gradient range: 30-100°C Temperature differential range: 1-25 °C With all accessories including DNA sequencer Warranty and free after sale service for 03 years</p>	01	
28.	PCR Work Station	<p>Size: 0.6 meters (2')</p> <p>External dimensions: 730 x 617 x 950mm ,</p> <p>Internal work zone: 630 x 538 x 550mm,</p> <p>Laminar Airflow Velocity: 0.275 - 0.325 m/s (54-64 fpm)</p> <p>Pre-Filter: Washable polyurethane fibers with 85% arrestance</p>		

		<p>Sound Emission*: <63 Dba Fluorescent Lamps Intensity: >800 Lux (>75 foot candles) Construction: Main Body: Electrogalvanized steel with white oven-baked epoxy-polyester powder-coated finish.Coated antimicrobial coating Work Zone: 1.2mm (0.05") 18 gauge stainless steel Tyoe 304 with No.4 finish Complete unit operated on 220 volts Warranty and free after sale service for 3 years</p>		
29.	Stereo-Microscope	<p>Microscope stereoscopic Binocular with zoom type objective 2x and 4x and a pair of 15x wide field eye piece Magnification 20x and 40x with dual light system one at top other at bottom with variable illumination operated on With camera for still photography 220volts, Made in Japan Warranty and free after sale service for 3 years post installation</p>	10	
30.	X-Ray Unit with accessories	<p>Complete X-Ray Unit with all accessories as per specifications below: RADspeed fit (STD, 32kW) Main specification ; - Maximum Output : 32kW - Maximum Inverter Frequency : 45kHz - Radiographic kV Range : 40 - 150kV at 1kV steps - Radiographic mA Range : 10 - 500mA at 12.5% steps - Radiographic mAs Range : 0.5 - 500mAs at 12.5% steps - APR : Maximum 432 Programs - Color Coded LED Status Indicator Configuration ; - 32kW X-ray High Voltage Generator - X-ray Tube Support X-ray Tube Support Specification ; - Longitudinal Movement : 1800mm - Transverse Movement : 200mm - Vertical X-ray Tube Stroke : 500-1800mm - Maximum SID with Table : 1100mm - Tube Rotation on Horizontal Axis: -140 to +180 deg - Tube Rotation on Vertical Axis : 180 deg (Mechanical Lock)</p>	01	

		<ul style="list-style-type: none"> - 4-Ways Floating Radiography Table Radiography Table Specification ; - Loading Capacity : 220kg - Table-Top Height from Floor : 700mm - Table-Top Longitudinal Slide : 1100mm - Table-Top Transverse Slide : 250mm - Table-Top Size : 2350 x 810mm - Cassette : 6.5"x8.5" to 14"x17" Vertical <p>& Horizontal</p> <ul style="list-style-type: none"> - Removable Grid Function - Collimator - Console <p>Grid S1040-100M (40lines/cm, 10:1 ratio, fo=100cm) 0.6/1.2P18DE-85 200kHU X-ray Tube (focus 0.6 / 1.2mm)</p> <p>Mount Kit for P-type</p> <p>BR-120 fit Wall Bucky Stand</p> <ul style="list-style-type: none"> - Distance : Bucky Chin Rest to Floor : 747-2047 mm - Distance : Bucky Device to Film : 33.5 mm - Bucky Vertical Dimension : 552mm - Cassette : 6.5"x8.5" to 14"x17" Vertical & Horizontal <p>Grid S1240-170M (40lines/cm, 12:1 ratio, fo=170cm)</p> <p>Fuji Prima T2 Digitizer with V Console For Veterinary</p> <p>19" LED Monitor</p> <p>Imaging Plate & Cassette</p> <p>Size: 35.4 x 43 cm</p> <p>25.2 x 30.3 cm</p> <p>20.1 x 25.2 cm</p> <p>Fuji Laser Printer</p> <p>Dry Pix SMART (2-online trays)</p> <p>35.4 x 43 cm, 25 x 30.3"</p> <p>Installation by company's trained engineer</p> <p>Lead coating of X-Ray room and all other optional accessories for the complete functioning of X-ray unit</p> <p>Warranty and free after sales service for 5 years post installation</p>		
31.	Incubator	<p>Incubator</p> <p>Interior & Exterior Stainless Steel</p> <p>Highly Sensitive microprocessor PID-temperature controller</p> <p>Extremely accurate ideal for all applications with temperatures</p> <p>ambient +5 degree to +70°C with Natural convection, digital</p> <p>LED- display of set and actual temperature,</p>	01	

		<p>Double door Interior glass & Exterior stainless steelwith integrated autodiagnostic system integrated digital timer (1 min. up to 99 h 59 min) Capacity 53 Lit Int interior Dimension 400 x 400 x 330mm, Complete with Two Stainless Steel Shelve Operated on 220volts Warranty and free after sales service for 3 years post installation</p>		
32.	Semen quality analyzer french model	<p>Heated Stage; Mini Therm External Phase Microscope Maximum and acquire fields; 30 Chamber compatibility; Fixed depth 10-100 µm Analysis speed; < 1 sec per field Measurements; Cells counted, Cells in sample, concentration, percent, velocity, motion parameters Analysis in phase contrast and fluorescence. Suitable for domestic animals, most of the vertebrates (mammals and avian semen analysis) Warranty and free after sales service for 3 years post installation</p>	01	
33.	Lactoscan	<p>Milk Analyzer Measuring Parameters FAT, Lactose Density, Protein, SNF (Solid Non Fat) Milk sample temperature Easy 5-key operation Automatic maintenance: Up to five different times can be entered for various maintenance activities: • rinsing, cleaning and zero point calibration Thus routine tasks are completed automatically. Parameter Ranges Measuring range: Fat: 0 – 40.00% Protein: 0 – 10.00% Lactose: 0 – 10.00% SNF: 0 – 15.00% Fat repeatability ±0.02%; Protein repeatability 0.03 Lactose repeatability 0.03; Solids Non-fat repeatability 0.04; Freezing point ±0.002 celcius Complete unit with accessories, PC (core i5)</p>	01	

		and Laserjet printer. Warranty and free after sales service for 3 years post installation		
34.	Vacuum Oven	<p>Vacuum Drying Oven</p> <p>With short warming up times, high-precision temperature control and turbo-drying, the vacuum oven VO shows off all its strength – at the same time it can handle heat-sensitive or oxygen-sensitive substances and materials such as cosmetics, food, clocks, books or PCBs and other electronic components with unparalleled gentleness when drying. The direct contact between chamber load and the heatable and removable thermal shelves guarantees in all vacuum oven models a quick and even temperature control without loss of heat.</p> <ul style="list-style-type: none"> • Temperature range 5°C above ambient up to +200°C • fuzzy-supported MLC (Multi-Level-Controlling) microprocessor controller adapting its performance to the volume for each thermoshelf • Temperature measured through 4-wire Pt100 sensor individually for each thermoshelf • integrated timer for tempering and pressure (vacuum) profiles • Digital electronic pressure control through solenoid valves • adjustment range from 10 mbar to 1100 mbar - digital (LED) • setting accuracy 1 mbar • Rapid air intake for door opening (door is blocked under vacuum) programme reactivation at stored values • vacuum drying process (vacuum cycles) is continued after power failure • Multiple Overtemperature Protection • Textured Stainless Steel Casing • hermetically welded stainless steel interior of extremely corrosion-resistant stainless steel, material 1.4404 <p>Operated on 220volts, VO Series. Capacity 29 Lit, interior dimension: 385 x 305 x 250 mm, Operated on 220volts with Vacuum pump single stage diaphragm oil less type With 2 cylinders low noise level, compact for Laboratory</p>	02	

		<p>Vacuum & Pressure control device and gauges fitted with Pump able to use with Evaporators, Filtration and Vacuum Oven etc., Vacuum Controllable Capacity: 60 lit/minute Maximum Flow Rate: 3.8/4.2 m³/h, Absolute ultimate Vacuum: <100 Maximum Pressure outlet: 4 bar Complete unit operated on 220 Volts Warranty and free after sales service for 3 years post installation</p>		
35.	Microscope (with digital CCTV camera and screen) and CPU for data.	<p>RESEARCH TRINOCULAR MICROSCOPE CFI60 (Chromatic Free Infinity optical system) Illumination: LED 60,000 HOURS LIFE TIME DESIRED FEATURE High luminescent White LED Illuminator (Eco-Illumination), AC adapter (100-240V) FLY EYE LENS TECHNOLOGY: allows bright and uniform illumination upto the periphery of the field. Eyepiece: 10X (F.O.V.: 22mm) Coaxial coarse/fine focusing: Focusing stroke: 30mm, Coarse: 9.33mm/rotation, Fine: 0.1mm/rotation, Minimum reading: 1um; Coarse motion torque adjustable, Refocusing function Eyepiece Tube: C-TT Trinocular Tube T (for F.O.V 22mm/25mm, observation/photo: 100:0, 20:80, 0:100) 30 degree inclined with diopter adjustment in both eye-pieces DESIRED FEATURES Image capture button Nosepiece: Sextuple Nosepiece Stage: Dry-film Coated Stage with specimen holder for 2 slides opens to the left Cross travel 54 (Y) × 78 (X) mm, with vernier calibrations, stage handle height and torque adjustable Condenser: Achromat Swing-out Condenser, N.A. 0.90 Condenser focusing stroke: 27mm Observation method: Brightfield Power Consumption: 0.37A/6W Objective Lenses a.CFI Plan Achromat 4X N.A. 0.10, W.D. 30.0 mm b.CFI Plan Achromat 10X N.A. 0.25, W.D. 10.5 mm</p>	01	

		<p>c.CFI Plan Achromat 20X N.A. 0.40, W.D. 1.2 mm</p> <p>d.CFI Plan Achromat 40X N.A. 0.65, W.D. 0.56 mm Spring-loaded</p> <p>e.CFI Plan Achromat 100X Oil N.A. 1.25, W.D. 0.20 mm Spring-loaded</p> <p>Image format: BMP, TIFF, JPEG, etc., selectable in NIS-Elements</p> <p>Live CCTV camera and 48 inches LED PC with core i5 processor and original Microsoft operating system for installation of software.</p> <p>Warranty and free after sale service for 3 years post installation</p>		
36.	<p>Hot air oven</p> <p>Temp range: ambient + 5°C to 180°C/ 250°CX1°C resolution, temp Control: thermostat/digital controller/P (micro) controller, with suitable sensor.</p>	<p>Oven Precise drying, Adaptive Multifunctional Digital PID-microprocessor Controller with High-Definition TFT-Color Displays</p> <ul style="list-style-type: none"> • Temperature range 5°C above ambient up to +300°C • Single DISPLAY • natural convection • adjustment of pre-heated fresh air admixture by air flap control in 10% steps for each segment individually • self-diagnostics for fault analysis • digital timer adjustable from 1 minute to 99 days, 23 hours • Multiple Over temperature Protection with audible and visual alarm • Interior Stainless Steel & Textured Stainless Steel Casing <p>Operated on 220volts, Capacity 110 Lit (internal dimensions 108 litres, 560 x 480 x 400 mm) with single stainless steel tray</p> <p>Warranty and free after sale service for 3 years post installation</p>	03	

Note: **For all the Brands mentioned in this tender (if any), the term “or equivalent” is hereby added and shall be considered as per PPRA rules.**

Certificate

1. We / I hereby confirm to have read carefully the terms & conditions of your Tender Enquiry dated for opening on ----- for the purchase of ----- . We agree to abide by all these terms & conditions/instructions.
2. Certified that the prices quoted against advertises tender dated-----are not more than the prices charged from any other purchasing Agencies in the country in the financial year ----- and in case of any discrepancy, we/I hereby undertake to refund the price charged in excess if and when asked to do so.
3. Certified that the prices quoted by our firm are inclusive of G.S.T and all taxes as per rules and regulations.

1. NAME OF FIRM-----
2. ADDRESS-----
3. INCOME TAX NO-----
4. SALE S TAX REGN NO-----
5. NAME OF TENDERER-----
6. NAME OF BANK AND A/C NO.-----
7. C.N.I.C NO.-----
8. SIGNATURE OF TENDERER -----
9. DATE AND STAMP -----

CRITERIA FOR TECHNICAL EVALUATION OF THE TENDER

The quotation /bid who secure 60% marks will qualify for the competition.

Sr. No.	Parameter	Weight age
1	Technical Specification of Product	45%
2.	Age of Company/Firm	10%
4.	Financial strength of the vender	15%
5.	H.R. Strength	05%
6.	On site back up support	10%
7.	Relevant experience	10%
8.	Certified Engineer	05%
<u>Total</u>		100%

TENDER DOCUMENT

TERMS & CONDITIONS

- i. Sealed bids are invited for the purchase of Lab Equipment's for the Faculty of Veterinary Sciences, B.Z. University Multan.
- ii. The interested bidders shall submit their bids under Single stage- two envelope procedures as defined by Govt. of Punjab Procurement Regulatory Authority.
- iii. The bidders will submit their bid in the two envelopes shall contain technical and financial proposals separately and clearly marked as "TECHNICAL PROPOSAL" & "FINANCIAL PROPOSAL" in bold letters. The financial proposal should accompany earnest money amounting to 5% of the estimated price, in the form of call deposit in favor of the Treasurer, B.Z University Multan.
- iv. In the first stage, only the envelopes containing "TECHNICAL PROPOSAL" shall be opened in the presence of bidders (or their authorized representatives) who may like to attend the tender opening meeting.
- v. The "TECHNICAL PROPOSAL" shall be evaluated and no amendments in the "TECHNICAL PROPOSAL" permitted.
- vi. **The Technical Committee may accept or reject supplier bid after inspection of their services/equipment and demonstration of the quoted equipment.**
- vii. Financial bid will be opened after the completion of all codal formulation of evaluation of the Technical Bid on the date, and time which will be communicated to the bidders.
- viii. Financial bid will be opened for those bidders who submitted their Technical bids OR fulfill the Technical requirement in the presence of the bidders in case any bidder after written call will not be present at the time of opening due to any reason then any claim by him will not be accepted in future. Otherwise their Financial Bids shall be returned un-opened to the respective bidder.
- ix. **Prices of items should be quoted on LC(C&F) basis and foreign currency to be quoted for C&F price as USD.**
- x. Bahauddin Zakariya University, Multan reserves the right to drop any items given in the tender without assigning any reason and also reserves the right to reject any or all bids.
- xi. Sole distributor certificate (if any) should be attached with the bids.
- xii. **Exclusive distributorship certificate duly signed and stamped from Principal and attested by Chamber of Commerce (as the case may be) and/or Embassy of the manufacturer Country may also be provided.**
- xiii. The quotations offering substandard product can be screened out to ensure procurement of Lab Equipment's.
- xiv. The rates will be valid up for 120-days from the date of opening the tender.
- xv. A University Inspection committee will inspect the Lab Equipment's and further will recommend for payment.
- xvi. The firm must attach photocopy of income tax and Sales Tax Registration with the quotation, otherwise quotation will not be accepted.
- xvii. Attached proforma/Certificate should invariable be filled and submitted with the quotation.
- xviii. All bids should reach the office of Treasurer, Bahauddin Zakariya University, Multan on or before **05.10.2016** at 12:30 pm. The bids will be opened on the same date at 01:30 pm.
- xix. Price of each item should be mentioned including GST/ all Taxes in Tender.
- xx. The tender should be quoted on the basis of free delivery of Lab Equipment's at the Faculty of Veterinary Sciences, B.Z. University Campus.
- xxi. Quotation should be submitted in print output/typed condition preferably.
- xxii. **An affidavit on stamp paper Rs.200/- regarding Terms & Conditions of the bid contract maintenance of equipment & replacement of defective parts under warranty shall be done without any cost & that the firm has never been blacklisted on any grounds whatever.**
- xxiii. The successful bidders will be responsible for payment of custom clearance/agent charges/insurance premium and transportation from Air Port/Sea to B.Z. University premises in case of LC's.

TREASURER
UAN. 111229988 Ext.1318