

နောက်ဆက်တွဲ(က)

စိုက်ပျိုးရေး၊ မွေးမြူရေးနှင့်ဆည်မြောင်းဝန်ကြီးဌာန
 မွေးမြူရေးဆိုင်ရာဆေးတက္ကသိုလ်
 ၂၀၂၀-၂၀၂၁ ဘဏ္ဍာရေးနှစ်တွင် ဆောင်ရွက်မည့်
 လုပ်ငန်းများအတွက် အိတ်ဖွင့်တင်ဒါခေါ်ယူခြင်း

၁။ နေပြည်တော်ကောင်စီနယ်မြေ၊ ရေဆင်း၊ မွေးမြူရေးဆိုင်ရာဆေးတက္ကသိုလ်၌ ၂၀၂၀-၂၀၂၁ ဘဏ္ဍာရေးနှစ်တွင် ဆောင်ရွက်မည့်အောက်ဖော်ပြပါ လုပ်ငန်းများကို မြန်မာကျပ်ငွေဖြင့် ၂၀၂၀ ခုနှစ်၊ နိုဝင်ဘာလ(၂၀) ရက်နေ့ (၁၆:၀၀) နာရီ နောက်ဆုံးထား၍ အိတ်ဖွင့်တင်ဒါပုံစံ တင်သွင်းရန် ကြေညာအပ်ပါသည်-

Lot 1

Item Code	Name of the Equipment & Specifications	Quantity
1	<p>Egg Incubator Model: HEKA Euro-Lux Wien - for ca. 800+375 Hen-Eggs Setting tray: 8 (90-100 hen eggs/ tray) Hatching tray: 3 (110 hen eggs/tray) Weight: 136 Kg Dimension: Width 68 cm, Depth 70 cm, Height 170 cm, Egg turning: Fully automatic Humidifier: Fully automatic Temperature control: Fully automatic Country of origin: Germany</p>	1 No.
2	<p>Automatic Titrator Model: BT-4B Measuring range: pH: 0.-14.00pH, mV: -1800.0-1800.0mV Temp.: 5.0 - 105.0°C Measuring resolution: pH: 0.01pH;mV: 0.1mV; Temp:0.1°C Measuring accuracy: pH: ±0.01pH±1bit, mV: ±0.03% (full scale), Temp.:±0.3°C Power supply: AC110V/ 220V±10%, 50/60HZ External size: 390×380×300mm Packing size: 540×490×480mm, Gross weight: 8kg</p>	1 No.

Lot 2

1	Stomacher Useful volume 50–400ml, Power 100–240V, 50/60Hz Adjustable blending power with Security Drip Tray, Variable speed (4, 6, 8, 10 Strokes/sec) Variable Time (1S to 1H or \pm / countdown) Silent brushless motor, Side by side paddle stop Click & Clean Removal paddles	1 No.
2	Magnetic Separation Rack Base Station material: Polycarbonate, acrylic with neodymium magnets. Tube rack material: Polycarbonate with hole up to 16×1.5ml microcentrifuge tubes.	1 No.
3	Electric Sterilizer (Used to rapidly sterilize loop) No fuel combustion, Adjustable Temperature 20–850°C Wide Mouth Design, Chamber diameter 37mm	1 No.
4	Densitometer Measurement wavelength 565±15nm Measurement range: 0.00–15McF, Display resolution: 0.01McF Accuracy (0.0–6 McF)±3%, Measurement Time: 1 sec Display LED, Power 12V, 7mA/ 0.1W	1 No.

Lot 3

1	Portable Hand Scan Veterinary Ultrasound Machine A small, compact Ultrasound Scanner , Comfortable Battery powered, Suitable for: Cattle/Sheep/Goat/Pig Light weight with TFT color LCD Display Mode: B, B+B, B+M, M, 4B Scan Depth: 70–240mm, adjustable Cine Loop: ≥400 frames Focus Position: 2 points adjustable Package: metallic case Image Reservation: up/down, left/right Language: English AC adapter: 110–240V, 50/60Hz	1 No.
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2	<p>CO₂ Cell Incubator Cole-Parmer Mini CO₂ digital incubator: 20 Litres CO₂ Sensor – TCD CO₂ Concentration Range – 0% to 20% CO₂ Control Accuracy – ±0.1% at 5% Relative Humidity Control – 95% ±3% Decontamination Phase (all surfaces) -90°C/9 hr. Door – Metal exterior door, glass inner door with Latch Temperature Range – Ambient +3°C to +55°C Temperature Deviation – ±0.1°C/±0.5°C Ambient Temperature Range – +18°C to +33°C</p>	1 No.
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Lot 4

1	<p>Refrigerated Cooling Centrifuge Max speed: 15,000 rpm Max capacity: 200ml Temp range: -10°C to +40°C Power supply: 230V Provided with Rotor for 1.5ml microtube and 15ml tube</p>	1 No.
2	<p>Shaker Speed: 50 to 300rpm Load bearing: 4kg Provided with clamp for beakers, flasks, tubes and dishes</p>	1 No.
3	<p>Heat Block Heating range: ≤20 min, 30°C to 130°C Number of Block: for 1.5ml tube and 2ml tube</p>	1 No.

Lot 5

1	<p>Microplate Reader Dimensions: (WxDxH) 440 x 295 x 225 mm Applications: Enzyme-linked immunosorbent assays Nucleic acid quantification, Protein colorimetric assays, Enzyme Kinetics Precision: CV ≤ 0.2% (0 to 3 Abs), CV ≤ 1.0% (3 to 4 Abs)</p>	1 No.
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	<p>Type Absorbance: Microplate Reader Accuracy: 0.005±1% (0–3 Abs), 0.005±2% (3–4 Abs) Detector Absorbance: Resolution 0.001 Abs Measurement Time: < 6s Single Mode, 12s Dual Mode Wavelength(s): 340 to 750 nm Optical System Filters Plate Formats: 96–well Plates Light Source: Quartz–halogen Lamp</p>	
2	<p>UV Transilluminator For the detection of DNA, stained with Ethidium Bromide/gel red UV Transilluminator includes a specifically manufactured filter system Size: 288 x 340 x 80 mm, Viewing area: 260 x 210 mm Weight: 4.3 kg, UV wave length: 302 nm UV lamps: 6 x 8 Watt, Power: 100–240 V, 50–60 Hz UV transmissibility: 0.01 %</p>	1 No.
3	<p>pH Meter pH Range: –2.000 to 16.000 pH (Standard Mode), –2.00 to 16.00 pH (Basic Mode) pH Resolution: 0.001 pH, 0.01 pH pH Accuracy (@25°C/77°F): ±0.01 pH, ±0.002 pH pH Calibration: 5 points (Standard mode) 1.68, 4.01 (3.00†), 6.86, 7.01, 9.18, 10.01, 12.45, and two custom buffers; 3 points (Basic mode) 4.01; 6.86; 7.01; 9.18; 10.01 pH Temperature Compensation: ATC: –5.0 to 100.0°C; 23.0 to 212.0°F</p>	1 No.
4	<p>12 Channel Pipette (20–200µl) Lightweight and perfect hand fitting Precision digital display visible at all time Justip™ adjustable tip ejector fitting most tips Swift-set user calibration system 360° rotation of volumetric module</p>	1 No.
5	<p>Single Channel Pipette Smart and reliable volume adjustment Single-handed volume setting</p>	1 No.

	Interchangeable nozzle protection filter Justip™ adjustable tip ejector* fitting most tips Swift-set user calibration system* Shock, UV light and autoclaving resistance Pasteur pipette fitting 2- and 5-mL models	
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Lot 6

1	Microcentrifuge (Hermle Z 167M) max. Speed: 14,000 rpm max. RCF: 15,994 xg max. Volume: 18 x 1.5/2.0 ml Speed range: 200 – 14,000 rpm Running time: 59 min 50 s / 10 s increments 99 h 59 min / 1 min increments Dimensions (WxHxD): 28 cm x 24 x 35 cm Weight: 12 kg, Electric supply 220V	1 No.
2	Analytical balance (Kern ABS 2204-N) Readability [d] mg 0.1 Weighing capacity [Max] g 220 Reproducibility mg 0.2 Linearity \pm 0.3 Electric supply 220V	1 No.
3	Chemistry Analyzer (Veterinary Use) (168-Vet) Production Capacity: 1, 000 Sets / Year Type: Biochemical Analyzer Operation Temperature: Normal Temperature, 25°,30°, 37°C Absorption Range: 0.000~3.000ABS Linearity: \leq 1%, Absorbency Repeatability: \leq 1% Wavelength Accuracy: \pm 1nm, Electric supply 220V	1 No.
4	Medical Refrigerator (Biobase Class II) Model Number: BXC-V260M, Refrigerant: R134a, CFC Free Refrigeration Type: Forced air refrigeration system Capacity: 260L Temperature: 2-10°C	1 No.

	<p>Temperature Accuracy: 0.1 degree</p> <p>Electric supply: 220V</p> <p>Standard accessory: LED lamp & shelves, printer, probe access port, door keys</p>	
5	<p>Light Microscope (Euromex MB 1152)</p> <p>Binocular head inclined at 45°</p> <p>Eyepiece : WF 10×/18</p> <p>Objectives : 4× 10× 40× (spring) 100×(spring) oil</p> <p>Stage: Mechanical stage (125×125mm) with moving range 60×30 mm</p> <p>Focusing: Coaxial coarse and fine focusing knobs,</p> <p>Condenser: NA 1.25 Abbe</p> <p>Illumination: 6V/15W (halogen lamp)</p> <p>Dust cover, Power supply 220V, 50Hz</p>	2 Nos.

Lot 7

1	<p>IDEXX Vet Test Machine Set</p> <p>Vetest, CE Recertified, Software upgrade pack, Starter kit</p>	1 No.
2	<p>IDEXX Vet AutoRead Machine Set, Vet Auto Read instrument, Accessory pack (17 items),</p> <p>Auto Read, Starter kit, Vet centrifuge instrument, Vet Lab sample prep Rack.</p>	1 No.

Lot 8

1	<p>All-In-One video Microscope with HD camera and HD monitor</p> <p>(a) Microscope Specifications</p> <p>Optical system – AIS E-Plan optical system</p> <p>Head – Siedentopf binocular viewing head, inclined 30°</p> <p>Eyepiece – PL10X/20mm diopter adjustable eyepiece, 20mm field of view</p> <p>Nosepiece – Reversed quadruple nosepiece</p> <p>Objectives – AIS E-Plan achromat objective (4×, 10×, 40×,</p>	1 No.
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	<p>100×)</p> <p>Focusing system - Coaxial coarse and fine focusing system, with stop limit and tension adjustment. Travel range: 25mm. Fine focusing precision: 0.002mm</p> <p>Stage - Built in low position coaxial control mechanical stage, area 140x132mm, moving range 76x50mm</p> <p>Condenser - Built-in Koehler illuminator systems, Pre-centered. Iris diaphragm Koehler illuminator condenser and mirror optional.</p> <p>Illuminator - Universal power supply 90~240V voltage, 3W LED light with variable intensity control</p> <p>Size - Height: 60.325 cm *with screen, Width: 27.94 cm *with screen, Depth: 35.56 cm</p> <p>Trinocular design - The trinocular eye tube accommodates the HD imaging system to create a complete fullscreen or splitscreen digital experience</p> <p>Live HD video - The high resolution-mega pixel color camera provides uncompressed full 1080p 60fps video for seamless live viewing, recording, or streaming</p> <p>Fluorescent imaging - Highly adjustable exposure time and gain value make the VETSCAN HD microscope optimal for fluorescent imaging</p> <p>Built-in software - On screen functionality right from the click of a mouse enhances your teaching or consultation experience</p> <p>(b) HD Microscopy and Monitor System</p> <p>HD microscope incorporates dual FPGA processors</p> <p>HD camera offers Full 1080p 60fps video preview for HD output</p> <p>Built in mouse control software for HDMI viewing and recording without a computer</p> <p>Capture and save images in SD card without being connected with computer</p> <p>With 60 fps HDMI and 30 fps USB 2.0 data transfer at 1920×1080 resolution</p>	
2	Teaching aids Veterinary Anatomy Model Set	1 Set.

	<p>Ruminant Stomach of the Cow 1/3 natural size. Rumen and reticulum can be divided into 2 halves to show the relief of the mucous membrane of the stomach. Omasum and abomasum can be opened up. Separates into 3 parts. On a stand and green base. Weight – 2.5 Kg, Dimensions – Length: 18 cm, Width: 28 cm, Height: 35 cm</p> <p>Domestic Hen Natural size. Modelled from a natural skeleton. The right side shows the feathers the left side the organs. By a simple operation the torso can be taken from the feathers to show the muscular system. Comprises 5 parts. On a green base. Weight – 2.55 Kg, Dimensions – Length: 26 cm, Width: 43 cm, Height: 49 cm</p> <p>Equal cell division and formation of nuclear membrane in embryo</p> <p>Branchiostoma lanceolatum enlarged approx. 500 times. Nine models (A – J) on stands with green bases show the various stages in cell division the formation of the blastula and original membrane. In one piece. Weight – 3.2 Kg</p>	
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Lot 9

1	<p>Hot Air Oven Capacity: 250 Litres Temperature range +10–200°C (300°C), Heat up time 30min, External chamber material: Cold-rolled steel+powder coating</p>	1 No.
2	<p>Muffle furnace Capacity: 14 Litres Maximum temp 1200°C, Power supply 220V/2.5kW Temperature precision:±1°C, Heating rate<25°C/min Furnace structure: Chamber material, temperature controller system, heating element, furnace shell and other assistant part Chamber materials: High temperature polycrystal alumina</p>	1 No.

	ceramic fiber material	
3	Porcelain crucible 5ml capacity, Heat stable for furnace use	100 Nos.

Lot 10

1	Routine PCR, MiniAmp Thermalcycler (96 reactions) Brand: Applied Biosystems™ Format: 96-well plate, High Throughput Compatibility: High Throughput-Compatible Reaction Speed: Fast or Standard Contents and Storage: MiniAmp Thermal Cycler including specific power cord	1 No.
2	E-Gel Power Snap Electrophoresis System, Starter Kit Portable Brand: Invitrogen™ Product line: E-Gel™ Product size: 1 kit Contents and Storage: 10 E-Gel EX agarose gels 1%, 1 electrophoresis device, 1 viral E-Gel 1 Kb Plus Express DNA Ladder, Sample Loading Buffer (1X), 1 Gel opening knife, 1 camera device, 1 power adaptor, 1 pair of viewing glasses	1 No.

Lot 11

1	Digital Incubator Model- LSI 3016R Universal Spring Rack Temp. range: Ambient 10 °C to 60 °C Shaking speed: 0 to 300 rpm Controller: Digital PID Controller Display: LED 4digit display Timer: 99hr 59 min/continuous selectable Electric supply: 220V, 50/60 Hz, Manufacturer: Labtech Country of Origin – Korea/Indonesia	1 No.
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2	<p>PCR Thermal cycler Model: TC-TE Sample capacity: 96 x 0.2 ml, 8-strip, 24 x 0.2 ml plate Temperature control range: + 4 ~ +99°C Heating speed of ramping: up to 4.0°C /sec Cooling speed of ramping: up to 4.0°C /sec Ramping rate adjustable: 0.1°C - 4°C Max. cycles: 99 cycles for Nested PCR Time up/down: 0-9 min59s, suit for Long PCR Temperature up/down: 0.1 - 9.9°C suit for Touch down PCR Display resolution: 0.1°C Memories: 250 typical programs (unlimited by USB) Include with Gradient Block 96G for 96x0.2 ml microtube BOE 8085001 Block 96G: 96 x 0.2 ml gradient block Electric supply: 100-240V Manufacturer: Boeco, Country of Origin - Germany</p>	1 No.
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Lot 12

1	<p>Haematological Analyser BC-2800, Color LCD display resolution: 800×600 RS 232×2.1 parallel printer, 1 barcode scanner, 1 keyboard interface, Thermal recorder, 50mm width paper, multiple printout formats, external printer, AC 100-240V, 50/60 Hz 322 mm(W) ×437 mm(H)×386mm(D), 23 kg (Wt)</p>	1 No.
2	<p>2 D Ultrasound ECO1 Vet, Convex Probe 12" rotatable LED monitor, Cine loop: 256 frames, Display modes: B, B/B, 4B, M, B/M, 4 step zoom Advanced BW Imaging USG Portable Vet, Battery, Convex Probe, Probe Port</p>	1 No.
3	<p>Oxygen Machine Outlet pressure; 40Kpa-60Kpa, Flow rate; 0-5L/min Oxygen >93% (1LMP), Voltage: 220V, Working noise;40dB, Wt; 8 Kg</p>	1 No.

4	Pet Digital Scale Brand : NVK, Brand no: NVK-FSO4, Certification: OIML Capacity: 75 Kg, Division:10g, Platform size:90×55, Material: stainless steel, Power:AC110-220V	1 No.
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Lot 13

1	Pellet Making Machine+ Motor (40HP)+Power Meter Country of Origin: China Feed Production capacity: 1 Ton/hour Motor: 40HP (Horse Power) Power Meter: Maintenance accessories for power meter	1 Set.
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၂။ တင်ဒါပုံစံနှင့်တင်ဒါစည်းကမ်းချက်များကို ကျပ်(၂၀၀၀/-)နှုန်းဖြင့် မွေးမြူရေးဆိုင်ရာ ဆေးတက္ကသိုလ်၊ ငွေစာရင်းဌာန၊ ၀၆၇-၃၄၁၆၆၅၈ သို့ ရုံးချိန်အတွင်း ဆက်သွယ်ဝယ်ယူနိုင်ပါသည်။ အသေးစိတ်သိရှိလိုသော အချက်အလက်များကို ဖုန်းအမှတ် ၀၆၇-၃၄၁၆၅၂၆ သို့ ရုံးချိန်အတွင်း ဆက်သွယ်မေးမြန်းနိုင်ပါကြောင်းနှင့် အရည်အသွေးသတ်မှတ်ချက်များကို တက္ကသိုလ်၏ website www.uvsyazin.edu.mm တွင် ကြည့်ရှုနိုင်ပါကြောင်း ကြေညာအပ်ပါသည်။

တင်ဒါလက်ခံရေးနှင့်စိစစ်ရေးကော်မတီ
မွေးမြူရေးဆိုင်ရာဆေးတက္ကသိုလ်
ရေဆင်း၊ ဇေယျာသီရိမြို့နယ်၊ နေပြည်တော်