

ٹینڈر فارم کی قیمت = 4,000 روپے

قومی زبان میں تعلیم



قومی ترقی کا ذریعہ

ٹینڈر برائے خریداری و تنصیب سائنسی آلات
برائے شعبہ فارما کولوجی

ٹینڈر کھلنے کی تاریخ: 15-01-2018

ٹینڈر نمبر: TS337106E

وفاقی اردو یونیورسٹی برائے فنون، سائنس اور ٹیکنالوجی

دفتر رجسٹرار، انتظامی بلاک، گلشن اقبال، کراچی 75300

ٹینڈر دہندگان کے لئے ہدایات/شرائط

- 1 ٹینڈر میں اعداد و شمار صحیح طریقے سے صاف صاف درج کئے جائیں۔ قیمتیں ہر طرح کے میکسز شامل کر کے اعداد اور الفاظ دونوں میں واضح طور پر لکھی جائیں جو کم از کم نوے (90) ایام کے لئے قابل قبول ہوں۔
- 2 ٹینڈر بھرنے کے سلسلے میں غلطیوں سے حتی الامکان گریز کیا جائے اگر کسی غلطی کو صحیح کرنا ہو تو ایک سطر سے قلم زد کر کے اس کے اوپر دوبارہ صحیح تحریر درج کی جائے اور دستخط ثبت کئے جائیں۔
- 3 ٹینڈر فارم پر اکم ٹیکس اور جنرل سیلز ٹیکس رجسٹریشن نمبر لازماً تحریر کئے جائیں اور متعلقہ سرٹیفکیٹ کی تصدیق شدہ فوٹو نقل منسلک کی جائیں۔
- 4 کوئی قلم زد (بلیک لسٹ) کیا گیا ٹینڈر دہندہ یا اس کا کوئی شراکت دار یا کوئی ایجنٹ یا کوئی رشتہ دار جو ٹینڈر دہندہ کے ساتھ کاروبار میں مددگار رہے ہوں ٹینڈر دینے کے اہل نہیں ہیں۔
- 5 پیش کردہ لاگت کا 2 فیصد بطور زر بیعانہ بہ شکل پے آرڈر بحق وفاقی اردو یونیورسٹی برائے فنون، سائنس اور ٹیکنالوجی ٹینڈر کے ساتھ جمع کرانا ہوگا، ٹینڈر منظور ہونے کی صورت میں یہ رقم دس فیصد زر ضمانت کا جزو تصور ہوگی۔ بصورت دیگر متعلقہ ٹینڈر دہندہ کو پے آرڈر واپس کر دیا جائے گا۔
- 6 پورا ٹینڈر یا ٹینڈر کا کوئی حصہ منظور ہونے کی صورت میں منظور شدہ رقم 10 فیصد بوقت ادائیگی بل سے روک لیا جائے گا۔ جو فراہمی مکمل ہونے کے 100 دنوں بعد واپس کیا جائے گا۔ غیر تسلی بخش کام کی صورت میں زر ضمانت بحق یونیورسٹی بذرا ضبط کر لیا جائے گا۔
- 7 تمام ٹینڈرز موقع پر ٹینڈر دہندگان/ان کے با اختیار نمائندوں کے سامنے کھولے جائیں گے۔ ٹینڈر کی تفتیح کے بعد تقابلی گوشوارہ مرتب کیا جائے گا جس کی روشنی میں ورک/سپلائی آرڈر جاری کیا جائے گا۔
- 8 زیر دستخطی بلاک PPRA قواعد کے مطابق کسی ٹینڈر کو جزوی/کلی نام منظور یا ٹینڈر فارم میں درج مقدار میں کمی بیشی کر سکتے ہیں۔
- 9 طلب کردہ سامان مقررہ وقت پر فراہم کرنا، نصب کرنا اور چلا کر دینا ہوگا۔ کام ادھورا چھوڑ جانے کی صورت میں یہ کام ٹینڈر دہندہ کی ذمہ داری Risk & Cost پر مکمل کر لیا جائے گا اور تمام اخراجات ٹینڈر دہندہ سے وصول کئے جائیں گے۔
- 10 ٹینڈر میں دی گئی تفصیل کے مطابق سامان کے نرخ درج کئے جائیں۔ متبادل سامان کے لئے علیحدہ شیٹ استعمال کی جائے۔
- 11 مقامی خریداری کی صورت میں جملہ سامان 60 ایام کے دوران فراہم کرنا ہوگا۔ کام مکمل کرنے میں بلاوجہ/غیر ضروری تاخیر کی صورت میں PPRA قواعد کے مطابق کارروائی کی جائے گی۔
- 12 کام کرنے کا آرڈر حاصل کرنے کے بعد کام شروع کرنے میں عدم دلچسپی ظاہر کرنے اور تاخیر کر کے اختیار کرنے کی صورت میں پرچیز آرڈر مسٹر دکر کے ذریعہ ضبط کر لیا جائے گا اور قانونی کارروائی بھی کی جائے گی۔
- 13 ٹینڈر دو الگ الگ لفافوں میں بند کر کے ایک ساتھ پیش کیا جائے۔ سامان کی تفصیلات/بروشر وغیرہ، معتبر ڈیلر شپ سرٹیفکیٹ، اکم ٹیکس، سیلز ٹیکس رجسٹریشن سرٹیفکیٹس اور کمپنی پروفائزلز الگ لفافے میں بند کئے جائیں پہلے یہ لفافہ کھولا جائے گا۔ مطلوبہ سامان اور فرم کا معیار جانچنے کے بعد نرخ نامہ (دوسرا لفافہ) پڑھا جائے گا۔ بصورت دیگر نرخ نامے کا لفافہ یعنی ٹینڈر دہندہ کو واپس کر دیا جائے گا۔
- 14 سامان درآمد کرانے کی صورت میں پروفارمانوائس غیر ملکی کرنسی میں جمع کرائی جاسکتی ہے۔ یونیورسٹی L.C کھولے گی۔ جب کہ پورٹ سے سامان واپس کرانے اور یونیورسٹی کی کمپس تک سامان پہنچانے کی ذمہ داری سپلائر پر ہوگی یونیورسٹی ہر طرح کے قانونی اخراجات کی باز ادائیگی (Reimbursement) کرے گی/ڈاکومنٹیشن فراہم کرے گی۔

دستخط و مہر ٹینڈر دہندہ

(آصف علی)

رجسٹرار

فرم کا نام:

پتہ:

فون:

نیشنل ٹیکس نمبر

جی ایس ٹی نمبر



Tender No. TS337106E

Federal Urdu University Arts, Science & Technology, Karachi**Statement Showing Summary of Cost for the Tender Supply of
Scientific Equipment for Department of Pharmacology**

Sr.No	Description	Qty	Unit Price	Amount	17 % GST	Amount with GST
1	Auto Clave	1				
2	Spectrophotometer	1				
3	Trinocular Microscope with Camera:	1				
4	For motor coordination Accelerating Rota-Rod for 4 rats or 4 mice	1				
5	Balance Analytical:	1				
6	Hotplate analgesiometer	1				
7	Plethysmometer	1				
8	Metabolic Cage for Rats 150-300 grams Metabolic cages	3				
9	Metabolic Cage for MICE Metabolic cages (for urine and feces output)	3				
10	Pyrogen testing setup with software and 15 Probes expandable upto 90 Probes.	1				
11	Blood Analyzer	1				
12	Rotary Microtome	1				
13	Gradient PCR Thermal Cycler	1				
14	Jeldoc Electrophoresis assembly	1				
15	Skeletal Body Parts	1				
16	Convulsio meter	1				
17	Spirometer	1				
18	Digital Precise Circulation Water Bath	1				
19	UV LAMP	1				
20	Animal Weighing Balance	1				
21	Portable Precision Balances	1				
22	Gel Documentation System	1				
23	Water Purification System	1				
Total						

Name of Bidder
(with office seal and signature)



Tender No. TS337106E

Federal Urdu University Arts, Science & Technology, Karachi
Tender for Supply of Scientific Equipment for Department of Pharmacology

I/We Do hereby Tender for Supply of Scientific Equipment as per details discribed in the undermentioned memorandum according to the Specification within the time specified at the rate Specified there in subject to the condition here unto annexed.

MEMORANDUM: Earnest Money Rs. _____ (in words) _____

Vide Pay Order No. _____ Dated _____ Name of Bank _____

Sr. No.	Description				
1	<p>Auto Clave: Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System Patented Special Steam Condensing Mechanism Built in DAIHAN-brand New Generation Controller : Patented Jog-Dial Control System Electronic Door Lock Sensing System for User Safety. Patented Safety and Easy to Use Lever-type Sliding Door Door Open Button Automatically Lock Over 80°C for User Safety Built in Recorder model (only MaXterile 47R/60R/80R/100R models) : Print Sterilization Cycle Data for Validation and Analyze Sterilization (Temperature, Pressure, Time, Error Status, etc.) “CE-MDD (CE 0470- Medical Device Directive) Certified” (MaXterile100, MaXterile100R excluded) PL(Product Liability) Insurance * Ideal for Biotechnology, Clinical, Environmental, Medical and Food Industry. * Innovative Easy-to-Use Digital Fuzzy Controller. * Included 2 x Wire Baskets * Top-loading type Sterilizer for Easy Loading of Large Working Volume. * Casters equipped for Excellent Mobility. * Digital LCD with Back-Light Function. * Digital Timer Function – „Delay Time” and „Operation Time” can be Controlled. * Solid / Liquid Mode can be chosen by a customer considering a Sample Phase. * Complete Safety Pressure Mechanism. * Heat-Protective Lid Cover for User Safety. * Water Low Level Detection * Automatic Over Pressure Release Valve ensures User Safety. * Sterilization Error Indication : Error Alarm and Massage in case of Power Failure and Temperature Error RS232 Interface for Monitoring and Controlling with PC. Specifications: Standard Type Capacity: 60 Lit. Temp. Range & Accuracy: Room +5 °C to 132 °C, +0.5 °C at 121 °C Pressure & Gauge: 1.2 kgf/cm2 at 121 °C / 2.0 kgf/cm2 at 132 °C, 0 ~ 3 kgf/cm2 Sterilization mode: Solid- or Liquid-mode</p>				
QTY: 01		Unit Price	Amount	GST	Total

Name of bidder
(with Office Seal and Signature)

2	Spectrophotometer Microprocessor control, 16x2 LCD display. - Auto zero and auto 100%T adjustment provided. - Calibration curve can be set up by either measuring or entering up to 10 standards or entering K and B factors directly via the keyboard. - Parameters can be saved for later use. - Up to 10 calibration curves can be stored and edited for user's convenience. - Data can be printed on an optional desktop printer and can be downloaded to a PC through RS-232. Wavelength: 190~1100nm - Wavelength Accuracy: $\leq 2.0\text{nm}$ - Wavelength Reproducibility: $\leq 1\text{nm}$ - Monochromator: Single-beam C-T type, grating 1200L/mm - Photometric Accuracy: $\leq \pm 0.5\%T$ - Photometer Reproducibility: $\leq 0.3\%T$ - Stray Light: $\leq 0.1\%T$ (NaI at 220nm, NaNO ₂ at 340nm) - Spectral Bandwidth: 2nm - 0%T Stability: $\leq 0.2\%T(30\text{min})$ - 100%T Stability: 0.001A/30min (at 500nm, after warming up) - Operation Mode: T, A, C, E Photometric Range: -0.3~3A - Display: 16x2 LCD - Detector: Silicone Photodiode - Light Source: Tungsten halogen lamp, D2 lamp				
	QTY: 01	Unit Price	Amount	GST	Total
3	Trinocular Microscope with Camera: Optical System: Antifungal Infinity corrected optical system Stand: Single mold sturdy stand with anti rust materials. Extended base with hand rests for enhanced stability and comfort. Viewing Body: Siedentopf Trinocular tube, 30° inclined, 360° captive rotation, interpupillary distance 48-75mm Eyepieces: Wide Field focusable paired eyepieces WF 10x/20mm, with eyeguard, antifungal coatings Nosepiece: Reverse angle Quadruple nosepiece (ball bearing type) with click stops and rubber grip Objectives: RP series DIN Infinity Corrected Plan Achromatic objectives, antifungal coatings 4x/NA 0.10/WD 30.0mm 10x/NA 0.25/WD 4.50 mm 40x (spring loaded)/NA 0.65/WD 0.50mm 100x (spring loaded, oil)/NA 1.25/WD 0.13mm Mechanical Stage: RACKLESS X axis, double plate mechanical stage plate size 200 x 140mm, X/Y travel range 78 x 54mm. Low drive movement controls. Hard coated surface for scratch resistance. Detachable double slide holder. All brass gears. 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: Feather touch attrition free coaxial coarse and fine focus adjustment with auto tension adjustment for longer life and ultra smooth movement. Weighted fine focus. Illumination: LED Illumination with built-in rechargeable battery making it cordless during use. Electrical: Universal input 100V 240V AC, 50/60 Hz Digital Camera Module Digital Camera Module 5.0 Megapixel Sensor: 1/2.5" 5.0 Megapixel Color CMOS Active area: 5.70mm x 4.28mm Sensor resolution: 2592 x 1944 pixels Pixel Size: 2.2μm x 2.2μm Digitization: 12 Bit RGB Pixel clock: 48 MHz Dynamic range: 68 dB (measured at 10 ms exposure) Max exposure: 3S Min exposure: 1S Live Image: 30 fps (1280 x 720) for Digital & 30 fps (720P) for Analog Scan Mode: Progressive Image resolution: Standard: 2592 x 1944 1280 x 720 640 x 480 Interface: USB 2.0 and Composite Analog Out Optical connection: C- Mount Voltage supply: 5V/2Amp through USB 2.0 or External Supply Power consumption: approx. 1.8W Ambient conditions: Temperature: -30°C ... +70°C, Humidity: up to 80%, not Condensing Indicator: Green LED indicating power on and ready for capture Integrated slot: SD card slot for SD and SDHC Cards Recording: Button for image capture and video capture Refresh: Reset toggle refreshes white balance and restores camera to factory preset Analog Interface: NTSC/PAL toggle switch on board				
	QTY: 01	Rate:	Amount	GST	Total

Name of bidder
(with Office Seal and Signature)

4	For motor coordination Accelerating Rota-Rod for 4 rats or 4 mice Should include, Sedacom V2.0 Software KEY FEATURES: <ul style="list-style-type: none"> • NEW Touchscreen User Interface • Combined Rota Rod for mice and rats available • Mechanical detection of fall • Individual lane timers • Constant speed and fixed acceleration rate modes Base Unit Dimensions mm (inch) (W x D x H) 362 x 240 x 375 (14.25 x 9.45 x 14.75) Total Height mm (inch) 400 (15.75) Fall Height cm 20 (mouse drum); 21.5 (rat drum) Lane Width mm (inch) 50 (2) - mouse drum; 75 (3) - rat drum Drum Diameter mm (inch) 250 (9.8) Rod Diameter mm (inch) 30 (1) - mouse drum; 60 (2) - rat drum Extra Hood Height mm (inch) 130 (5) Volts: 220 V Must come with all accessories.				
	QTY: 01	Unit Price	Amount	GST	Total
5	Balance Analytical: Vivid, backlit LCD easily visible in any lighting conditions • Colour-coded keys facilitate quick recognition of the most frequently used buttons • Level indicator and adjusting feet ensure proper balance setup for optimum weighing results • Removable draught shield on models with 0.001g readability helps to reduce errors caused by air currents • Robust metal housing protects internal components in harsh environments • Sealed keypad protects against dirt and accidental spills • USB and RS-232 interfaces provide easy communication with computers and printers • External calibration allows for verification and adjustment with weights • Printouts include date and time for data tracking within Good Laboratory Practices (GLP) guidelines • Selectable digital filtering helps minimise effects of vibration and disturbances • Zero-tracking feature ensures display returns to zero reading • AC adapter included Capacity 250g Readability 0.0001g Repeatability (S.D.) 0.0002g Linearity (+/-) 0.0002g Pan Size 90mm ø Weighing Units g, mg, ct, GN, oz, ozt, dwt, custom unit Stabilization Time (sec) 3 Interface RS-232 / USB Calibration Internal calibration Display Backlit LCD with 20mm-high digits Power Supply 18VDC 800mA adapter Operating Temperature 0° to 40°C / 32° to 104°F Housing Extruded aluminum base				
	QTY: 01	Unit Price	Amount	GST	Total
6	Hotplate analgesiometer Hot-Plate, a thick aluminum plate (10 mm) provides a high temperature stability and even surface distribution. The plate temperature can be held at a set point between 45 and 62°C by multiple proportional feedback circuits that minimize overshoot. The design of the hot-plate hinders the animal access to the external zone of the circular plate which temperature suffers the influence of the ambient temperature of the room. A built-in timer activated by an external foot switch allows precise measurement of reaction time (0.1 sec precision). A remote foot-switch controls the test start/stop allowing rapid hands-free experiments. Base Dimensions 200 (W) x 300 (D) x 110 (H) mm Plate Dimensions 200 (D) mm Cylinder Dimensions 200 (D) x 250 (H) mm Operating Temperature 45 to 62 degrees Celsius; 0,1 steps Reaction time 3 digits, 0,01 sec. increment Material Composition Clear methacrylate (animal holder), aluminum (plate) Maximum number of stations 1 per computer (multiple set-ups also available under request) Power Requirements 110V or 220V, 50/60Hz Certifications CE Compliant				
	QTY: 01	Unit Price	Amount	GST	Total

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7	<p>Plethysmomter</p> <p>The Digital Water Plethysmometer is designed to provide a highly useful tool in the measurement of small volume changes. This test is typically used to follow the evolution of the inflammatory response experimentally induced in rodents and to screen potential anti-inflammatory or anti-oedema properties of pharmacological substances.</p> <p>Application: Anti-inflammatory drug screening, Anti-oedema drug screening, Inflammation, Post-operative pain“Check solution” status button</p> <ul style="list-style-type: none">• Conductive solution is easy/cheap to prepare/source• Automatic zero adjustment• Foot switch control• Includes a volume transducer calibratorand tampon solution•optional Data Transfer software <p>SeDaCom 2.0 (RS232/USB communication)</p> <p>SPECIFICATIONS</p> <p>Control Unit</p> <p>Dimensions</p> <p>28 (W) x 28 (D) x 11 (H) cm Resolution 0.01 s steps</p> <p>Stimulation Unit</p> <p>Dimensions</p> <p>23 (W) x 22 (D) x 30 (H) cm Material Composition Clear methacrylate (cell), stainless steel (stand), platinum (electrode)</p> <p>Starting By panel key or pedal switch Power Requirements 220V, 50/60Hz</p> <p>CELL/ELECTRODE SYSTEM & CALIBRATOR</p> <p>1 ml cell with electrode and 1 ml calibrator</p>								
	<table><tr><td>QTY: 01</td><td>Unit Price</td><td>Amount</td><td>GST</td><td>Total</td></tr></table>					QTY: 01	Unit Price	Amount	GST
QTY: 01	Unit Price	Amount	GST	Total					

8	<p>Metabolic Cage for Rats 150-300 grams Metabolic cages</p> <p>(for urine and feces output)</p> <p>This metabolic cage designed specifically for mice features a unique funnel and cone design that effectively separates feces and urine into tubes outside the cage. This cage is designed to allow for immediate, complete and total separation of urine and feces. The usable floor area is 200 cm2 with an internal height of 130 mm.</p> <ul style="list-style-type: none">• Designed to house individual mice• Accurate and reliable separation of solid and liquid waste• Special drain at drinking station separates spilled drink from liquid waste• Autoclavable <p>The cage has a two-part feeding chamber located outside of the cage itself. The front chamber catches spilled food so there is no possibility of food/waste contamination. The water bottle has a special drain to collect overflow while the animal is drinking and diverts it into a collection tube separate from the waste collection tubes. The feeding drawers slide out easily, allowing for removal without interrupting the study.</p> <p>The Mouse Metabolic Cage comes complete with the following components:</p> <p>1. The cone 2. The separation cone 3. The urine collection ring 4. Two collection tubes (for feces and urine) 5. The upper chamber with lid 6. The lower chamber with closure 7. Water bottle 8. Tube for water spillage</p> <p>Components #1 to 4 are made of polymethylpentene (PMP) while components #5 to 8 are made of polycarbonate.</p> <p>The cage can be used without a cage stand, but it is recommended that one be used. Use of a stand facilitates easy access to all of the collection tubes without having to physically lift the cage and disturb the animal. If you choose to use the cage stand or a multiple cage rack, it is necessary to also purchase the support plate.</p>								
	<table><tr><td>QTY: 03</td><td>Unit Price</td><td>Amount</td><td>GST</td><td>Total</td></tr></table>					QTY: 03	Unit Price	Amount	GST
QTY: 03	Unit Price	Amount	GST	Total					

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9	Metabolic Cage for MICE Metabolic cages (for urine and feces output) This metabolic cage designed specifically for mice features a unique funnel and cone design that effectively separates feces and urine into tubes outside the cage. This cage is designed to allow for immediate, complete and total separation of urine and feces. The usable floor area is 200 cm ² with an internal height of 130 mm. <ul style="list-style-type: none"> • Designed to house individual mice • Accurate and reliable separation of solid and liquid waste • Special drain at drinking station separates spilled drink from liquid waste • Autoclavable The cage has a two-part feeding chamber located outside of the cage itself. The front chamber catches spilled food so there is no possibility of food/waste contamination. The water bottle has a special drain to collect overflow while the animal is drinking and diverts it into a collection tube separate from the waste collection tubes. The feeding drawers slide out easily, allowing for removal without interrupting the study. The Mouse Metabolic Cage comes complete with the following components: 1. The cone 2. The separation cone 3. The urine collection ring 4. Two collection tubes (for feces and urine) 5. The upper chamber with lid 6. The lower chamber with closure 7. Water bottle 8. Tube for water spillage Components #1 to 4 are made of polymethylpentene (PMP) while components #5 to 8 are made of polycarbonate. The cage can be used without a cage stand, but it is recommended that one be used. Use of a stand facilitates easy access to all of the collection tubes without having to physically lift the cage and disturb the animal. If you choose to use the cage stand or a multiple cage rack, it is necessary to also purchase the support plate.				
	QTY: 03	Unit Price	Amount	GST	Total
10	Pyrogen tester with Digital display and Temperature Probes.				
	QTY: 01	Unit Price	Amount	GST	Total
11	Blood Analyzer Veterinary: Laser based flow cytometry measuring method <ul style="list-style-type: none"> • Open sampling mode • Smallest sample volume processing: 2*1 µl whole blood processed • Smallest reagent consumption: 70% less than other analyzers • Smallest footprint – A4 paper size • Access – Remote support tool • Continually expanding animal profiles 6 Parameters: WBC, LYM, MON, NEU, EOS, BAS, LYM%, MON%, NEU%, EOS%, BAS%, RBC, HGB, HCT, MCV, RDWcv, RDWsd, MCH, MCHC, PLT, MPV, PCT, PDWcv, PDWsd, P-LCR%, P-LCC Histograms: RBC, PLT Scattergram: WBC Sample volume Aspirated: 30 µl Processed: 2*1 µl Species Dog, Cat and user definable profiles Sampling mode: Open vials Throughput: 50 tests/hour Measuring technology: Laser flow cytometry for WBC Volumetric impedance method for RBC/PLT Photometric for HGB Storage capacity: 40,000 test results incl. scatter- and histograms User Interface; 10.1 inch, 1280x800 resolution LCD touch screen Online Diagnostics: yes				
	QTY: 01	Unit Price	Amount	GST	Total

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12	Rotary Microtome High precision specimen feed Handwheel lock in each position Trimming function in 4 steps Specimen retraction upon backstroke Accoustic signal for end position of specimen movement Ergonomically located coarse feed wheel Spacious, integrated section waste tray Wide range of accessories Basic instrument Object orientation Universal-Cassette-Clamp , orientable 3-component-blade holder applicable for low and high profile disposable blades Section waste tray 1 box disposable blades (50 pcs.) Operation manual Dust cover 1x Allen key for fixation of object orientation to microtome Operating temperature range: +10 °C to +35 °C Temperature range during storage: +5 °C to +55 °C Relative humidity: max. 80% non condensing Humidity during storage: < 8% (1) According to IEC 1010, EN 61010 Section thickness setting range: 0.5 – 60 µm Section thickness selection: 0-2 µm in 0.5-µm steps, 2-10 µm in 1-µm steps 10 - 60 µm in 2-µm steps Trimming thickness: 10 µm, 20 µm, 30 µm, 40 µm Specimen feed: 28 mm (via coarse feed handwheel) Vertical specimen stroke: 60 mm Maximum specimen size: 50 x 50 mm Knife holder - north-south axis: 24 mm Specimen retraction: Automatic Specimen orientation, horizontal: 8° Specimen orientation, vertical: 8° Specimen orientation, z-axis: 360° Section counter (optional): Strokes [n]				
	QTY: 01	Unit Price	Amount	GST	Total
13	Gradient PCR Thermal Cycler The single block Alpha Cycler 1 (AC-1) is a compact and feature driven entry level PCR machine with ease of use and performance at its core. Alpha Cycler software has features such as recently used Programs; allowing users to quickly access their most commonly used protocols without the need to navigate through folders to find it, individual user logins; with protected protocols as-well-as allowing users' access to temperature logs after each run to monitor the state of the system. • Compatibility with Alpha Track Mobile reporting App. • Active Sample cooling - For sharper amplification and minimal non-specific amplification. • Program Wizard - Generate a protocol specific to your sequence, template source and amplicon length in seconds. • 96 well gradient blocks - Flexibility for any scale and user needs. • USB connectivity and login/out function – Login and out to any system with it automatically configured to your defaults. • Android driven 7" tablet interface – HD screen with excellent response. Format: Single block Block: 96 well Maximum heating rate: 3.4°C per second Block temperature range: 10°C to 100°C (4°C final hold) Block uniformity at 55°C: ± 0.3°C Temperature accuracy at 55°C: ± 0.25°C Gradient: Yes Maximum Gradient: 29°C Gradient: 1°C Maximum number of programs stored: 1000 Maximum fan noise: 50dB Peltier element type: 8 Adjustable heated lid temperature: 35°C to 115°C or off Heated lid pressure: Adjustable Software Platform: Android Program interface: 7" inch HD Data transfer: USB port Auto re-start on power failure: Yes Power: 100-230Volts, 50/60Hz, 450W				
	QTY: 01	Unit Price	Amount	GST	Total

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14	Geldoc Electrophoresis assembly Midi plus-1 has been designed for routine horizontal gel electrophoresis with gel tray options of 10 x 7cm and 10 x 10cm. Extending only the width of this unit allows more samples to be resolved per gel. A maximum of 100 samples per gel can be resolved making this unit ideal for those routinely checking medium numbers of samples over short to medium gel run lengths. Low buffer consumption Single molded tank Two tray options available Easy sample loading Great indications for gel making and running No tapes, clamps or spring Gel Dimension: 100 x 70 mm ; 100 x 100 mm Maximum Sample: 50 samples - 100 x 70 mm Tray; 100 samples - 100 x 100 mm Tray Unit Dimension: W220 x L125 x H90 mm Buffer Volume: 300 ml Construction: Injection molded construction, durable, leak proof environment for complete safety and long life Cassette Type Electrodes: Inexpensive, easy to replace; made of 99.99% corrosion; resistant; pure platinum Electrical Safety: Lid can be located in one way only. On removal, power is disconnected from buffer chamber, Rapid Casting Gel: Use casting dams Combining small size and versatility, the newly redesigned power supply is an ideal choice for any researcher. Capable of providing constant voltage or constant current in 1V or 1mA steps, the unit is perfectly suited to run both vertical polyacrylamide or horizontal agarose gel electrophoresis experiments. Continuous or timed peration are easily performed using the simple and user-friendly interface. The Mini Pro 300V features 2 electrode pairs, allowing for 2 gels to be run simultaneously, saving both time and valuable bench space. With a universal voltage rating, the Mini Pro 300V is also designed and constructed to the most rigorous safety standards. Packages including single or dual horizontal electrophoresis systems and mini vertical electrophoresis systems are excellent choices for educational or personal use. New housing and exterior design Constant voltage or constant current operation 1V step voltage selection; 1mA step current selection 400mA maximum current 60W maximum power Two pairs of outlet terminals Timer with alarm function Safety device Compact size and lightweight Competitive pricing choice Packages with midi sized horizontal electrophoresis systems and vertical electrophoresis systems				
	QTY: 01	Unit Price	Amount	GST	Total
15	Skeletal Body Parts Life-size male skeleton model showing all important structures and foramina, including a spine with nerves and a disc prolapse. (Imported) China not acceptable				
	QTY: 01	Unit Price	Amount	GST	Total
16	Convulsio meter reliable induction of seizure for testing anticonvulsant drugs. For testing anticonvulsant drugs For mice and rats Two types of electrodes are available: for eyes or ears Foot switch operation Security circuit for maximum users safety Stimulation Frequency 50 Hz Stimulus Duration 0.1 sec to 9.9 sec in steps of 0.1 sec, selected after pressing a button, the selected time is indicated Stimulus Energy Up to 75 W Output Constant current, fully floating Output Current Standard Version 0 to 300 mA, 0 to 150 mA, 0 to 100 mA depending on maximum stimulation voltage selected, the setting is made on a 10-turn potentiometer and the selected value is shown on the digital display Limitation of Maximum Stimulation Voltage 250 V, 500 V, 750 V in 3 steps, selected by button Digital Display The selected stimulation current is indicated continuously in mA, the actual current applied is shown during application and can be called up later by pushing a button, the selected stimulation time is shown on pressing the TIME button, bargraph indicates the course of the stimulation time. Supply 220 VAC, 50 Hz				
	QTY: 01	Unit Price	Amount	GST	Total

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17	Spirometer PC based spirometer • Direct connection to PC port • Simple patient search • BD test and challenge test • Meets ATS standard Flow detection Lilly type pneumotach sensor(Bi-directional) Flow range +/- 0.05 to +/- 14L/s Flow resolution 0.01L/s Volume detection Flow integration Volume range +/- 0.01 to +/- 10.0L Volume resolution 0.01L Volume accuracy +/- 3% or +/- 0.05L, whichever is greater(ATS) Power requirement Computer USB port Dimensions 74.8(W) x 87.7(D) x 223(H) mm(Flow sensor unit) Weight 250g(Flow sensor unit) Requirement Microsoft Windows based PC running Windows 98, 2000, XP or newer, a CD-Rom drive				
	QTY: 01	Unit Price	Amount	GST	Total
18	Digital Precise Circulation Water Bath CE Certified PL(Product Liability) Insurance with Certificate & Traceability : Controlled by Serial Number, Certificate, Delivery-information, and Traceable Data Base System Digital Fuzzy Control System Implementing Superior Temperature Accuracy Patented Jog-Shuttle Control System and Digital LCD with Back-Light Function Ideal for Biotechnology, Clinical, Environmental, Medical, Petroleum, Food Industry, Pharmaceutical and Industrial Applications. Warning and Automatic Stop Function in case of Liquid Shortage. User's Self- Compensation Function to Control Difference between Real Temp. and Indicated Temp. ($\pm 10.0^{\circ}\text{C}$). Powerful Circulation Pump Assures Temp. Uniformity: Internal and External Circulation. 304 Stainless-steel Bath & Lid for Superior Durability & High Thermal Efficiency/Constant. Connection with Evaporators and Viscometers is applicable. Storage Function for the Set Values of Temperature and Timer. Alarm function : Error Status and Timer-end. Locking Mode Supported for Experimental Safety (Input to Jog-Shuttle can be Disabled) Capacity: 6 Lit Temp. Range & Accuracy: Room Ambient +5 0C ~ 100 0C, +0.10C Temp. Resolution: 0.10C Display, 0.10C Control Temp. Uniformity & Probe: 0.2 0C PT 100 Heating Power: 800 W Pump: 5 Lit /min (internal/external) Circulation Nozzle: i.d. 7 x 0.d 11mm (i.d.9/ o.d. 12mm silicon tube connected for inner circulation) Timer & Alarm: 99hr 59min (Delay & Continuous run) Error status & Timer end Display: Digital LCD display with Back Light Function Controller: Digital fuzzy controller with jog- shuttle switch (Turn + Push) Safety Devices: Over temp and over current protector, sensor error and low level detector Lid: Included Stainless steel Flat Drain Valve: None				
	QTY: 01	Unit Price	Amount	GST	Total
19	UV LAMP Tubes (Watt): 4&4W Wavelength (nm): 254/365 Intensity at 15cm ($\mu\text{w}/\text{cm}^2$): 300/350				
	QTY: 01	Unit Price	Amount	GST	Total

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20	Animal Weighing Balance check weighing with low and high limit indication Capacity tracker, RS-232 bi-directional interface, Rechargeable battery, 3 Weighing units (g, lb, oz), Adjustable filters, Memory accumulation, Easy to use keypad, Date and time, Full range tare, Tare function, Check-weighing with low and high limits, Check weighing LED bar graph, Large backlit LCD display, Capacity tracker, Non-slip adjustable feet, Overload protection, Large stainless steel pan, Colour coded, sealed keypad, Full colour coded keypad with numeric entry Simple user-friendly operation, Splashproof to protect from accidental spills, Precision load cell technology Internal counting resolution 1:400,000, Easy access to the rechargeable battery, RS-232 bi-directional interface, Rechargeable battery up to 90 hours operation, Auto sleep / power down function to save battery life Zero adjust facility to enable zero reading, Low battery indication, AC Adapter, Weighing , Parts counting, Percentage weighing, Animal / dynamic weighing, Check weighing, Check counting, Maximum capacity 8000g, Readability 0.1g Repeatability (S.D.) 0.2g, Linearity (±) 0.3g, Pan size 300×400mm, Typical stabilisation time 2-3 Sec, Units of measurement Gram (g), Kilogram (kg), Housing ABS Plastic Indicator and Stainless Steel Pan				
	QTY: 01	Unit Price	Amount	GST	Total
21	Portable Precision Balances Vivid, backlit LCD easily visible in any lighting conditions • Programmable backlight can be set to "always on," "always off" or "light only when weighing" • Capacity tracker built into display for easily monitoring possible overloads • Balances stack efficiently and safely to save space (120mm pan size only) • Colour-coded keys facilitate quick recognition of the most frequently used buttons • Dual tare keys facilitate operation with either the left or right hand • Level indicator and adjustable feet ensure proper balance setup for optimum weighing results • Security slot for optional Kensington-type lock and cable to help prevent theft • Large, grade 304 stainless steel pan allows easy cleaning • Solid ABS housing is durable for industrial uses • Three-point ShockProtect® feature helps prevent overload damage to internal components • Hook included for weighing below the balance • Internal calibration eliminates need for external weight set • USB and RS-232 interfaces provide speedy communication with computers and printers • Audible overload alarm warns when capacity has been exceeded • External calibration allows for verification and adjustment with weights • Selectable digital filtering helps minimise effects of vibration and disturbances • Parts counting with preset sample sizes • Memory accumulation totals results • Zero-tracking feature ensures display returns to zero reading • AC adapter included • Rechargeable battery included for operation almost anywhere • Programmable auto power-off to save energyCapacity 6000g Readability: 0.1g Repeatability (S.D.): 0.2g Linearity (±): 0.4g Pan size: 145mm Ø Weighing Units g, lb, oz, N, GN, ct, dr, dwt, mm, ozt, T, tl.H, tl.S, tl.T Stabilisation Time (sec) 2 Interface RS-232, USB Display Backlit LCD with 18mm-high digits Power Supply 12VDC 50/60Hz 800mA adapter / Internal rechargeable battery Operating Temperature 0° to 40°C Housing ABS plastic				
	QTY: 01	Unit Price	Amount	GST	Total

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22	<div><div><div><div><div><div><h3>Gel Documentation System</h3><p>Compact Digimage System with 10.0megapixel digital camera and built-in 254 & 365nm UV Transilluminator. The Compact digimage system is a complete and compact gel documentation system with a digital control panel. It contains a digital camera with a superb resolution of 12.1 megapixels. The system is equipped with a built-in UV transilluminator and a large 8" TFT colorful screen for gel observation. Its side access design provides a safe and convenient way for the user to recover agarose gel bands. For limited space, low budget requirements, the Compact digimage system can be operated without a computer. A variety of images can captured including: agarose and other fluorescent gels, colorimetric gels, autoradiography film, and blotting membrane. A safety switch is equipped to turn off the UV transilluminator automatically when the front door is opened. Files can be saved in a variety of formats, including RAW format, for transfer to a computer for storage and analysis. The Digimage system can also directly connect to a thermal printer for printing the result immediately.</p><p>10.0 megapixel digital camera</p><ul style="list-style-type: none">• High resolution 8" TFT screen• Digital control panel• Compact chamber and lightweight• Multi focus area selection• Built-in UV transilluminator• Can be operated computer free• Connect port for thermal printer• Inner 2 x 3 watt white light LED• Safety door switch• Multi power source<p>Camera Type 5 x optical / 4 x digital zoom digital camera Effective Pixels approx. 10.0 megapixels CCD 1/1.7" high-density CCD; total pixels 15.0 million Maximum Aperture f/2.8 (W) ~ f/4.5 (T) Shutter Speed 15 ~ 1/4000 sec. Filters +3 Close up filter and EtBr or SYBR Green filter(optional) Storage Media memory card Computer Interface USB 2.0 Hi-speed (mini-B jack) Vedio Out NTSC / PAL Darkroom Multi-power source For camera, inner white LED, TFT screen Inner white light 2 x 3 watt white LED Safety Device Safety door switch Side Access For cutting gels Unit Dimension (W x D x H) 335 x 540 x 470mm Chamber Construction Material Painted metal Rated Voltage 110V ~ 220V Unit Weight Approx. 20.0kg, 8" TFT Screen Type 8" TFT crystal screen Resolution 800 x 600 pixels Brightness 350cd / m 2 Constant Ratio 300 : 1 Display Mode NTSC / PAL / SECAM mode auto switching UV Transilluminator Wavelength 254 / 312 / 365nm Filter Size 210 x 210mm Light source 8W x 6 tubes Filter Long life filter Intensity Switch High (100%) / Low (70%) Intensity switch Thermal Printer and computer</p></div></div></div></div></div></div>								
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23	<div><div><div><div><div><div><h3>Water Purification System</h3><p>Output: Pure water Type II (analytical grade) according ASTM D1193 (American Society for Testing & Material) Input: Tap water Production: 1 l/min (60liters/hour) Purification process control: By microprocessor Installation requirements: 120/220V AC + water supply (≤ 3 m. distance / ≥ 2 bar pressure) Guarantee: 12 months from installation. Equipped with Kit of Cartridges Purifies Tap water to Type II Analytical Grade Water, for general laboratory use. The equipment screen shows the conductivity of the water being dispensed (± 0.1µS/cm). The electronic system has visual and audio alerts for replacement of consumables: - Deionization module replacement when water conductivity reaches the set point and resin cartridges need to be replaced. The set point can be preset by the user.</p><p>Very easy to install. Quick and easy maintenance, no tools required. Economic: lower cost per liter of water produced. The equipment is delivered calibrated from factory (QMS ISO9001) CE marking: The equipment meets Low tension and Electromagnetic compatibility standards - EMC (emission and immunity) At the request of the client, subsequent calibrations can be carried out following a calibration pattern according to international standards</p><p>Conductivity < 1 µS/cm</p><p>Maximum Pressure 6 Bar Minimum Pressure 2 Bar Temperature 5-35 °C</p></div></div></div></div></div></div>								
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