

Tender No:

KDU/PRO/CAP/66/2022



General Sir John Kotelawala Defence University,
Kandawala Estate, Ratmalana,
Sri Lanka.
T: Phone: 2632028 , 2622995
Fax : 2622504, 2623599
Web: www.kdu.lk

18 / 02 / 2022

INVITATION TO BID AND GENERAL CONDITIONS OF TENDER

1. The Vice Chancellor of the General Sir John Kotelawala Defence University, as the Chairman, Department Procurement Committee Invites Bid/s from prospective Bidders for supply of **item/s listed in the schedule in Annex "A". The relevant specifications of the item/s are indicated in Annex "B".**

2. **CLOSING DATE & TIME.** The tender will close at 1000 hrs. on 15 /03/2022. Any Bid submitted after the closing time of the tender will be rejected & unopened such bids will be returned to the bidder.

3. **VALIDITY OF BID.** The bid submitted under this tender **must be valid for a period of 120 days from the date of closing of tender.**

4. **BID BOND / GUARANTEE.**

(a) If the quoted bid value exceeds Rs: 2,000,000.00, such Bids should be accompanied with 1% of Bid Value an "on demand" and "unconditional" Bid Bond/Guarantee for a sum of **Rs:** in the format given in Annex "C" through a recognized local Bank or Insurance Company registered in Sri Lanka which is authorized by the Insurance Board of Sri Lanka to issue such Bid Guarantees. All Bid Bond/Guarantees should be valid for at least 30 days more than the validity period of bids, ie, for 150 days from the date of Bid opening. **Cheques will not be accepted as Bid Guarantee.**

(b) Submission of insufficient Bid Bond/Guarantee value or period will be considered as a "**major deviation**" and such offer will not be considered for further procurement action and will be rejected.

5. **VALUE ADDED TAX.** The Bidders who bid for locally delivered items must have the VAT registration. The VAT portion must be shown separately in the price schedule in Annex "A" and VAT registration number must be indicated. If the quoted item is exempted from VAT or Bidding Company is not liable for VAT, reference number and date of relevant Act number/Gazette notification/a certificate (as applicable) **issued for the current financial year** from the Commissioner General of Inland Revenue to that effect should be submitted along with the Bid.

6. **BID SUBMISSION.** The **bidder must duly sign at the last page (before Annexes) of this document** indicating the name of the signatory and the name of the company & place the company common seal to confirm the acceptance of tender conditions. **The Bid/s that do not include authorized signature will be rejected.** The Bid/s duly signed by the bidder enclosed and sealed in an appropriate cover addressed to the following address should be sent by registered post or could be deposited in the **appropriate tender box placed at General Sir John Kotelawala Defence University, Kandawala Estate, Ratmalana** (at the Main Entrance of General Sir John Kotelawala Defence University) on or before the time & date specified for the closing of tender. **The tender reference number, date & time of closing tender should be indicated & underlined at the top left corner of the envelop.**

Tender Ref No :

Closing Date & Time :

The Chairman,
Department Procurement Committee,
General Sir John Kotelawala Defence University,
Kandawala Estate, Ratmalana,
Sri Lanka.

7. The Bid/s must be submitted in the attached schedule of prices in Annex "A" as applicable. However, bidders could use similar formats prepared with their own letter heads with all the details mentioned therein and submit in **three copies along with duly signed copy of a General Conditions of tender.** The Bid/s must contain **Technical Literature, Pamphlets, Drawings and Quality Standard Certificate etc** necessary to determine characteristics of items offered and in case of Machinery/Vehicles & Equipment, servicing and workshop data/after sales service, back up facilities or any other facilities provided by the supplier.

8. **SUBMISSION OF SAMPLES/PAYMENT OF TESTING CHARGES.**

When it is required to submit samples, **every offer** must be accompanied with pre - marked samples. The marking of samples **indicating the Bidder & Offer number** must be done and the samples must be handed over to the officer at same place where tender box is placed **on or before the closing date & time of the Bid.** Samples submitted after closing time of the Bid will be rejected. The documents such as Air Way Bills etc, will not be accepted in place of samples. When the testing charges are required to be paid, bidders shall pay testing charges separately **for all offers** indicated in their bid/s.

(1) **Samples.** Please submit samples.

(2) **Testing Charges.** A sum of Rs. **per offer** must be paid to the Bursar of KDU, prior to the submission of bid and a copy of the receipt must be annexed to the bid. It is the responsibility of bidder to inform the Cashier of the Account Office to note the tender number on the receipt issued for such payments.

8. **BID OPENING.** All duly received bids **will be opened immediately after the scheduled closing time of Bids at the same venue.** Bidders or their accredited agents could be present at the time of opening of bids.

9. **PRICES.**

For locally delivered items (including locally manufactured items & foreign items imported by the bidders) price must be quoted in Sri Lankan Rupees, inclusive of all charges for delivery of items to General Sir John Kotelawala Defence University Ratmalana, Faculty of Allied Health Science (FAHS) Werahera and University Hospital Werahera or Southern Campus Sooriyawewa. **Unit price, VAT and Total price should be clearly indicated in schedule in Annex "A".** Other than VAT, all other type of taxes (eg : NBT, BTT, etc.) should not be indicated separately and should be included in unit price.

10. **RESTRICTED TENDERS.**

Invitation to Bids are circulated among the registered suppliers with Ministry of Defence (MOD), only bids submitted by registered suppliers will be allowed for consideration. However, Chairman, Department Procurement Committee reserves the right to invite the bids from multiple combinations of Procurement Methods as stipulated in Chapter III of the Government Procurement Guideline, 2006 to ensure highest competitiveness.

11. **PERFORMANCE BOND/GUARANTEE.**

A successful bidder shall furnish a Performance Bond/Guarantee in the form of "On Demand" & "Unconditional" Bank/Insurance Guarantee for a sum equivalent to 10% of the contract value for every contract that exceeds Rs. 2,000,000.00 or equivalent amount in foreign currency through a recognized Commercial Bank registered in Sri Lanka or through an Insurance Company authorized by the Insurance Board of Sri Lanka to issue such Performance Guarantee for this purpose, **within two weeks from the date of notification of award.** The proceeds of the Performance Bond/Guarantee shall be payable to the Vice Chancellor of the General Sir John Kotelawala Defence University as compensation for any loss resulting from the supplier's failure to complete his performance obligations under the contract. If the contracted supplier fails to deliver the items on time or fails to complete the works as per the agreed contract, **THE TOTAL VALUE OF THE PERFORMANCE BOND/GUARANTEE** will be forfeited. If only partial delivery is made during the agreed contract period, the corresponding value percentage of undelivered quantity from the Performance Bond/Guarantee will be forfeited.

12. **SIGNING OF CONTRACT.**

The notification of award will be transmitted to the successful bidder by post, by fax or e-mail. This notification constitutes the formation of the contract. The successful bidder should submit his written acceptance for the award and performance bond / guarantee (For awards over Rs. 500,000.00 without VAT) within 14 days of receipt of such notification. Upon acceptance of the award and furnishing of the Performance Bond/Guarantee, the successful bidder will have to enter into a formal contract with the Vice Chancellor of the General Sir John Kotelawala Defence University by signing the Contract.

13. **DELIVERY.**

Preference will be given for early delivery. In case of bulk supplies for locally manufactured items, the delivery of **total quantity must be completed within 120 days of signing of contract,** unless mutually agreed for extended delivery period with General Sir John Kotelawala Defence University. **The bidder/s must indicate the proposed delivery schedule in Annex "D".** In the event of placing a purchase order with the successful bidder, the total quantity so ordered must be supplied as one consignment unless part deliveries are agreed upon in the contract. The deliveries not made as per agreed delivery schedule will be considered as bad performances by the suppliers and **no extended delivery period will be authorized.** Under extreme unavoidable conditions too, the Chairman, Department Procurement Committee (Vice Chancellor of the General Sir John Kotelawala Defence University) reserves the right to grant or refuse delivery period extensions only within the current financial year with or without liquidated claim for delayed deliveries and that decision will be final.

14. **LIQUIDATED DAMAGES.**

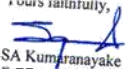
In case of delivery period extensions requested by the successful bidder, a sum equivalent to 1% of the total value of the delayed supply per delay of one week or part thereof may be deducted from the payment due to the supplier from the General Sir John Kotelawala Defence University as liquidated damages up to the maximum limit of 12% of the total value of delayed supplies.

15. **PAYMENT TERMS FOR LOCALLY DELIVERED ITEMS.**

Payment will be made after acceptance of items which should be subjected to a pre-acceptance inspection/testing by General Sir John Kotelawala Defence University authorities. The delivery made to the General Sir John Kotelawala Defence University should not be considered as quantities taken over by General Sir John Kotelawala Defence University until items are properly accepted after pre-acceptance inspection. Any item that does not conform to the specifications or already approved sample will be rejected & it is the responsibility of the supplier to remove them from General Sir John Kotelawala Defence University stores/premises within 07 working days of such intimation (either verbal or written) at his own cost and replace them with items conforming to specification within one month of such rejection. The bidder shall allow approximately 60-90 days' period of credit from the date of acceptance of items for Account Office, General Sir John Kotelawala Defence University to obtain liquid cash from General Treasury & release the payment.

16. **RIGHTS OF THE PROCUREMENT COMMITTEE.**

The Department Procurement Committee reserve the right to accept or reject whole or part of this tender and their decision will be final. The successful bidders will be notified. Information with regard to rejected or unsuccessful bids will not be communicated.

Thanking You,
Yours faithfully,

SA Kumaranayake
For Vice Chancellor
General Sir John Kotelawala Defence University

I/We agree to abide by the conditions of tender and undertake to supply the items as per delivery schedule mentioned in the contract, in the event of an order been placed with me/my firm/company as a result of this tender.

..... Signature

..... Name of Signatory

.....Name of the Company/Bidder

Date :-

Company seal

SCHEDULE OF PRICES FOR LOCALLY DELIVERED ITEMS

S/N	ITEMS	DENO	QTY	PRICE EACH SLRS	TOTAL PRICE SLRS
	<u>PURCHASE OF LABORATORY EQUIPMENT FOR DEPARTMENT OF BASIC SCIENCE LAB</u>				
01	ELISA reader	No's	01		
02	ELISA washer	No's	01		
03	Water bath(24L)	No's	01		
04	Magnetic stirrer with hot plate	No's	01		
05	Analytical Balance	No's	01		
06	Vortex Mixer	No's	02		
07	Orbital Shaker	No's	01		
08	Incubator (200L)	No's	01		
09	Olympus C x 23 Binocular compound light Microscope	No's	03		
10	Laptop	No's	01		
11	12 channel, 30-300 uL, variable volume micropipette	No's	01		
12	Rechargeable Pipette Controller	No's	01		
13	1-10 ml, micropipette	No's	01		
14	UV Chamber	No's	01		
15	Bench – Top pH Meter	No's	01		
16	Hot air oven	No's	01		
17	Micro plate shaker	No's	01		
18	Pipet Stand	No's	01		
19	Micropipette (10-100 uL)	No's	01		
20	ECG Machine	No's	01		
21	Histology Slide Box	No's	01		
22	Kirby-Bauer disk diffusion machine	No's	01		
23	Multi Parameter Patient Monitor	No's	01		
24	Bench top High Speed Centrifuge	No's	01		
	<i>Attached the Specification</i>				
	TOTAL				
	DISCOUNT				
	TOTAL(AFTER DISCOUNT)				
	VAT %				
	GRAND TOTAL				

(A) OTHER DETAILS

- (i) DELIVERY PERIOD -
- (ii) MAKE & MODEL -
- (iii) VALIDITY PERIOD -
- (iv) WARRANTY PERIOD -
- (v) PAYMENT TERMS - **CREDIT**
- (vi) COUNTRY OF ORIGIN -
- (vii) DISCOUNT IF ANY -
- (viii) ANY OTHER TAXES -

(B) VAT DETAILS

- **VALUE ADDED TAX PERMANENT REGISTRATION CERTIFICATE / VAT EXEMPTION LETTER ISSUED BY DEPARTMENT OF INLAND REVENUE TO BE ATTACHED**

(C) PLACE OF DELIVERY

- ITEMS TO BE DELIVERED TO THE “GENERAL SIR JOHN KOTELAWALA DEFENCE UNIVERSITY, KANDAWALA STATE, RATMALANA ALONG WITH THE COPY OF ORDER AND RELEVANT INVOICE.

(D) Any queries / information with regard to this procurement / tender could be obtained from Officer Commanding Logistics Services office at General Sir John Kotelawala Defence University through e-mail ocls@kdu.ac.lk and by telephone number 0112622504, OCLS – 0710219303 , DIT – 0710219237 during working hours.

NOTE: UNIT PRICE AND TOTAL PRICE ARE TO BE INDICATED CLEARLY IN THE TENDER, IF NOT QUOTATION WILL BE REJECTED.

SUPPLIER NAME -
ADDRESS -
CONTACT NUMBER -
E MAIL ADRESS -




(E) Bid Reference: KDU/PRO/CAP/66/2022



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DATE

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Department of Basic Sciences
Faculty of Allied Health Sciences
Specifications of the Lab Equipment


Sr No.	Item Name	Specification	Image	Qty.
1	ELISA reader	<ul style="list-style-type: none"> • Should be fully automatic, able to support all plate formats U bottom, V bottom and flat bottom 96-well micro plates. • PC based system. • Optical systems: LED lamp/ UV Xenon flash lamp. • Detection: Absorbance based. • Reading Time: <15 Seconds for 96-wells. • Wavelength range: 200nm to 999nm or more. • Wavelength selection should be double monochromatic with 1nm increment • System should have capability to do qualitative, quantitative, kinetics with any formulae including validation transformation, and factors and floating cut off. • Absorbance Range: 0- 4 OD • Resolution: 0.001 Abs. • Accuracy: 1% +/- 0.010 OD • Repeatability: 0.5% + -0.005 OD • System should perform self-check before every measurement • Power requirements: 220V-50/60Hz • PC Requirements (All in one PC): Intel core i7 processor, 4 GB RAM, 2 GB graphic, 1 TB hard disc, Full HD LED monitor 17", DVD writer, Wi-Fi, Wireless keyboard, and mouse, 64 bit and latest version of Microsoft Window, with MS office licensed, Laser Printer (>20pages/min.) >5000pages/refilling of cartridge • Inbuilt shaking mode. <p>PC Software packages (windows @ compatible) for on board data analysis compatible) for on board data analysis.</p>		01
2	ELISA WASHER	<ul style="list-style-type: none"> • Fully automatic plate washer. • Programmable. • Alarm for monitoring the overflow and wash solution. • Dispensing and aspirating needles should be 		01

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3	Water bath (24L)	<ul style="list-style-type: none"> • should have digital display and selection of temperature • should have Low level water sensor • should have Integral drain • should have Supplied with robust polycarbonate lid • Tank :High grade SS tank • Capacity 24L • Temperature range Ambient +5°C to 99.9°C • Temperature accuracy: $\pm 0.2^{\circ} C$ • Internal dimensions (w x d x h),mm 300 x 150 x 200 • Overall dimensions (w x d x h), mm 335 x 230 x 280 • Net Weight, kg 6.5kg • Heater Power 500W • Electrical supply 230V, 50Hz, 500W • Electrical supply 230V, 50Hz • IP Rating 31 • Temperature control : Digital PID control • Timer : 0.1 Hour to 99.9 Hours & continuous • Safety protection : User settable and fixed thermal cut-out • Display : Digital display of temperature • Alarm : Low level water alarm, safety shut down audible/visual alarm • Operating voltage : 230 \pm10VAC, 50 Hz. • Tank design for easy cleaning and draining • Steel holder for tubes (1.5/2 ml, 5ml, 15 ml) and Flasks (50, 100 & 250 ml) • Comprehensive warranty for two years <p>After Sale, Service should be available promptly.</p>		01
4	Magnetic stirrer with Hot plate	<ul style="list-style-type: none"> • Maximum stirring speed-1200 rpm with stepless speed control and good speed stability • Heating Capacity - 600W • Hotplate Size -175mm dia. • Supply – 220/240V,50Hz, A.C • Hotplate-Should be chemically resistant to acid and alkali • Top Plate Material – Stainless steel • Stirring Unit – Should be enclosed so that corrosive fumes do not enter it. • Controls for both hotplate and stirrer should be provided with suitable indicators. • Necessary electrical cables should be provided. • Warranty – 1 year 		01



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 Faculty of Allied Health
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5	Analytical Balance	<ul style="list-style-type: none">• It should be an analytical balance to use in general laboratory applications such as chemical weighing• Capacity should be 220g• Minimum load should be 10 mg• Readability should be 0.1mg• Tare range should be in full capacity• Repeatability should be 0.1mg while linearity is ± 0.2mg• Stabilization time should be ≤ 2 Seconds• Pan size should be not less than 100 mm• The balance should be featured with a multiple line LCD Backlit display• It should feature with functions such as Part counting, dosing, check weighing, statistics, etc. to use according to future requirements• The balance precision and the measurement accuracy should be assured by automatic internal calibration, which analyses temperature changes and time flow• Balance should be featured with RS232 and USB communication interfaces to transfer data to a PC according to GLP• Information system should be based on databases, which allows several users to work with several product databases those can be subject to further analysis• The balance should have a memory function to store at least 10000 weighments• The housing should have been made of plastic, and the pan is made of stainless steel.• Documentation• Manufacture product catalogs with requested information should be supplied• Manufacture authorization for the bidder to represent the given brand• User reference list should be attached <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>	01 


6	Vortex Mixer	<ul style="list-style-type: none"> • It should have a polymer housing to ensure a optimum resistance to chemicals • There shall be Excellent stability with alloy base • Large, anti-slip rubber feet will ensure staying in required position • Orbital diameter should be approximately 5 mm • Speed range should be up to 2800 rpm with soft start • Speed setting should be analog while speed control is electronic • It should have circular movement • Operating modes with Infrared sensor and continuous • Protection rating should be IP42 • It should include the Mixing cup head as standard accessory • Documentation • Manufacture product catalogs with requested information should be supplied • Manufacture authorization for the bidder to represent the given brand • User reference list should be attached <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediate</p>		01


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7	Orbital Shaker	<ul style="list-style-type: none"> • It should have a drive mechanism and counterbalance that provide vibration free high speeds even under heavy or imbalanced loads. • Speed range: Approx. 50 – 380 rpm • Time setting is up to 175 minutes or continuous operation • Orbital diameter shall be approx. 25 mm • Load at 100 rpm- At least 25 Kg • It should have a LED display for speed • There shall be 130rpm fixed speed facility • The shaker platform should rotate on six permanently lubricated, sealed ball bearings • The machine should have four cushioned feet that prevent creeping • System shall be supplied with plat form which can hold minimum 11 nos. of 250ml conical flasks • Documentation • Manufacture product catalogs with requested information should be supplied • Manufacture authorization for the bidder to represent the given brand • User reference list should be attached <p>Bidder should have good aftersales facility with trained technicians and parts available locally to carry out any service/ repair immediately</p>		01
8	Incubator (200L)	<ul style="list-style-type: none"> • Double walled construction with complete inner chamber made of Corrosion resistant stainless steel (AISI 430) • Outer chamber should be of steel sheet finished with powder coated paint Insulation to maintain desired temperature • Inner glass door • Inner chamber should be fabricated with ribs for adjusting shelves to convenient height and shelves to be supplied • Shelves should be made of polished stainless steel sheet as per chamber • Capacity _ 150- 200 liters • Temperature should be thermostatically controlled • with range 1) $\pm 2^{\circ}$ C Ambient to 70° C and 2) 5° C to 50° C • Over-Temperature Cut-Off with audio/ visual alarm 		01


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		<ul style="list-style-type: none"> • Low Temperature Warning alarm • Air ventilators to be provided on both side • The equipment should be provide with microprocessor controlled digital display • Temperature homogeneity between top and bottom shelves should be maintained by forced circulation • Certificate from a ISO 17025 accredited lab for 3 component • The supplier will have to carry out successful Installation at the laboratory premises (where ever the system has to be installed) and provide on-site comprehensive training for a minimum of two scientific personnel operating the system till customer satisfaction • Should be FDA/CE/BIS approved product. • Manufacturer and Supplier should have ISO 13485 certification under ISO 9001 for quality standards. • Electrical safety conforms to the standards for electrical safety IEC 60601- General Requirements (or equivalent BIS Standard) • Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety • Must be ISO certified for quality • Contact details of manufacturer, supplier and local service agent to be provided; Any Contract (AMC/CMC/adhoc) to be declared by the • Any warning signs would be adequately displayed • Warranted for 2 years after satisfactory installation and working excluding consumable parts and accessories. • List of all spares and accessories (including minor) with part numbers and price, required for maintenance and repairs in future after guarantee/warranty period should be attached; • User, technical and maintenance manuals to be supplied in English language along with machine diagrams; • List of equipment and procedures required for local calibration and routine maintenance; • Service and operation manuals (original and copy) to be provided; • Advanced maintenance tasks documentation; • Certificate of calibration and inspection 		
9	Olympus Cx23 Binocular compound light Microscope	<ul style="list-style-type: none"> • Infinity-corrected Plan Achromat objectives (4x, 10x, 40x, 100x oil) • 10X F.N. 18 eyepieces • Anti-fungus treatment helps protect optical parts even in high humidity work conditions • Ultra-smooth, quadruple revolving nosepiece • Fixed Abbe condenser N.A. 1.25, aperture stop position for each objective • LED illumination. The built-in aspherical collector lens • Compact design with ergonomic grip for easy portability and storage in a typical classroom cabinet • Built-in right-hand stage with rackless design, low positioned X, Y controls 		03

		<ul style="list-style-type: none"> • Student proof – The eyepieces, objectives, and condenser are all factory attached to the microscope body 		
10	Laptop for Lab use	<ul style="list-style-type: none"> • Type: Laptop • Generation: 11th Generation • Processor: 11th Generation Intel(R) Core(TM) i3-1115G4 Processor (6MB • Graphic: Intel(R) UHD Graphics with shared graphics memory • Storage: 1TB 5400 rpm 2.5" SATA Hard Drive • Memory: 4GB RAM, 4Gx1, DDR4, 2666MHz • Memory Slots: Two SoDIMM slots maximum upto 16GB • Card Reader: 1 microSD card reader • Optical Drive: No DVD RW • Display - Panel Size: 15.6-inch • Display – Resolution: FHD (1920 x 1080) Anti-glare • Display - Panel Tech: LED Backlight Non-Touch Narrow Border WVA Display • Display - Anti Glare: Yes • Keyboard: English International Non-Backlit Keyboard • Web Cam: Integrated RGB HD Webcam 720p (1280x720) @ 30fps • Wi-Fi: 802.11ac 2x2 WiFi and Bluetooth • Bluetooth: Yes • Battery: 3-Cell Battery, 42Whr (Integrated) • Power Adapter: 45 Watt AC Adapter • Operating System: Genuine Windows 10 Home • Software: McAfee 30 days trial & 15 month subscription, Microsoft Office • DELL Cinema: Dell Cinema Color • Dell Mobile Connect: Allows complete wireless integration between your Dell PC & smartphone • Additional Accessories: Dell Essential Backpack 		01

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11	12 channel, 30-300 μ L, variable volume micropipette	<ul style="list-style-type: none"> • Operating mode- manual • Pipetting type- Air-cushion • Ultra-light in weight • Spring loaded tip cone for minimal tip attachment forces, • SOFT eject- low tip ejection force. • Fully Auto cleavable • Large 4-digit volume display • Load multi-channel tips quickly and securely without a need for rocking. • Extremely consistent sample pickup across all channels 		02
12	Rechargeable Pipette Controller	<ul style="list-style-type: none"> • Pipette Types-- Compatible with most of the plastic and glass pipettes from 0.1-100ml. • Battery Protection-- Special circuitry prevents overcharging of the battery and allows the pipette filler to be charged or partially. More than 8 hours of intermittent use is typical when fully charged. • Speed Adjustable-- The automatic pipettor can easily adjust the speed through a speed adjustment wheel. At the maximum motor speed, the pipette filler is able to fill a 25ml liquid in 7 seconds. • Hydrophobic 0.45μm Filter-- The filter protects the pipette controller from accidental over-aspiration. An 		01



		<p>additional replacement filter will be provided in each package.</p> <ul style="list-style-type: none">Specifications-- Filling range: 0.1-100ml Aspiration speed : 25ml<7s Dispensing speed: Motor/Gravity Battery: Lithium-ion Charging time: 2-3 hours Weight: 200g		
13	1-10 ml, micropipette	<ul style="list-style-type: none">Volume adjustment: only a few turns to reach your desired volumeControl button: very low operating force, color indicates pipette volume, positioned for perfect ergonomicsEjector: very low operating force, positioned for perfect ergonomicsSecondary adjustment display and opening: adjust your pipette to a liquid very different than water		01



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14	UV Chamber	<ul style="list-style-type: none"> • Interior chamber: 68 x 48 x 25 cm • Sliding sample carrier: 60 x 40 cm • Dimensions: 77 x 62 x 64 cm • Weight about: 50 kg • Power consumption: 300 W • Mains : 110-230 VAC, 3 A, • Number of lamps: 20 • Sample temperature: 25 °C +/- 5°C • spectral ranges : 1 standard, 2-4 optional • Irradiance: UVA8 mW/cm² • Irradiance : UVA+8 mW/cm² • Irradiance : UVB2.4 mW/cm² • Irradiance: UVC10 mW/cm² • Illuminance: D6520000 lux • Lamp life time: up to 10000 h 		01
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15	Bench-Top pH Meter	<ul style="list-style-type: none"> • Automatic temperature compensation • Automatic ranging • Automatic buffer recognition • Digital and analog outputs • Min/Max and 99 data points • Data Hold • 5 calibration points • Electrode status indication • Operates on AC voltage (no batteries) • Working pH Range 0 – 14 Ph • pH resolution ± 0.01 pH • Mv • Range 0 - ± 1999 • Accuracy ± 1 mV • Resolution 1 mV • Temperature Compensation -0 to 100 °C with ATC • Temperature Range -10 to +105°C • Temperature Resolution 0.1°C • Temperature Accuracy ± 0.5°C • ATC range 0 to 100° • Should have 3 stage calibration with auto buffer recognition • NIST traceable buffer set 500 ml each (pH 4.0, 7.0 & 9.0). • Calibration reminder interval (1 to 999hrs) • Temperature Compensation –Automatic • Data storage facility and record maximum and minimum value. 		01
16	Hot air oven	<ul style="list-style-type: none"> • Capacity 250 Litre. • Temp range: +5°C to 200°C. • Control accuracy: ± 0.5°C. • Uniformity: ± 2.0 at 100.0°C • Minimum 3 No. of Shelves with height adjustable in 25mm steps. • Glass window in-built into the door for easy viewing of samples. <ul style="list-style-type: none"> • Automatic cut off of heater & blower when door opened. • Digital PID temperature controller with timer, alarms and auto tuning. • Aero dynamic internal design for achieving horizontal air circulation. • Solid and plain bottom without electricals. • Outer body made of G.I Epoxy Coated • Inner body made of Stainless steel with clear bottom • CE certified. • Warranty period (minimum 1 year) to be mentioned. • AMC charges to be indicated. 		01

17	Pipet Stand	<ul style="list-style-type: none"> • Accomodates six pipettes • Sturdy crossbar structure with slot for each pipette for secure storage • Suitable for both single channel and multichannel models • Description-F-Stand, Linear Stand, white • Holds-Manual Pipettes (6) 		01
18	Microplate shaker	<ul style="list-style-type: none"> • Digital display of Speed and Time • Speed range: 150 – 1200 rpm • Precise speed control: • $\pm 1\%$ of set speed up to 299rpm • $\pm 2\%$ 300 to 1200rpm • Orbit Diameter: 2.5mm • Max load up to 4 kg • Timer mode: up to 99h 59min • Optional large platform applied for 6 microplates • Optional tube racks applied for 1.5ml, 15ml and 50ml tubes 		01

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19	Micropipette (10-100 μ L)	<ul style="list-style-type: none">• Autoclavable single channel 10-100 μL fully autoclavable,• UV resistance• Universal tip compatibility• Adjustable tip ejector• Volume adjustment using both pushbutton and thumbwheel.• Volume lock• Finger rest• Continuous volume adjustment• Factory calibrated• Calibration of the pipette will be performed annually free of charge		01
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General Sir John Kote**

Sr No	Item	Specifications	Image	Qty.
20	ECG Machine	<p>Specification of 12-Lead ECG Machine The equipment supplied should be compact, sturdy, easy to use and should have the following features ECG Acquisition : Simultaneous 12 lead acquisition (standard) with automatic injection of cal signal and pacemaker detection. Frequency Response : 0.05-150Hz within 3dB Time constant : >3 sec Input Impedance : >50M Ohms Input Current : <50 nA Sensitivity : 1/4, 1/2, 1, 2 cm/mV automatic and manually adjusted. CMRR : >100dB A to D conversion : 24 bit Sampling frequency : 1000 per sec./channel Filters : Line frequency, base line and muscle filters Safety : IEC 60601-1, IEC-60601-2-25, Class I, Type CF ECG Recording : 3/6/12-Channels print format of ECG waveforms with measurement table of all 12 leads, average complexes, marking and interpretation statements. Mode of Operations : Automatic and manual mode of operations Printing Process : High resolution and high speed thermal print head. Paper Speed : 5/12.5/25/50 mm/s Patient Input : Fully floating and isolated, defibrillation protected Analysis : RR Trend, interpretation, arrhythmia analysis Storage : Built in memory to store more than 800 ECG events in PDF format, which can be retrieved latter on LCD screen or printed on printer. Interface : a) PC connectivity to transfer the data in PFD with required accessories and software. b) Direct connection to any USB printer c) USB port to transfer data on pen drive in PDF format Display : 8" colour, TFT LCD with LED graphics and touch screen Display format :</p>		01

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Head of the Department
Department of Basic
Faculty of Allied Health
General Sir John Kotelawala

a) 3/6/12 lead real time ECG on LCD screen,
 b) Full print preview before printing
Indication : Mains/ standby, low battery, selected lead group, loose electrode, paper tray empty, filter status.
Report Printing : 3/6/12 lead ECG, Average/RR
 Trend/Arrhythmia/Stress/Tabular report on a one page A4 Size Z-fold paper
Standardization : self maintenance program for diagnosis of faults and built-in standard ECG waveform for calibration and functional checking.
Accessories : ECG cable-10 Lead IEC, Standard accessories required for machine.
Power Requirement :
Mains : 230 V(+/- 10%), 50 Hz.
Battery : Ni-MH rechargeable for at least 2 hrs of normal use with built in Battery charger
Standards:
 Should be USFDA, European CE approved product – certificate should be attached with offer
Supplier: quotation from only sole manufacturer or its authorized dealer will accepted.
Warrantee: 2 years onsite comprehensive
 Post Warrantee:
 The supplier must ensure the service of equipment at BARC HOSPITAL, and supply of spare parts for a period of at least 5 years.
Service Manuals:
 The supplier must ensure the supply of one set of service manuals failing which offer will not be considered.

21 Histology Slide Box

Microscope histology & embryo prepared slides in various colours and material, specimen from nature, stained specially, characteristics of the cell clear and easy to find



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22

Kirby-Bauer disk diffusion machine

Description: Oxoid Antimicrobial Susceptibility Disc Dispenser
For Use with (Equipment): 90mm diameter plates
No. of Places: 6 Oxoid Disc Cartridges
Product Type: Antimicrobial Susceptibility Disc Dispenser
Certifications/ Compliance: For use only with Oxoid Antimicrobial Susceptibility Discs
Packaging: 1 Dispenser/Pk.
Unit Size: Each



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AS Head of the Department of Faculty of Allied Health Sciences John Koy

23

Multi
Parameter
Patient
Monitor

Parameters: NIBP
Screen Size: 12
Display Type: LCD
Power Source: Electricity
Voltage: 220V
Suitable for: Adult, Pediatric, Neonatal, Infant
Measurement Site: Upper Arm
Lead Selections: aVF
Features: Spo2, NIBP, Pulse Rate, Respiration, ECG & Temp
Resolution: High Resolution
Pixel Pitch: 800x480

This Five Parameter Monitor (5 Para) is conventional equipment that finds its application in Arrhythmia analysis and S-T segment analysis ensuring high level of accuracy. This ensures the ECG waveforms of 7-leads display on the same screen. Multipara Patient Monitor suitable for adult, paediatric and neonatal patient this equipment is net-workable with central monitoring system.

Features:
 High resolution 12.1" color TFT display

- Lightweight, compact and portable
- ECG, SPO2, NIBP, RESP, 2-TEMP PR
- 32 second full disclosure waveform review
- 500 NIBP measurement data can be storage and recall
- Data and waveforms color be adjustable
- Optional 2-IBP, ETCO2, and thermal printer
- Built-in rechargeable lithium battery

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 Head of the De
 Department
 Faculty
 General Sir Juma Ko

		<ul style="list-style-type: none"> • ECG waveforms of 7-leads display on the same screen • 72 hours graphic and tabular trends of all parameters • 72 alarm events of all parameters recall • Arrhythmia analysis and S-T segment analysis <p>Specifications:</p> <ul style="list-style-type: none"> • Measurement range: 0-100% • Accuracy: ± 2 digit (70 - 100%); 0-69% unspecified • Display: 8.4" Colour TFT Display • Sweep Speed: 12.5 mm/s, 25 mm/s, 50 mm/s <p>Standard configuration:</p> <ul style="list-style-type: none"> • ECG, NIBP, SPO2 • Audible and visual alarms with adjustable alarm ranges • Net-workable with central monitoring system • Suitable for adult paediatric and neonatal patient • Basic parameters (ECG, SPO2, NIBP) in a durable case for bedside monitoring and transport monitoring • Powerful data management and storage capacity <p>NIBP:</p> <ul style="list-style-type: none"> • Operation models manual / automatic / STAT • Method oscillometry • Measurement unit mm Hg / K Pa selectable • Over pressure protection provided • Measurement types systolic, diastolic, mean <p>ECG:</p> <ul style="list-style-type: none"> • Alarm events recallable • S-T detection YES, Arrhythmia analysis available • Accuracy: ± 1 bpm or $\pm 1\%$, which is greater 	
24	Benchtop High Speed Centrifuge	<p>Max. Speed (RPM): 18000</p> <p>Max. RCF (x g): 23200</p> <p>Max. Capacity: 4*100 ml / 6*100 ml</p> <p>Ambient Temperature: +15 °C</p> <p>Speed Accuracy: ± 50 rpm</p> <p>Speed Control: 0-18000</p> <p>Set Speed (increments): 50rpm</p> <p>Timer range: 0-99 mins</p> <p>Set Time (increments for LCD): 1 second</p> <p>Set Time (increments for Digital): 1 min</p>	01



Head of the Dept
Department of Health
Faculty of Allied Health
General Sir John Kotelawala

SPECIMEN FORM OF BID SECURITY

By this Bond we (hereinafter called "the Bidder") and We (name of bank or insurance company) whose registered office is at (hereinafter called "the Surety") are held and firmly bound onto (hereinafter called the Authority") in the sum of for the payment of which sum the Bidder and the Surety bind themselves their successors and assigns jointly and severally by those presents.

Whereas the authority has invited the Tender and other persons to compete tenders in similar terms for the supply of and to submit the same for the consideration of the Authority, and the Bidder proposes to submit to the Authority a Bid (hereafter called "the Bid") in accordance with such invitation, the Bond shall provide security to the Authority that the Bidder will honour certain obligations to be undertaken by him in the Tender in accordance with the following conditions.

Now the Conditions of this Bond are:

- (a) That it shall remain in full force and effect until the earliest of
 - (i) (Date), being () days from (submission date), the date stipulated by the Authority for the submission of tenders, or any prolongation of such date above notified to the Authority by the Bidder and the Surety in writing.
 - (ii) In the event of acceptance of the Tender by the Authority, the date upon which the Bidder provides a performance security to the Authority in accordance with the terms of the contract thereby made between them, or
- (b) Subject to this Bond being in full force and effect, the Surety shall pay the full amount specified in this Bond upon receipt of first written demand form the Authority stating that.
 - (i) The Bidder has withdrawn his Tender during the validity of this Bond, or
 - (ii) The Bidder has failed to provide a performance security to the Authority in accordance with the terms of the tender within 14 days from receipt of intimation of award of the Tender.

No alteration in the terms of the Tender, nor any forbearance or forgiveness in or in respect of neither any matter or thing concerning the Tender on the part of the Authority, nor any objection from the bidder shall in any way release the Surety from any liability under this Bond.

The benefit of this Bond shall not be assignable by the Authority and upon its ceasing to be in full force and effect the Authority shall return the same to the Bidder.

This Bond shall be governed by the laws of Sri Lanka

I executed as a deed on this () day of () 20 ()

For and on behalf of the Bidder

Signed by -----

In the capacity of -----

and by -----

In the capacity of -----

Seal (where applicable)

For and on behalf of the Surety

Signed by -----

In the capacity of -----

and by -----

In the capacity of -----

Seal (where applicable)

DELIVERY SCHEDULE

(IT IS MANDATORY TO FILL THE FOLLOWING SCHEDULE BY THE BIDDER)

TENDER NO :

ITEM :

QTY :

DURATION	QTY
EX STOCK QTY (WITHIN 01 WEEK)	
01MONTH	
02 MONTHS	
03 MONTHS	
04 MONTHS	
TOTAL	

NAME OF THE BIDDER :

SIGNATURE OF BIDDER :

DATE :

COMPANY SEAL :