

ANNEX 1

BIOMEDICAL TOOLS

1. ECG Simulator

- All-in-one complete monitor testing 80 % smaller and 17 lbs/7.7 kilos lighter than predecessor technology
- Multifunction simulator tests ECG (including fetal ECG and arrhythmias), respiration, temperature, IBP, cardiac output, NIBP, SpO₂, and is capable of testing Rainbow multi-wavelength waveforms.
- 8-in-1 multifunction simulator tests ECG (including fetal ECG and arrhythmias), respiration, temperature, IBP, cardiac output, NIBP, SpO₂, and Rainbow multi-wavelength waveforms
- Stay-connected ECG posts for easy/secure ECG snap and lead connections
- Custom SpO₂ r-curve for accurate testing of the latest and future oximetry technologies
- Static pressure linearity testing
- Repeatable NIBP simulation (+/- 2 mmHg) for dynamic pressure repeatability testing
- Physiologically synchronized pulses across all parameters
- Barcode scanning and direct data capture and printing functionality
- Onboard, customizable patient pre-sets and auto sequences for fast/easy testing
- Multi-language user interface offers choice of language selection
- Integrated, easily-replaceable long-life battery
- Optional PC-interface software offers customizable procedures/checklists to replace bulky service manuals and automated data capture/storage*
- Temperature Operating-10 °C to 40 °C (50 °F to 104 °F) Storage -20 °C to +60 °C (-4 °F to 140 °F)
- Humidity-10 % to 90 % non-condensing
- Altitude 3,000 meters (9,843 ft)
- Dimensions (L x W x H) 14.5 cm x 30.2 cm x 8.6 cm (5.7 in x 11.9 in x 3.4 in)
- Display LCD colour display
- Communication-USB device upstream port-Mini-B connector for control by a computer USB host controller port
- Type A, 5 V output, 0.5 A max load. Connector for keyboard, barcode reader, and printer, Wireless
- Power- Lithium-ion rechargeable battery
- Battery charger 100 V to 240 V input, 15 V/2.0 A output. For best performance, the battery charger should be connected to a properly-grounded ac receptacle
- Battery life 9 hours (minimum), 100 NIBP cycles typical
- Weight 1.87 kg (4.2 lb)
- Safety standards-IEC/EN 61010-1 3rd Edition; Pollution degree 2 CAT None
- Certifications CE, CSA, C-TICK N10140, RoHS

- Electromagnetic compatibility (EMC) IEC 61326-1:2012

2. Regulated Power Supply (RPS)

- High efficiency, compact size, light weight and good reliability.
- This programmable DC power supply should have a standard USB interface on the back and supports the Modbus programming instruction set. Hardware list with programmable sequence output. Six groups of quick parameter storage features.
- variable DC regulated power supply can display the output current, voltage, and power in 4 digits. At the same time, the time can be displayed and the decimal point is automatically rounded up.
- Output voltage: 0-30V
- output current: 10A.
- Voltage resolution: 10mv;
- Current resolution: 1mA.
- This variable DC regulated power supply should have five powerful functions: overvoltage protection (OUP), overcurrent protection (OCP), overpower protection (OPP), overheat protection (OTP), and short-circuit protection.
- It has a protective function. With the automatic temperature control cooling fan, the cooling fan turns on automatically when the operating temperature exceeds 45 ° C.
- Multi-functions should be Front 5V 1.5A dual USB charging interface that can be charged and repaired.
- The one-key output on / off switch allows you to preset the voltage and current values when the output is off, which is convenient for operation. One key for the voltage stabilization and current stabilization switch to automatically lock the keyboard to prevent erroneous operation.
- Packing should be 1 * Programmable DC power supply; 1 * CD; 1 * Power cord; 1 * Clip cord; 1 * USB cable; 1 * Manual
- Safety standards-IEC/EN 61010-1 3rd Edition.
- Certifications-CE, CSA, C-TICK N10140, RoHS

3. Bench Vice

- Jaw width: 4-1/2" (11.4CM) x Jaw opening: 3" (7.6CM) x Throat depth: 2.4" (6.1CM)
- Holds 0. 6" D to 1. 85" D pipes and tubes (1. 5CM x 4. 7CM)
- 30, 000 PSI cast iron construction, blue power coat finish
- Anvil: 1. 75" x 2" (4. 4CM x 5. 1CM)
- Screw Diameter: 0. 6" (1. 5CM), Handle Diameter: 0. 4" (1CM) x Handle Length 6" (15. 2CM)
- 240-Degree Swivel base allows rotating the vise for versatility
- Swivel base features (4) mounting tabs
- Product Dimensions and Shipping weight: 9. 5" x 4. 5" x 5. 75" (3. 7CM x 1. 8CM x 2. 3CM) and 10. 7 pounds (4. 9Kgs)
- Installation hardware not included: (4) bolts 3/8" x table thickness
- Safety standards-IEC/EN/SI

4. Clamp Meter

- Digital clamp meter measures AC current to 400-amp, AC and DC voltage to 600V, and resistance to 4 kilohms
- True RMS sensing meter provides accurate readings when measuring linear or non-linear loads, regardless of waveform
- Jaw opening measures current in a conductor up to 30mm without touching or interrupting the circuit
- Audible continuity sensor confirms that the circuit conducts electricity
- Meets IEC safety standard 61010-1, and is rated for CAT IV installations to 300V and CAT III installations to 600V
- 400 A AC and DC current measurement
- Resistance measurement up to 40
- AC voltage make for the most accurate measurements on non-linear signals
- Temperature and capacitance measurement
- Frequency measurement

5. T Handle Screw Driver Set

- Ratchet And T Handle Included
- Soft Grip Handles
- Storage Case
- User friendly design to reduce strain on arm and wrist
- 52 Piece T Handle Ratchet Multi-Type Screwdriver Set with case is the ideal kit
- The set begins with a full-sized T handle ratchet drive handle that has forward and reverse ratcheting ability.
- The soft grip, TPR handle is ergonomically fitted to ensure maximum non slip grip for easy turning of screwdriver bits or sockets.
- The T Handle should have longer shaft for more torque when needed.
- The butt end of the handle also has a socket connector to which bits can be mounted.
- Once in use the T bar can then be used for added leverage for stuck or rusted nuts and bolts.
- The set is complete with 52 various bits and sockets and fits into the clear view storage case.

6. Precision Screwdriver Set

- 56pcs high-quality S2 screwdriver bits applicable to most modern Electronics 56 precision screwdriver bits include different sizes of Philips, Slotted, Security Torx, Hex, Penta lobe, Torx, Triangle, Y tri-wing, Posidrive, Square, U-Type to cover a wide range of different applications.
- Every driver bit is made of high-quality S2 steel with hardness up to 60HRC, S2 bit has a much longer lifetime than the bit made of chrome-vanadium steel. All bits are well made with strict quality control with high precision to make sure all your repairing work precisely and reliable.
- Magnetic screwdriver handle quick to install and easy to pick up screws. Magnet-holder makes all the bits can be kept in place tightly even inverted occasionally. Slim size makes the set an ideal pocket product. Press the button on the top, the internal box will automatically eject.
- Ergonomic Design and well-made handle with an anti-slip area and free-spinning cap could keep the screwdriver no shake when working, a mini magnetizer inside can provide magnetic for the bits at any time. The handle will not grind hands when long-lasting work. Precise enough for technician need, it's better to control by your finger for its rotatable end cap and anti-slip area.

7. TDS METER

- Monitor 3 parameters in water: Conductivity (TDS) level get a balanced feed, pH up and down, and temperature with lab-quality glass probe
- General uses include Dialysis, CSSD, and Laboratory
- This hydroponics meter should have ATC that provides consistent reading regardless of any fluctuations in temperature
- pH probe is a double junction
- Accuracy should be 0.1 pH, 0.1 EC, 1 CF, 50 PPM (PPM 500 TDS), 70 PPM (PPM 700), 1°C/2°F
- Conductivity scales include EC, PPM, and CF
- Replaceable probe
- Backlight Screen
- Should monitoring in water and soil; pH probe requires easy two-point calibration; Conductivity and temperature probes should come factory calibrated and to be ready to use
- Power Supply Input: 100-240 Vac, 50-60 Hz, 5 VA, 4 interchangeable plug types (USA, Euro, UK, NZ/AUS) Output: 24VDC 0.4amp
- Monitoring for medium to large reservoirs with alarm parameters and automated dosing (pumps sold separately)
- Should be Auto-off function, low battery indicator, units for temperature, AAA batteries, pH probe storage cap, and calibration solution, probe care kit is sold separately
- 5-Year Limited Warranty with proof of purchase (6-month warranty for probes)

8. ELECTRIC AIR BLOWER MACHINE

9. 10kVA Online UPS

- Micro Processor Controlled 10 kVA online UPS system with battery backup for 60 mins.
- Manufacturer's Certification: Should be an ISO 9000 and ISO 14001 certified company manufacturing UPS (Enclose Certificates).
- UPS Rating – **10 kVA**
- Input: 220V - 240V, 50Hz, Single Phase
- Output: 230VAC, 50Hz

- Ambient Temperature: 0- 40 °C
- Relative Humidity: 95%
- Backup: 60 Mins at Full-Load.
- UPS should have static & maintenance bypass with static switch.
- UPS should have a DC ground facility also.
- Display: LCD Display and LED indicators.
- Compatible batteries should be integrated with UPS.
- LCD Display for parameters like Input supply voltage, current, frequency, Output supply voltage, current, frequency, Bypass volt, current, frequency, ambient temperature, DC volt, inverter tune.
- LED Indicators for ON/OFF/Fault, status for Input supply/Rectifier/Battery/Inverter.
- Recovery time < 10 milliseconds.

Standards and Requirements:

- USFDA, CE and or ISO certifications or relevant standards certification.
- Minimum 5 numbers of output power cords (2x15A and 3x10A) should be supplied.

Additional Remarks or Requirements:

- Complete product details to be enclosed with the original brochure or catalogue (Soft or hard copy).
- Details of the standard accessories, additional accessories, optional items, consumables and minimum supplies to be stated clearly.