



بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِیْمِ



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## ANNEX 1

### SPECIFICATIONS

#### Adult ACLS Mannequin

Required Quantity 01

1. The material of mannequin should be of polyvinyl and silicone rubber, free from any hazardous material.
2. mannequin must be realistically sculpted, anatomically accurate and feel must be smooth/resilient/bony as relevant and suitable for simulation.
3. Head tilt, chin lift & open the airway maneuvers should be possible.
4. It should have carotid pulse check. Optional - Chest rigidity should be adjustable to three levels so that different chest resistances can be simulated during training time without dismantling mannequin
5. The manikin should have inbuilt/ separate mechanical monitoring instrument that gives instant feedback on ventilation volume, stomach inflation, chest compression depth measurement and wrong hand positions should be visible from both foot and head end
6. Defibrillation electrodes should be present so that user can be trained with all leading brands of defibrillators (defibrillation as well as pacing)
7. Manikin should be used as Intubation Trainer also, for teaching intubation techniques with Laryngoscopes, Endo-Tracheal Tube, and Laryngeal Mask Airway & Combi tube.
8. It should have IV arm helps to trained students insertion of cannulas & injection of medication. Optional - Mechanical pulse measurement & IO leg for intra osseous training
9. Detailed test report in which all BLS & ACLS performances on manikin can be registered and facility of debriefing should be available
10. Breathing sound & other minimum 6 basics sound like asthma, COPD, Coughing, Fast breathing, Inspiratory stridor & pulmonary edema can be simulated with ease also should have option of loading users own individual sound files onto the manikin and to create user desired training algorithms.
11. Both CPR & ECG Curves should be displayed on screen with minimum choice of 30 preloaded ECG rhythms, giving optimal Information at all times. With option to add user customizable ECG rhythms with broad range of arrhythmias
12. Representation of a realistic patient monitor with the following display options: 12 lead ECG, heart rate, blood pressure, oxygen saturation, capnography, values of which can be possible to amend per scenario.
13. Easy set-up of training module with any type of mobile, PAD laptop (iOS, Android, Windows), independent of any platform and license. Should create its own Wi - fi network and LAN connectivity.



14. Should have Control station and View/visualization station.
15. Can be wirelessly controlled
16. Possibility to create different scenarios like BLS with ventilation or CPR, ALS with defibrillation etc. with possibility for change in reference values for CPR and Ventilation in algorithms
17. Online adjustment of virtual vital parameters like SPO2, ETCO2 and BP
18. Should come with Hard carry case with wheels for easy transportation and training
19. Manufacturer's standard warranty with documents should be available.
20. Operators manual and Service manual should be provided.

**Required accessories and consumables:**

1. Each Manikin Should be supplied along with AMBU Bag & supraglottic Airway devices
2. Reusable IV arm skins
3. Reusable Preformed supraglottic airway device/ equivalent with sizes: - 2 & 3
4. Replaceable vein set
5. Laser Printer
6. Laptop 15 inches with latest configuration
7. TFT/LCD/LED screen 32-50 inches
8. Movable Trolley with drawers

**Standards Requirements:**

1. USFDA, CE and or ISO certifications or relevant standards certification.

**Standards Requirements:**

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



## **Adult BLS Mannequin**

Required Quantity 01

1. The material of mannequin should be of polyvinyl or silicone rubber, free from any hazardous materials.
2. The texture of the mannequin should Be as close to the feel of the baby/adult skin as relevant.
3. The Internal parts of the mannequin must be realistically sculpted, anatomically accurate and feel must be smooth/resilient/bony as relevant and suitable for simulation.
4. It should have features to demonstrate opening of airway, head tilt/chin tilt and jaw thrust techniques.
5. Adult CPR Mannequin should have disposable airways.
6. Adult CPR Mannequins should have removable, reusable faces.
7. Adult CPR mannequin should have an indicator which confirms correct chest compression technique.
8. It should have compression spring for consistent resistance.
9. Should be supplied with a transport box of size: 22X61x31 cm
10. Manufacturer's standard warranty with documents should be available.
11. Operators' manual and Service manual should be provided.

### **Required accessories and consumables:**

1. Devices for suction of nose and mouth.
2. Reusable mannequin faces
3. Reusable airways
4. Mannequin wipes
5. Rolls of free disposable barriers to prevent cross-contamination
6. Sets of replaceable skin & multi-vein set, sets of blood pack with tubing's and connector

### **Standards Requirements:**

1. USFDA, CE and or ISO certifications or relevant standards certification.

### **Additional Remarks or Requirements:**

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



## **New Born resuscitation Mannequin**

Required Quatity: 01

1. The material of mannequin should be of polyvinyl and silicone rubber, free from any hazardous material.
2. The texture of the mannequin should be close to the feel of the baby.
3. The Internal parts of the mannequin must be realistically sculpted, anatomically accurate and feel must be
  - a. smooth/resilient/bony as relevant and suitable for simulation.
4. Newborn mannequin should have features for training essential newborn care (ENBC) and newborn resuscitation.
5. The airway should be anatomically accurate, realistic airway.
6. Oral and nasal ET tube insertion should be possible.
7. Bilateral and unilateral chest rise and fall with positive-pressure ventilation should be possible.
8. Newborn Mannequin should facilitate effective bag and mask ventilation, chest must rise only with correct technique.
9. The newborn mannequin should include the following: Squeeze bulbs for simulation of cord pulsation, spontaneous breathing, auscultation of heart sound and cry.
10. The new born mannequin should demonstrate clearing of airways; perform suction; monitoring of ventilation and pulsation.
11. Should have moving head, flexible upper and lower limbs.
12. New born baby mannequin should weigh close to the normal newborn.
13. Manufacturer's standard warranty with documents should be available.
14. Operators manual and Service manual should be provided.

### **Required accessories and consumables:**

1. Devices for suction of nose and mouth.

### **Standards Requirements:**

1. USFDA, CE and or ISO certifications or relevant standards certification.

### **Additional Remarks or Requirements:**

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

