

BATAAN PENINSULA STATE UNIVERSITY						
Balanga City, Bataan						
OFFICIAL BIDDING FORM						
Item No.	QTY	Unit	SPECIFICATIONS	OFFER; (Brand)	Unit Cost	Total Cost
1	1	Lot	HIGH FIDELITY MATERNITY MANNEQUIN SIMULATOR			
			<p><b>Maternal</b></p> <ul style="list-style-type: none"><li>• Wireless and Tetherless and fully responsive even while being transported.</li><li>• Wireless control at distances of up to 300ft using Radio Frequency signals for more stable connection.</li><li>• Internal rechargeable battery provides up to 3 hrs. of tetherless operation.</li><li>• Supports continuous operation on AC power.</li><li>• Pneumatic and fluid reservoirs are housed inside the body.</li></ul> <p><b>Labor and Delivery</b></p> <ul style="list-style-type: none"><li>• Maternal and Fetus-Newborn wireless link capability.</li><li>• Automatic and fully programmable birthing mechanism simulates descent and cardinal movements.</li><li>• Precise labor scenario repeatability for competency-based training and assessment.</li><li>• Programmable normal, breech, shoulder dystocia, instrument-assisted delivery, and C- section.</li><li>• 9 Labor and Delivery SLEs.</li><li>• Facilitator’s Guidebook.</li><li>• Supports Leopold’s Maneuvers and external cephalic version.</li><li>• Epidural placement and needle detection; palpable anatomical landmarks and skin layers.</li><li>• Force sensors monitor traction applied to the fetus in real-time.</li><li>• Anatomic landmarks include bilateral ischial spines, coccyx, and pubic bone.</li><li>• Realistic birth canal with dilating cervix.</li><li>• Fetus rotates, dips, and rises during delivery.</li><li>• Palpable contractions.</li><li>• Programmable intrapartum bleeding.</li><li>• Supports McRoberts maneuvers.</li><li>• Supports Woods' screw, arm sweeps, and Lovset.</li><li>• Postpartum: palpable fundus with programmable uterine contractions,</li><li>• Uterine bleeding: manage uterine hemorrhage using medications or a balloon tamponade.</li><li>• Episiotomy repair inserts simulate human tissue that can be sutured closed repeatedly.</li></ul> <p><b>Neurological</b></p> <ul style="list-style-type: none"><li>• Programmable blinking, dilation, and eye response to light.</li><li>• Programmable duration and intensity of convulsions.</li><li>• Prerecorded responses.</li><li>• Wireless streaming voice: be the voice of the mannequin and listen to the participants' responses via a wireless headset.</li></ul> <p><b>Airway</b></p> <ul style="list-style-type: none"><li>• Program tongue edema and pharyngeal swelling.</li><li>• Multiple upper airway sounds synchronized with breathing.</li><li>• Supports nasal and oral intubation.</li><li>• Sensors detect depth of intubation.</li><li>• Supports Bag-Valve-Mask ventilation.</li><li>• Supports conventional airway adjuncts.</li></ul> <p><b>Breathing</b></p> <ul style="list-style-type: none"><li>• Automatic chest rise is synchronized with respiratory patterns</li><li>• Normal and abnormal breath sounds.</li><li>• Independent left or right lung sounds synchronized with breathing.</li><li>• Ventilation may be assisted using BVM, ETT, or LMA.</li><li>• Ventilations are measured and logged.</li></ul> <p><b>Cardiac</b></p> <ul style="list-style-type: none"><li>• Monitor rate and compression depth, no-flow time, ventilation rate, and excessive ventilation. The smart trainer features vocal cues and outputs performance reports.</li><li>• Chest compressions generate palpable blood pressure waveform and ECG artifacts.</li><li>• Normal and abnormal heart sounds.</li><li>• Heart sounds synchronized with ECG.</li></ul>			

- ECGs are generated in real time with physiologic variations.

Circulation

- Measure blood pressure by palpation or auscultation using real instruments.
- Korotkoff sounds audible between systolic and diastolic pressures.
- Oxygen saturation detected using real monitors.
- Bilateral carotid, radial, and brachial pulses synchronized with ECG.
- Pulse sites synchronized with BP and heart rate.
- Bilateral IV arms with fill/drain sites.
- SubQ and IM injection sites.
- Chest compressions are measured and logged.
- ECG monitoring using “real devices” without using any converters or boxes.
- Defibrillate, cardiovert, and pace using “real devices” without using any converters or boxes.C81

Virtual Patient and Toco Monitor

- Touchscreen patient monitor preloaded with vitals.
- Programmable uterine activity.
- Control frequency, duration, and intensity of contractions, resting tone, and decels.
- Program fetal heart rate and baseline variability.
- Control episodic, periodic, and variable changes.
- Generate FHR patterns at any time.
- Virtually monitor FHR via External Fetal Monitoring or the Fetal Spinal Electrode Mode.
- Review up to 2 hours of recorded fetal tracings.
- Save/print fetal tracings for debriefing.
- Interactive virtual patient monitor displays vital signs in real time.
- Customizable layout mimics real patient monitors.
- Display simulated ultrasounds, CT scans, lab results, x-rays.

Capabilities

- Advanced Life Support/Basic Life Support .
- Articulating full size adult .
- Birth canal with dilating cervix .
- BP using real cuffs.
- Breathing with multiple airway sounds .
- Circulation multiple heart sounds.
- Pulse sites.
- Computer control.
- Convulsions and tremors.
- Defibrillate, cardiovert and pace.
- Deliveries include vertex, instrumented, shoulder dystocia, breech, “C” section, prolapse and previa.
- Display ECG using REAL monitor.
- Display oxygen saturation using REAL oximeter.
- Dynamic perinatal monitor displays uterine activity and FHR ECGs (Virtual) generated in real time.
- Episiotomy repair.
- Fetus is fully articulating with fontanelles/sutures.
- Fetus delivered with precise, repeatable control.
- Fetal manipulations.
- Fetal force/torque/positioning graphed in real time Intubatable airway and IV arm.
- Maternal vital signs monitor.
- Post-partum hemorrhage/fundal massage.
- Preprogrammed scenarios, modify them, or create new ones Share images such as x-rays, CT scans, lab results.
- Streaming Audio.
- Training Guide with basic and advanced scenarios.
- Tetherless.
- Virtual oxygen saturation measurement.

Highlights

- UNI Software.
- Practice epidural procedures.
- Realistic fetal palpation with amniotic sac Pelvic landmarks.
- Contraction Stomach.
- C-section using real surgical instruments Lifelike birth canal.
- Realistic episiotomy repair.

- Streaming audio included.
- Perfect fit into stirrups.

Includes: 1 unit Newborn simulator

Features and Specifications

**\*\*Appearance and Anatomy\*\***

- Age: 40-week term newborn.
- Weight: 6 lbs. / 2.7 kg.
- Length: 20.75 in / 52.7 cm
- Smooth and supple full body skin
- Seamless trunk and limb joints.
- Realistic joint articulation: neck, shoulder, elbow, hip, and knee.
- Forearm pronation and supination.
- Lifelike umbilicus.
- Palpable landmarks including ribs and xiphoid process.
- Tetherless and Wireless Mobility.
- Tetherless and fully responsive even while being transported for team training.
- Internal rechargeable battery provides up to 4 hrs. of tetherless operation.
- Pneumatic and fluid reservoirs are housed inside the body.
- Maternal & Fetus-Newborn wireless link capability.

**\*\*Airway\*\***

- Head tilt, chin lift, jaw thrust.
- Realistic orotracheal and nasotracheal airway and visible vocal cords.
- Bag-valve-mask ventilation.
- Neck hyperextension and airway obstruction with event capture and logging.
- Intubation depth detection and logging.
- Programmable crying/grunting sounds.
- ETT, LMA, fiberoptic intubation.

**\*\*Breathing\*\***

- Spontaneous breathing.
- Real end-tidal CO2 capability.
- Variable respiratory rates and inspiratory/expiratory ratios.
- Visible chest rise with bag valve mask ventilation.
- Unilateral chest rise with right mainstem intubation.
- Lung ventilations are measured and logged.
- Programmable unilateral chest rise and fall.
- Unilateral lung sounds synchronized with respiratory rate.

**\*\*Cardiac\*\***

- Comprehensive ECG rhythm library.
- ECG monitoring using real devices.
- Real-time CPR performance monitor and trainer.
- Effective chest compressions generate palpable pulses and CPR activity.
- Healthy and abnormal heart sounds.
- Virtual pacing and defibrillation.

**\*\*Circulatory\*\***

- Visible central cyanosis with programmable intensity.
- Fontanelle, brachial, and umbilical pulses.
- Blood pressure-dependent pulses.
- Measure blood pressure using real modified BP cuff and Korotkoff sounds.
- Pre-ductal and post-ductal O2 saturation values simulated on patient monitor.
- Arterial/venous umbilical catheterization.

**\*\*Vascular Access\*\***

- Bilateral IV arms.
- IV access on the lower left leg.
- Umbilical vein and arteries support catheterization and infusion.
- Umbilical cutdown.
- Intraosseous access and infusion at right tibia.
- Bilateral anterolateral thigh intramuscular injection sites.

**\*\*Digestive\*\***

- Interchangeable female and male genitalia.

	<ul style="list-style-type: none"><li>• Urinary catheterization with urine output.</li><li>• Selectable bowel sounds.</li></ul> <p><b>**Additional Features**</b></p> <ul style="list-style-type: none"><li>• Seizures/Convulsions.</li><li>• 1-month neonate navel insert.</li><li>• Programmable muscle tone: bilateral or unilateral arm movement, reduced, and limp.</li><li>• Temperature sensor placement detection.</li></ul> <p><b>**Simulator Control Software**</b></p> <ul style="list-style-type: none"><li>• Interface design and controls are shared across the entire line of computer-controlled simulators.</li><li>• 3D patient visualization monitor.</li><li>• Create your own scenarios –add/edit.</li><li>• Includes 13 pre-programmed scenarios.</li><li>• Monitor rate and compression depth, no-flow time, rate, and excessive ventilation; smart trainer features vocal cues and outputs performance report.</li><li>• Generate and share simulated diagnostic lab results.</li><li>• Interactive questionnaire form designer.</li><li>• Track team and individual provider actions.</li><li>• Time-stamped event recording and reporting.</li><li>• Optional Automatic Mode responds to caregiver or instructor actions.</li><li>• Pharmacologic intervention, injury, or cardiac and respiratory events.</li><li>• No annual license fee.</li></ul> <p><b>Package Includes</b></p> <ul style="list-style-type: none"><li>• Newborn Patient Simulator.</li><li>• Control Tablet PC preloaded with software.</li><li>• 12” Touchscreen Tablet PC.</li><li>• Software License including 13 scenarios.</li><li>• RF Communications Module.</li><li>• Battery charger/Power supply.</li><li>• Receiving blanket, umbilical cords, tibia bone pack replacement lower arms.</li></ul> <p><b>**BP cuff, IV filling kit**</b></p> <ul style="list-style-type: none"><li>• Soft carrying case.</li><li>• User Manual.</li><li>• 1-year standard warranty.</li></ul> <p><b>*** See attached Additional Requirement/Technical Specifications</b></p>			
<b>*****Nothing Follows*****</b>				

**NOTE:**

1. All Entries must be typewritten
2. Delivery period within \_\_\_\_\_ calendar days
3. Warranty shall be for a period of six (6) months for supplies and materials, one (1) year for equipment from date of acceptance by the procuring entity.
4. Price validity shall be for a period of \_\_\_\_\_ calendar days
5. G-EPS Registration Certificate shall be attached upon submission of the quotation.
6. Bidders shall submit original brochures showing certifications of the product being offered.

After having carefully read and accepted your General conditions, I / We quote on the item / s at prices noted above.

\_\_\_\_\_  
Printed Name / Signature

\_\_\_\_\_  
Tel. No. / Cellphone no.

\_\_\_\_\_  
E-mail Address