



**SUPPLEMENTAL/BID BULLETIN NO. 2023-002**  
 March 23, 2023

**PROCUREMENT OF MEDICAL LABORATORY EQUIPMENT FOR NURSING  
 AND ALLIED HEALTH PROGRAMS**  
**(Reference No. 9562976)**

This Supplemental/Bid Bulletin No. 2023-002 is issued to modify or amend the items in the Bidding Documents for the above-mentioned project. This shall form an integral part of the Bidding Documents, viz:

REFERENCE	AMENDMENT/CHANGE/CLARIFICATION			
	FROM		TO	
a. Section I. Invitation to Bid (paragraph 2)	The CATANDUANES STATE UNIVERSITY now invites bids for the above Procurement Project. Delivery of the Goods is required <b>within forty-five (45) calendar days</b> upon receipt of Notice to Proceed. Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).		The CATANDUANES STATE UNIVERSITY now invites bids for the above Procurement Project. Delivery of the Goods is required <b>within ninety (90) calendar days</b> upon receipt of Notice to Proceed. Bidders should have completed, within three (3) years from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).	
b. Section VI. Schedule of Requirements	Delivered, Weeks/Months – <b>Within forty-five (45) calendar days</b> upon receipt of Notice to Proceed		Delivered, Weeks/Months – <b>Within ninety (90) calendar days</b> upon receipt of Notice to Proceed	
	<b>Item No.</b>	<b>Description</b>	<b>Item No.</b>	<b>Description</b>
c. Section VII. Technical Specifications  d. Section IX. Bidding Forms – Form 4 & Form 8 – Price Schedule	6	<b>Digital Microscope</b> <b>Features</b> <ul style="list-style-type: none"> <li>• High contrast and sharp image with high quality optical system</li> <li>• Low environment requirement with Anti-mould technology</li> <li>• Comfortable operation with low position coarse and fine adjustment knobs</li> <li>• ECO function is optional; automatically turn off after 15 mins of no use</li> <li>• With cord rest on the back, making the working table clean and tidy</li> </ul> Image Sensor CMOS, Aptina MT9P031 Sensor Size 1/2.5" Pixel Size 2.2um x 2.2um Video Resolution 1920 x 1080 Capture Resolution 2592 x 1944 Frame Rate 1920 x 1080 15fps via USB2.0 1920 x 1080 15fps via HDMI	6	<b>Digital Microscope</b> <b>Features</b> <ul style="list-style-type: none"> <li>• High contrast and sharp image with high quality optical system</li> <li>• Low environment requirement with Anti-mould technology</li> <li>• Comfortable operation with low position coarse and fine adjustment knobs</li> <li>• ECO function is optional; automatically turn off after 15 mins of no use</li> <li>• With cord rest on the back, making the working table clean and tidy</li> </ul> Image Sensor CMOS Sensor Size 1/2.5" Pixel Size 2.2um x 2.2um Video Resolution 1920 x 1080 Capture Resolution 2592 x 1944 Frame Rate 1920 x 1080 15fps via USB2.0 1920 x 1080 15fps via HDMI Data Record SD Card (4G)

*GS*



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	<p>Data Record SD Card (4G)            Video Record 1080p 15fps @ SD Card            1080p 15fps @ PC            Scan Mode Progressive            Electronic Shutter Electronic Rolling Shutter            A/D conversion 8 bit            Color Depth 24bit            Dynamic Range 60dB            S/N ratio 40.5dB            Exposure time 0.001 sec ~ 10.0 sec            Exposure Automatic &amp; Manual            White balance Automatic            Settings Gain, Gamma, Saturation, Contrast            Built- in software Cloud 1.0 version            PC software T Capture            Output model 1 USB2.0            Output model 2 HDMI            System Compatible Windows XP/Vista/Win 7/Win 8/Win 10(32 and 64-bit ), MAC OSX            Optical port C- Mount            Power Supply DC 12V /2A            Operational Temperature 0°C~60°C            Humidity 45%-85%            Storage Temperature - 20°C~70°C            Dimension &amp; Weight 74.4*67.2*90.9mm, 0.8kg</p>	<p>Video Record 1080p 15fps @ SD Card            1080p 15fps @ PC            Scan Mode Progressive            Electronic Shutter Electronic Rolling Shutter            A/D conversion 8 bit            Color Depth 24bit            Dynamic Range 60dB            S/N ratio 40.5dB            Exposure time 0.001 sec ~ 10.0 sec            Exposure Automatic &amp; Manual            White balance Automatic            Settings Gain, Gamma, Saturation, Contrast            Built- in software Cloud 1.0 version            PC software T Capture            Output model 1 USB2.0            Output model 2 HDMI            System Compatible Windows XP/Vista/Win 7/Win 8/Win 10(32 and 64-bit ), MAC OSX            Optical port C- Mount            Power Supply DC 12V /2A            Operational Temperature 0°C~60°C            Humidity 45%-85%            Storage Temperature - 20°C~70°C            Dimension &amp; Weight 74.4*67.2*90.9mm, 0.8kg</p>
	<p>7</p> <p><b>Pocket Fetal Doppler</b>  <i>Physical characteristics</i>            Dimension: 151x96x33mm (LxWxH)            Weight: about 207g (with batteries)  <i>Performance</i>  <ul style="list-style-type: none"> <li>• Safety classification: internally powered equipment, type CF applied part</li> <li>• Display: 1.77" LCD screen</li> <li>• FHR measurement and display range: 50 BPM □ <b>2400 BPM</b> (BPM: beats per minute)</li> <li>• Resolution: 1 BPM</li> <li>• Accuracy: ±2 BPM</li> <li>• Rated working voltage: DC3V</li> <li>• Battery type: two 1.5V batteries (AA LR6)</li> </ul> <i>Probe</i>  <ul style="list-style-type: none"> <li>• Nominal Frequency: 2.0MHz</li> <li>• Working Frequency: 2.0 MHz ±10%</li> <li>• Negative Peak Sound Pressure: p_ □ 1 mPa</li> <li>• Output Beam Intensity: Iob □ 20mW/cm<sup>2</sup></li> <li>• Spatial-peak Temporal-average</li> </ul> </p>	<p>7</p> <p><b>Pocket Fetal Doppler</b>  <i>Physical characteristics</i>            Dimension: 151x96x33mm (LxWxH)            Weight: about 207g (with batteries)  <i>Performance</i>  <ul style="list-style-type: none"> <li>• Safety classification: internally powered equipment, type CF applied part</li> <li>• Display: 1.77" LCD screen</li> <li>• FHR measurement and display range: 50 BPM □ <b>240 BPM</b> (BPM: beats per minute)</li> <li>• Resolution: 1 BPM</li> <li>• Accuracy: ±2 BPM</li> <li>• Rated working voltage: DC3V</li> <li>• Battery type: two 1.5V batteries (AA LR6)</li> </ul> <i>Probe</i>  <ul style="list-style-type: none"> <li>• Nominal Frequency: 2.0MHz</li> <li>• Working Frequency: 2.0 MHz ±10%</li> <li>• Negative Peak Sound Pressure: p_ □ 1 mPa</li> <li>• Output Beam Intensity: Iob □ 20mW/cm<sup>2</sup></li> <li>• Spatial-peak Temporal-average</li> </ul> </p>



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	FROM	TO
	Derived Intensity: Ispta $\leq 100\text{mW/cm}^2$ • Ultrasonic Output Power: P $\leq 20\text{mW}$ • Working Mode: Continues wave Doppler • Effective Radiating Area of Transducer: $\leq 208\text{mm}^2$	Derived Intensity: Ispta $\leq 100\text{mW/cm}^2$ • Ultrasonic Output Power: P $\leq 20\text{mW}$ • Working Mode: Continues wave Doppler • Effective Radiating Area of Transducer: $\leq 208\text{mm}^2$
15	<b>Maternal and Neonatal Birthing Simulator</b> • Full-size maternal patient simulator • Full-term intubatable newborn • 9 Labor and Delivery SLEs • Facilitators' Guidebook • Maternal speech • eCPR® measures and logs compressions and ventilations • Maternal vital signs monitor • Fetal heart tones and neonatal vital signs monitor • Precision delivery system • Programmable normal, breech, shoulder dystocia, and C-section • Programmable eclampsia w/seizures • Intubatable airway with chest rise • IV arms for meds/fluids • Removable stomach cover • Force and fetal shoulder position measured and graphed in real time • Programmable postpartum hemorrhage • Birthing fetus with placentas and umbilical cords • Bilateral radial pulses <i>Newborn with Cyanosis and Pulses</i> • Full-term intubatable newborn with cyanosis and pulses • eCPR® measures and logs compressions and ventilations • Realistic heart and lung sounds • Realistic crying <i>Simulated Vital Signs Monitor</i> • Touchscreen all-in-one PC preloaded with <b>Gaumard Vitals®</b> • Display up to 8 vital parameters including HR, ABP, RR, CO2, SpO2, temperature, NIBP, and time • Select up to 5 dynamic waveforms including ECG II, ABP, respiration, CO2, and pulse oximetry • Perinatal monitor with programmable uterine activity and fetal heart rate	15 <b>Maternal and Neonatal Birthing Simulator (<i>Mid-Fidelity</i>)</b> • Full-size maternal patient simulator • Full-term intubatable newborn • 9 Labor and Delivery SLEs • Facilitators' Guidebook • Maternal speech • eCPR measures and logs compressions and ventilations • Maternal vital signs monitor • Fetal heart tones and neonatal vital signs monitor • Precision delivery system • Programmable normal, breech, shoulder dystocia, and C-section • Programmable eclampsia w/seizures • Intubatable airway with chest rise • IV arms for meds/fluids • Removable stomach cover • Force and fetal shoulder position measured and graphed in real time • Programmable postpartum hemorrhage • Birthing fetus with placentas and umbilical cords • Bilateral radial pulses <i>Newborn with Cyanosis and Pulses</i> • Full-term intubatable newborn with cyanosis and pulses • eCPR® measures and logs compressions and ventilations • Realistic heart and lung sounds • Realistic crying <i>Simulated Vital Signs Monitor</i> • Touchscreen all-in-one PC preloaded with <b>virtual vital signs monitor software</b> • Display up to 8 vital parameters including HR, ABP, RR, CO2, SpO2, temperature, NIBP, and time • Select up to 5 dynamic waveforms including ECG II, ABP, respiration, CO2, and pulse oximetry • Perinatal monitor with programmable uterine activity and fetal heart rate

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	FROM	TO
	16 <b>Pediatric 5 year old Basic Life Support</b> <ul style="list-style-type: none"> <li>• Fully articulating head and jaw with teeth and tongue</li> <li>• Individual disposable airways to practice hygienic mouth-to-mouth ventilation</li> <li>• Airway blocked when head forward</li> <li>• Realistic chest rise during ventilation</li> <li>• Intraosseous infusion</li> <li>• Intravenous training arm</li> <li>• Carotid, femoral, and brachial arterial pulse sites</li> <li>• Femoral venous site</li> <li>• Intramuscular (IM) injection sites on the deltoids and quadriceps</li> <li>• <b>OMNI® Code Blue®</b> pack monitors and logs the cadence and depth of cardiac compression and airway ventilation</li> <li>• Soft, lifelike face with molded hair</li> <li>• Eyes open and close in realistic eye sockets for ophthalmic purposes</li> <li>• Bends at waist</li> <li>• Jointed elbows, wrists, knees, ankles</li> <li>• Realistic hands, feet, fingers, and toes</li> <li>• Detachable at waist for easy storage</li> <li>• Practice regular or Vest CPR</li> <li>• Custom nylon carrying bag</li> <li>• Instruction manual</li> </ul>	16 <b>Pediatric 5 year old Basic Life Support</b> <ul style="list-style-type: none"> <li>• Fully articulating head and jaw with teeth and tongue</li> <li>• Individual disposable airways to practice hygienic mouth-to-mouth ventilation</li> <li>• Airway blocked when head forward</li> <li>• Realistic chest rise during ventilation</li> <li>• Intraosseous infusion</li> <li>• Intravenous training arm</li> <li>• Carotid, femoral, and brachial arterial pulse sites</li> <li>• Femoral venous site</li> <li>• Intramuscular (IM) injection sites on the deltoids and quadriceps</li> <li>• <b>Code Blue</b> pack monitors and logs the cadence and depth of cardiac compression and airway ventilation</li> <li>• Soft, lifelike face with molded hair</li> <li>• Eyes open and close in realistic eye sockets for ophthalmic purposes</li> <li>• Bends at waist</li> <li>• Jointed elbows, wrists, knees, ankles</li> <li>• Realistic hands, feet, fingers, and toes</li> <li>• Detachable at waist for easy storage</li> <li>• Practice regular or Vest CPR</li> <li>• Custom nylon carrying bag</li> <li>• Instruction manual</li> </ul>

All portions of the Bidding Documents that are inconsistent insofar as the foregoing supplemental/bid bulletin is concerned, are hereby amended accordingly.

For further inquiries, you may coordinate with the Office of the BAC Secretariat, 1<sup>st</sup> Floor Administration Bldg., Catanduanes State University, Virac, Catanduanes.

For guidance and information of all concerned.

  
**LILY P. CUSTODIO, Ph.D.**  
 BAC Chairperson