



## ADDENDUM NO. 01

### Series of 2024

This Addendum No. 01 is issued to modify or amend items in the Bidding Documents for the **Procurement of Technical and Scientific Equipment for the Establishment of the School of Medicine, and Procurement of Highly Technical Power Sound System** This shall form an integral part of the Bid Documents.

Name of Project:	<b>Procurement of Technical and Scientific Equipment for the Establishment of the School of Medicine, and Procurement of Highly Technical Power Sound System</b>
Location:	CSU Campus, Ampayon, Butuan City
Brief Description:	Procurement of Technical and Scientific Equipment
Approved Budget for the Contract :	<b>Php. 16,000,000.00</b>
Source of Funds:	RAF 2024
Contract Duration:	90 Calendar Days

Please be informed of the changes in the Bidding Documents as follows:

CHANGES/ AMENDMENTS		
ITEM	FROM	TO
1	<u><b>Procurement of Technical and Scientific Equipment for the Establishment of the School of Medicine</b></u>  VISUALIZATION TABLE  -65" (Touchscreen) Visualization Table -Clinical Cases, Perpetual License of 100 OFFLINE Clinical Cases, -Perpetual License of Real Anatomy Dissector App -50 Digital Slides for Histology -50 Digital Slides for Pathology - KEY FEATURES & BENEFITS •Large 65" monitor with at least 10 multiple touch points •Direct capacitive touch screen with 4K resolution •Supplied with 100 clinical cases from CT & MRI scan •With perpetual license of Dissection software that has the ability to interact with correlated 3D and cross-sectional views of over 2,000 anatomical structures through identification, dissection, assembly and rotation. •With installation of at least 50 histology and 50 pathological slides •Supports group discussions & collaborative learning	<u><b>Procurement of Technical and Scientific Equipment for the Establishment of the School of Medicine</b></u>  VISUALIZATION TABLE  -65" (Touchscreen) Visualization Table -Clinical Cases, Perpetual License of 100 OFFLINE Clinical Cases, -Perpetual License of Real Anatomy Dissector App -50 Digital Slides for Histology -50 Digital Slides for Pathology - KEY FEATURES & BENEFITS •Large 65" monitor with at least 10 multiple touch points •Direct capacitive touch screen with 4K resolution •Supplied with 100 clinical cases from CT & MRI scan •With perpetual license of Dissection software that has the ability to interact with correlated 3D and cross-sectional views of over 2,000 anatomical structures through identification, dissection, assembly and rotation. •With installation of at least 50 histology and 50 pathological slides •Supports group discussions & collaborative learning



**BIDS AND AWARDS COMMITTEE**



<ul style="list-style-type: none"> <li>Table can be adjusted</li> <li>-TECHNICAL DATA SHEET</li> <li>Picture/ Display / Monitor</li> <li>Type: Industrial</li> <li>Diagonal screen size:65" (163 cm)</li> <li>Protection glass:6mm hardened clear glass</li> <li>Panel resolution:3840 x 2160 (4K QLed UHD)</li> <li>Optimum resolution:3840 x 2160 @ 120Hz E-Led</li> <li>Brightness:600 cd/m<sup>2</sup> (peak 1500 cd/m<sup>2</sup>)</li> <li>Contrast ratio (typical):6000:01:00</li> <li>Viewing angle (H / V):178 / 178 degrees</li> <li>Display colors:1.07 Billion</li> <li>Touch Technology</li> <li>Touch Points :10 simultaneous points (min separation 20 mm)</li> <li>Sensing Type: Mutual capacitance 2 layer</li> <li>Response Time:16ms</li> <li>Accuracy:±1.5mm</li> <li>Convenience:</li> <li>Easy access on table:3 x USB3.0, 1 x HDMI</li> <li>Inside cabinet:1xPower cable, 1xRJ45 (Gb Ethernet),</li> <li>6xUSB 2.0, 4xUSB 3.0, 1xMicrophone, 1xHeadphone, 3xDisplayPort, 1xHDMI, 1xDVI</li> <li>Placement: Vertical (Landscape), Horizontal (Table)</li> <li>Mobility:4 pieces of heavy-duty wheels, with locks</li> <li>Energy saving functions: Ambient light sensor, Certified Ports</li> <li>Computer</li> <li>CPU: Total Cores 6</li> <li>Total Threads 12</li> <li>Max Turbo Frequency 4.60 GHz</li> <li>Turbo Boost Technology 2.0 Frequency: 4.60 GHz</li> <li>Processor Base Frequency 3.20 GHz</li> <li>Cache 12 MB Smart Cache</li> <li>Bus Speed 8 GT/s</li> <li>TDP 65 W</li> <li>GPU: Graphic Processor: TU104 Cores: 2944</li> <li>TMUS: 184 ROPS: 64 Memory Size: 8 GB</li> <li>Memory Type: GDDR6 Bus Width: 256 bit</li> <li>Memory:32 GB</li> <li>Storage:1 x 256Gb SSD &amp; 1 TB HDD</li> <li>Software</li> <li>PACS version:IDS7 19.2 or later</li> <li>Operating system: Proprietary Operating System 64x Latest version with Built in AV, User Friendly</li> </ul>	<ul style="list-style-type: none"> <li>Table can be adjusted</li> <li>-TECHNICAL DATA SHEET</li> <li>Picture/ Display / Monitor</li> <li>Type: Industrial</li> <li>Diagonal screen size:65" (163 cm)</li> <li>Protection glass:6mm hardened clear glass</li> <li>Panel resolution:3840 x 2160 (4K QLed UHD)</li> <li>Optimum resolution:3840 x 2160 @ 120Hz E-Led</li> <li>Brightness:600 cd/m<sup>2</sup> (peak 1500 cd/m<sup>2</sup>)</li> <li>Contrast ratio (typical):6000:01:00</li> <li>Viewing angle (H / V):178 / 178 degrees</li> <li>Display colors:1.07 Billion</li> <li>Touch Technology</li> <li>Touch Points :10 simultaneous points (min separation 20 mm)</li> <li>Sensing Type: Mutual capacitance 2 layer</li> <li>Response Time:16ms</li> <li>Accuracy:±1.5mm</li> <li>Convenience:</li> <li>Easy access on table:3 x USB3.0, 1 x HDMI</li> <li>Inside cabinet:1xPower cable, 1xRJ45 (Gb Ethernet),</li> <li>6xUSB 2.0, 4xUSB 3.0, 1xMicrophone, 1xHeadphone, 3xDisplayPort, 1xHDMI, 1xDVI</li> <li>Placement: Vertical (Landscape), Horizontal (Table)</li> <li>Mobility:4 pieces of heavy-duty wheels, with locks</li> <li>Energy saving functions: Ambient light sensor, Certified Ports</li> <li>Computer</li> <li>CPU: Total Cores 6</li> <li>Total Threads 12</li> <li>Max Turbo Frequency 4.60 GHz</li> <li>Turbo Boost Technology 2.0 Frequency: 4.60 GHz</li> <li>Processor Base Frequency 3.20 GHz</li> <li>Cache 12 MB Smart Cache</li> <li>Bus Speed 8 GT/s</li> <li>TDP 65 W</li> <li>GPU: Graphic Processor: TU104 Cores: 2944</li> <li>TMUS: 184 ROPS: 64 Memory Size: 8 GB</li> <li>Memory Type: GDDR6 Bus Width: 256 bit</li> <li>Memory:32 GB</li> <li>Storage:1 x 256Gb SSD &amp; 1 TB HDD</li> <li>Software</li> <li>PACS version:IDS7 19.2 or later</li> <li>Operating system: Proprietary Operating System 64x Latest version with Built in AV, User Friendly</li> </ul>
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## BIDS AND AWARDS COMMITTEE



<p>Dimensions Bezel thickness: 30 mm horizontal, 30 mm vertical Set dimensions (W x H x D) Width: 1547 mm Height: min. 795 mm (in table mode) Height: max. 1185 mm (in table mode) Depth: 921 mm (in table mode) Product weight: 220 kg including PC</p> <p>Power Consumption (Typical/Max): 144W (Typical), 850W (Max) Standby Consumption: &lt;1W Power Options: 230V/100V</p> <p>SOFTWARE</p> <ul style="list-style-type: none"><li>It should be capable of doing 3D reconstruction from CT and MRI clinical images through DICOM data reconstruction without any format conversion of the file. The users can import and save any modality data which includes but not limited to: CT, MRI, Ultrasound, Angiograms, Mammograms, and X-Rays.</li><li>It should allow to measure, cut in plane and sphere and label structures in different colors in the 3D reconstruction without any additional program or application.</li><li>The system should show 3D structures and 2D projection view (MPR) at the same time on the same screen. This view should allow to locate one point or coordinate in 3D structure and show it in the 2D projection view in the three planes simultaneously.</li><li>It should give a view of the three planes transverse, sagittal and coronal without any 3D model, with possibility of measurements, text annotations and multiplanar synchronization.</li><li>The interface should present movable control/tool buttons for users to hand over commands to others in group discussions.</li><li>It should include lessons and dissection guides that allow students to understand the anatomy with the interactive 3D volume at the same time as photos from the dissected areas.</li><li>It should come with a bookmarking feature allowing the Professor to prepare cases before the class and saving the work/bookmarks for a home access, homework or next class and should be able to segment structures from the 3D clinical cases. All segmented bones should be able to be saved and retrieved without further processing.</li><li>It should come with histology library with digitalized images from physical pathology slides,</li></ul>	<p>Dimensions Bezel thickness: 30 mm horizontal, 30 mm vertical Set dimensions (W x H x D) Width: 1547 mm Height: min. 795 mm (in table mode) Height: max. 1185 mm (in table mode) Depth: 921 mm (in table mode) Product weight: 220 kg including PC</p> <p>Power Consumption (Typical/Max): 144W (Typical), 850W (Max) Standby Consumption: &lt;1W Power Options: 230V/100V</p> <p>SOFTWARE</p> <ul style="list-style-type: none"><li>It should be capable of doing 3D reconstruction from CT and MRI clinical images through DICOM data reconstruction without any format conversion of the file. The users can import and save any modality data which includes but not limited to: CT, MRI, Ultrasound, Angiograms, Mammograms, and X-Rays.</li><li>It should allow to measure, cut in plane and sphere and label structures in different colors in the 3D reconstruction without any additional program or application.</li><li>The system should show 3D structures and 2D projection view (MPR) at the same time on the same screen. This view should allow to locate one point or coordinate in 3D structure and show it in the 2D projection view in the three planes simultaneously.</li><li>It should give a view of the three planes transverse, sagittal and coronal without any 3D model, with possibility of measurements, text annotations and multiplanar synchronization.</li><li>The interface should present movable control/tool buttons for users to hand over commands to others in group discussions.</li><li>It should include lessons and dissection guides that allow students to understand the anatomy with the interactive 3D volume at the same time as photos from the dissected areas.</li><li>It should come with a bookmarking feature allowing the Professor to prepare cases before the class and saving the work/bookmarks for a home access, homework or next class and should be able to segment structures from the 3D clinical cases. All segmented bones should be able to be saved and retrieved without further processing.</li><li>It should come with histology library with digitalized images from physical pathology slides,</li></ul>
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## BIDS AND AWARDS COMMITTEE



<p>with at least the following tools: zoom, annotate, measure area and distance.</p> <ul style="list-style-type: none"><li>• It should come with Cadaver Dissection Guide and embedded lessons with automatic link to colored anatomy models from a frozen cadaver.</li><li>• Can share the entire screen of the table with Zoom, Teams, Skype etc</li></ul> <p><b>HARDWARE</b></p> <ul style="list-style-type: none"><li>• It should have a single industrial monitor of at least 65", with mutual capacitive touchscreen and resolution of at least 3840 X 2160 (4K) QLED technology with hardened clear glass and 10 simultaneous touch points</li><li>• It should be adjustable in height to at least 1100 mm through an electrical motor allowing two positions to be stored.</li><li>• It should have the facility of tilting for board position in the classrooms and the ability of stop in increments at any position between 0° and 90° through an electrical motor.</li></ul> <p><b>LIST OF CLINICAL CASES AVAILABLE ON THE TABLE</b></p> <p>Case name Modality</p> <p>Colon CT</p> <p>Abdomen CT</p> <p>Thorax &amp; Abdomen A CT</p> <p>Spleen Rupture CT</p> <p>Female Pelvis A MR</p> <p>Hysteromyoma MR</p> <p>Mrcp, gallstones MR</p> <p>Knee MR</p> <p>Head CT</p> <p>Brain Angio CT</p> <p>Thorax &amp; Abdomen B CT</p> <p>Thorax A CT</p> <p>Aorta Dissection CT</p> <p>Abdominal Aortic Aneurysm (Stented) CT</p> <p>Coronary Artery Bypass Graft &amp; Abdominal Aortic Aneurysm CT</p> <p>Fracture CT</p> <p>Pulmonary Emphysema CT</p> <p>Abdominal Aortic Aneurysm B CT</p> <p>Heart A (Multiple Calcified Plaques)  CT</p> <p>Heart B CT</p> <p>Ear  CT</p> <p>Heart C CT</p> <p>Lumbar Vertebra Fracture CT</p> <p>Pneumothorax CT</p> <p>Thorax B CT</p> <p>Knee Replacement CT</p> <p>Liver Transplantation  CT</p>	<p>with at least the following tools: zoom, annotate, measure area and distance.</p> <ul style="list-style-type: none"><li>• It should come with Cadaver Dissection Guide and embedded lessons with automatic link to colored anatomy models from a frozen cadaver.</li><li>• Can share the entire screen of the table with Zoom, Teams, Skype etc</li></ul> <p><b>HARDWARE</b></p> <ul style="list-style-type: none"><li>• It should have a single industrial monitor of at least 65", with mutual capacitive touchscreen and resolution of at least 3840 X 2160 (4K) QLED technology with hardened clear glass and 10 simultaneous touch points</li><li>• It should be adjustable in height to at least 1100 mm through an electrical motor allowing two positions to be stored.</li><li>• It should have the facility of tilting for board position in the classrooms and the ability of stop in increments at any position between 0° and 90° through an electrical motor.</li></ul> <p><b>LIST OF CLINICAL CASES AVAILABLE ON THE TABLE</b></p> <p>Case name Modality</p> <p>Colon CT</p> <p>Abdomen CT</p> <p>Thorax &amp; Abdomen A CT</p> <p>Spleen Rupture CT</p> <p>Female Pelvis A MR</p> <p>Hysteromyoma MR</p> <p>Mrcp, gallstones MR</p> <p>Knee MR</p> <p>Head CT</p> <p>Brain Angio CT</p> <p>Thorax &amp; Abdomen B CT</p> <p>Thorax A CT</p> <p>Aorta Dissection CT</p> <p>Abdominal Aortic Aneurysm (Stented) CT</p> <p>Coronary Artery Bypass Graft &amp; Abdominal Aortic Aneurysm CT</p> <p>Fracture CT</p> <p>Pulmonary Emphysema CT</p> <p>Abdominal Aortic Aneurysm B CT</p> <p>Heart A (Multiple Calcified Plaques)  CT</p> <p>Heart B CT</p> <p>Ear  CT</p> <p>Heart C CT</p> <p>Lumbar Vertebra Fracture CT</p> <p>Pneumothorax CT</p> <p>Thorax B CT</p> <p>Knee Replacement CT</p> <p>Liver Transplantation  CT</p>
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Kidney Transplantation CT	Kidney Transplantation CT
Heart Transplantation  CT	Heart Transplantation  CT
Liver Cancer  CT	Liver Cancer  CT
Kidney Cancer CT	Kidney Cancer CT
Neck Angio CT	Neck Angio CT
Azygous Vein  CT	Azygous Vein  CT
Brain MR	Brain MR
Cerebral Hemorrhage CT	Cerebral Hemorrhage CT
Spine MR	Spine MR
Spinal Disc Herniation  MR	Spinal Disc Herniation  MR
Cerebral Infarction MR	Cerebral Infarction MR
Peripheral Vascular, Angiography CT	Peripheral Vascular, Angiography CT
Lower Skeleton CT	Lower Skeleton CT
Female Pelvis B CT	Female Pelvis B CT
Shoulder Fracture  CT	Shoulder Fracture  CT
Tibiofibula Fracture  CT	Tibiofibula Fracture  CT
Airways CT	Airways CT
Aorta Dissection (stented) CT	Aorta Dissection (stented) CT
Heart D CT	Heart D CT
Distal Tibiofibula Fracture CT	Distal Tibiofibula Fracture CT
Knee Replacement B  CT	Knee Replacement B  CT
Heart E CT	Heart E CT
Femoral head replacement  CT	Femoral head replacement  CT
Abdomen B CT	Abdomen B CT
Foot, Fracture CT	Foot, Fracture CT
Heart F CT	Heart F CT
Knee, Fracture CT	Knee, Fracture CT
Brain B MR	Brain B MR
Spine, Scoliosis CT	Spine, Scoliosis CT
Thorax, Tumor CT	Thorax, Tumor CT
Urography CT	Urography CT
Facial Fracture CT	Facial Fracture CT
Abdomen C CT	Abdomen C CT
Nasosinusitis A CT	Nasosinusitis A CT
Cervical Vertebrae CT	Cervical Vertebrae CT
Nasosinusitis B CT	Nasosinusitis B CT
Hip CT	Hip CT
Intervertebral Disc Degeneration CT	Intervertebral Disc Degeneration CT
Iliac Aneurysm CT	Iliac Aneurysm CT
Herniation  CT	Herniation  CT
Abdomen D CT	Abdomen D CT
Tibial Fracture  CT	Tibial Fracture  CT
Aorta CT	Aorta CT
Ear B CT	Ear B CT
Abdominal Aortic Aneurysm (stented) C  CT	Abdominal Aortic Aneurysm (stented) C  CT
Thorax & Abdomen C CT	Thorax & Abdomen C CT
Carpal Fracture  CT	Carpal Fracture  CT
Spinal Fusion A CT	Spinal Fusion A CT
Spinal Fusion B CT	Spinal Fusion B CT
Elbow CT	Elbow CT
Lung CT	Lung CT



Femur|CT  
Carotid Artery|CT  
Heart G|CT  
Hand|CT  
Knee Replacement C|CT  
Ureteral Calculus|CT  
Thorax & Abdomen D|CT  
Thorax C|CT  
Abdomen E|CT  
Lumbar Vertebrae|CT  
Heart H| CT  
Axillary Artery|CT  
Pulmonary Circulation|CT  
Abdominal & Pelvic Cavity| CT  
Thorax & Abdomen E|CT  
Shoulder |CT  
Thorax D |CT  
Heart I|CT  
Thorax & Abdomen F|CT  
Carpus|CT  
Neck & Thorax|CT  
Torso & Thigh|CT

#### TERMS & CONDITION

- must conduct product demonstration of the equipment offered to make sure that it is in compliance with the required specification
- must have dedicated, experienced Technical Support (preferably with trainings abroad that will support the equipment to be bid)
- must conduct training and after sales support of the equipment to be bid
- with 1 year warranty on parts and services.

#### DATA ACQUISITION SYSTEM FOR PHYSIOLOGY

- System that can perform human basic Physiology experiments such as:
  1. Airflow
  - a. Pulmonary Function Test
  - b. Dynamic Function Test
  - c. Obstructed Airways
- 2. Autonomic Nervous System
  - a. Assessing Autonomic Function
  - b. Effect of Nerve Stimulation
  - c. Effects of other Stimuli
  - d. Heart Rate Variability
  - e. Effects of Valsalva Maneuver
  - f. Effects of Posture on Heart Rate
  - g. Pupillary Reflexes

Femur|CT  
Carotid Artery|CT  
Heart G|CT  
Hand|CT  
Knee Replacement C|CT  
Ureteral Calculus|CT  
Thorax & Abdomen D|CT  
Thorax C|CT  
Abdomen E|CT  
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#### TERMS & CONDITION

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#### DATA ACQUISITION SYSTEM FOR PHYSIOLOGY

- System that can perform human basic Physiology experiments such as:
  1. Airflow
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  - a. Assessing Autonomic Function
  - b. Effect of Nerve Stimulation
  - c. Effects of other Stimuli
  - d. Heart Rate Variability
  - e. Effects of Valsalva Maneuver
  - f. Effects of Posture on Heart Rate
  - g. Pupillary Reflexes



3.Blood Pressure	3.Blood Pressure
a.Auscultation	a.Auscultation
b.Blood Pressure and Finger Pulse	b.Blood Pressure and Finger Pulse
4.Breathing	4.Breathing
a.Respiration	a.Respiration
b.Normal Respiration	b.Normal Respiration
c.Breathing and Heart Rate	c.Breathing and Heart Rate
d.Breathing Rate and Exercise	d.Breathing Rate and Exercise
5.Diving Response	5.Diving Response
a.Dive simulation and Heart rate	a.Dive simulation and Heart rate
b.Breath-hold and Heart rate	b.Breath-hold and Heart rate
c.Dive simulation and circulation	c.Dive simulation and circulation
6.Electroencephalography	6.Electroencephalography
a.EEG recording	a.EEG recording
b.Recognizing Artifacts	b.Recognizing Artifacts
c.Alpha and beta rhythm	c.Alpha and beta rhythm
d.Mental activity	d.Mental activity
e.Auditory Stimulation	e.Auditory Stimulation
7.Glucose Absorption	7.Glucose Absorption
8.Heart & ECG	8.Heart & ECG
a.ECG and Pulse	a.ECG and Pulse
9.Heart & Peripheral Circulation	9.Heart & Peripheral Circulation
a.Direction and blood flow	a.Direction and blood flow
b.Palpation of arm arterial pulses	b.Palpation of arm arterial pulses
c.Palpation of leg arterial pulses	c.Palpation of leg arterial pulses
d.Radial pulse	d.Radial pulse
e.Arterial anastomoses	e.Arterial anastomoses
f.Jugular venous pulse	f.Jugular venous pulse
10.Heart Sounds	10.Heart Sounds
a.Listening to heart sounds	a.Listening to heart sounds
b.Recording an ECG	b.Recording an ECG
c.ECG, PCG and pulse	c.ECG, PCG and pulse
11.Kidney & Urine	11.Kidney & Urine
12.Lung Volume	12.Lung Volume
a.Pulmonary Function Test	a.Pulmonary Function Test
b.Static Measurements	b.Static Measurements
c.Dynamic Function Test	c.Dynamic Function Test
d.Hyperinflated Breathing	d.Hyperinflated Breathing
e.Hyperinflated Function Test	e.Hyperinflated Function Test
13.Muscle and EMG	13.Muscle and EMG
a.Electromyography	a.Electromyography
b.Grip Force	b.Grip Force
c.Muscle Fatigue	c.Muscle Fatigue
d.Force with encouragement	d.Force with encouragement
e.Visual feedback	e.Visual feedback
14.Peripheral Nerve Function	14.Peripheral Nerve Function
a.Nerve conduction velocity	a.Nerve conduction velocity
b.Nerve Stimulation	b.Nerve Stimulation
c.Evoked EMG	c.Evoked EMG
d.Nerve Conduction Velocity	d.Nerve Conduction Velocity
15.Illusion including 6 different exercise	15.Illusion including 6 different exercise



<p>16.Sensory Physiology including 18 different exercises 17.Skeletal Muscle Function a.Nerve Stimulation b.Twitch response and recruitment c.Summation d.Tetanus eConduction velocity 18.Stroop Test including 4 different exercise 19.Water Balance</p>	<p>16.Sensory Physiology including 18 different exercises 17.Skeletal Muscle Function a.Nerve Stimulation b.Twitch response and recruitment c.Summation d.Tetanus eConduction velocity 18.Stroop Test including 4 different exercise 19.Water Balance</p>
<p><b>INCLUDES:</b></p> <p>a. 1 set Data Acquisition Unit with built-in, fully isolated, two-channel bio amplifier, isolated stimulator, separate non-isolated analog inputs, and a differential-mode analog output. This should include the basic transducer:</p> <ul style="list-style-type: none"><li>• Pulse Transducer,</li><li>• Stimulating Bar Electrode,</li><li>• Shielded Bio Amp Cable,</li><li>• Shielded Lead Wires (5)</li><li>• BNC to DIN Cable (2m)</li></ul> <p>b. 1 set Physiology Accessory Kit that contains all the components required to perform standard physiology experiments using data acquisition unit. It should include:</p> <ul style="list-style-type: none"><li>• Grip Force Transducer</li><li>• Push Button Switch</li><li>• Respiratory Belt Transducer</li><li>• Finger Pulse Transducer</li><li>• Reusable ECG Electrodes</li><li>• Dry Earth Strap</li><li>• EEG Flat Electrodes</li><li>• Electrode Cream</li><li>• Electrode Paste</li><li>• Disposable ECG Electrodes</li><li>• Abrasive Gel</li></ul> <p>c. 1 set The Human Respiratory Kit that allows recording and analysis of respiratory parameters such as minute ventilation and tidal volume along with the calculation of PIF, PEF, FVC and FEV1.</p> <p>The kit includes:</p> <ul style="list-style-type: none"><li>• Spirometer Pod</li><li>• Respiratory Flow Head</li><li>• Student Disposable Respiratory Kit (5)</li><li>• Clean Bore</li><li>• Disposable Filters (50pcs)</li></ul>	<p><b>INCLUDES:</b></p> <p>a. 1 set Data Acquisition Unit with built-in, fully isolated, two-channel bio amplifier, isolated stimulator, separate non-isolated analog inputs, and a differential-mode analog output. This should include the basic transducer:</p> <ul style="list-style-type: none"><li>• Pulse Transducer,</li><li>• Stimulating Bar Electrode,</li><li>• Shielded Bio Amp Cable,</li><li>• Shielded Lead Wires (5 Units)</li><li>• BNC to DIN Cable (2m)</li></ul> <p>b. 1 set Physiology Accessory Kit that contains all the components required to perform standard physiology experiments using data acquisition unit. It should include:</p> <ul style="list-style-type: none"><li>• Grip Force Transducer</li><li>• Push Button Switch</li><li>• Respiratory Belt Transducer</li><li>• Finger Pulse Transducer</li><li>• Reusable ECG Electrodes</li><li>• Dry Earth Strap</li><li>• EEG Flat Electrodes</li><li>• Electrode Cream</li><li>• Electrode Paste</li><li>• Disposable ECG Electrodes</li><li>• Abrasive Gel</li></ul> <p>c. 1 set The Human Respiratory Kit that allows recording and analysis of respiratory parameters such as minute ventilation and tidal volume along with the calculation of PIF, PEF, FVC and FEV1.</p> <p>The kit includes:</p> <ul style="list-style-type: none"><li>• Spirometer Pod</li><li>• Respiratory Flow Head</li><li>• Student Disposable Respiratory Kit (5 Units)</li><li>• Clean Bore</li><li>• Disposable Filters (50pcs)</li></ul>



<p>d. 1 unit Laptop with installation of software used in recording and analyzing data</p>	<p>d. 1 unit Laptop with installation of software used in recording and analyzing data</p>
<p><b>TECHNICAL SPECIFICATION OF THE LAPTOP</b></p> <p>Processor : Total Cores 6    Total Threads: 12    Max Turbo Frequency 4.60 GHz    Turbo Boost Technology 2.0 Frequency‡ 4.60 GHz    Processor Base Frequency 3.20 GHz    Cache 12 MB Smart Cache    Bus Speed 8 GT/s    TDP: 65 W    Memory : 8GB DDR4    Storage : 512GB SSD    Display : 15.6" Full HD 1920 x 1080    Graphics : UHD</p>	<p><b>TECHNICAL SPECIFICATION OF THE LAPTOP</b></p> <p>Processor : Total Cores 6    Total Threads: 12    Max Turbo Frequency 4.60 GHz    Turbo Boost Technology 2.0 Frequency‡ 4.60 GHz    Processor Base Frequency 3.20 GHz    Cache 12 MB Smart Cache    Bus Speed 8 GT/s    TDP: 65 W    Memory : 8GB DDR4    Storage : 512GB SSD    Display : 15.6" Full HD 1920 x 1080    Graphics : UHD</p>
<p><b>TERMS &amp; CONDITION</b></p> <ul style="list-style-type: none"> <li>must conduct product demonstration of the equipment offered to make sure that it is in compliance of the required specification</li> <li>must have dedicated, experienced Technical Support with training abroad that will support the equipment to be bid</li> <li>must conduct trainings and after sales support of the equipment to be bid</li> <li>with 3 years warranty on hardware and 1 year warranty on the transducers / sensors.</li> </ul>	<p><b>TERMS &amp; CONDITION</b></p> <ul style="list-style-type: none"> <li>must conduct product demonstration of the equipment offered to make sure that it is in compliance of the required specification</li> <li>must have dedicated, experienced Technical Support <b>preferably</b> with training abroad that will support the equipment to be bid</li> <li>must conduct trainings and after sales support of the equipment to be bid</li> <li>with 3 years warranty on hardware and 1 year warranty on the transducers / sensors.</li> </ul>
<p><b>INTRAVENOUS TRAINING ARM</b></p>	<p><b>INTRAVENOUS TRAINING ARM</b></p>
<p><b>PRODUCT FEATURES</b></p> <ul style="list-style-type: none"> <li>Prominent multi-venous network</li> <li>Simulated cephalic, basilic, antecubital, radial, and ulnar veins.</li> <li>Simulation of infusion technique</li> <li>Practice blood collection exercises with simulated blood</li> <li>Administration of medication by intravenous bolus</li> <li>Simulation of clenched fist or tourniquet position.</li> <li>Simulation of collapsed veins</li> <li>Realistic "pop" as needle enters vein</li> <li>Resealing veins and outer skin</li> <li>Smoked Lucite base with stand</li> </ul>	<p><b>PRODUCT FEATURES</b></p> <ul style="list-style-type: none"> <li>Prominent multi-venous network</li> <li>Simulated cephalic, basilic, antecubital, radial, and ulnar veins.</li> <li>Simulation of infusion technique</li> <li>Practice blood collection exercises with simulated blood</li> <li>Administration of medication by intravenous bolus</li> <li>Simulation of clenched fist or tourniquet position.</li> <li>Simulation of collapsed veins</li> <li>Realistic "pop" as needle enters vein</li> <li>Resealing veins and outer skin</li> <li>Smoked Lucite base with stand</li> </ul>



<p><b>TERMS &amp; CONDITION</b></p> <ul style="list-style-type: none"> <li>must conduct product demonstration of the equipment offered to make sure that it is in compliance of the required specification</li> <li>must have dedicated, experienced Technical Support with training abroad that will support the equipment to be bid</li> <li>must conduct trainings and after sales support of the equipment to be bid</li> <li>with 1 year warranty on parts and services</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- External features of the Brain</li> <li>- Dissected to show the external features of the whole brain</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- Coronal section of the Brain</li> <li>- Coronal section, dissected to show the inner Structure of the brain.</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- External features and blood vessel of the heart</li> <li>- In vitro, heart with the vessel attached, dissected to show the external features.</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- Double lungs with heart</li> <li>- In Vitro with the heart</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- Terms of Reference for Plastinated Specimens           <ol style="list-style-type: none"> <li>Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.</li> <li>Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.</li> <li>Plastinates should have a life-like natural color.</li> <li>Plastinates should be completely dry to touch not gluey, sticky or watery.</li> <li>Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers</li> <li>Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.</li> </ol> </li> </ul>	<p><b>TERMS &amp; CONDITION</b></p> <ul style="list-style-type: none"> <li>must conduct product demonstration of the equipment offered to make sure that it is in compliance of the required specification</li> <li>must have dedicated, experienced Technical Support preferably with training abroad that will support the equipment to be bid</li> <li>must conduct trainings and after sales support of the equipment to be bid</li> <li>with 1 year warranty on parts and services</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- External features of the Brain</li> <li>- Dissected to show the external features of the whole brain</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- Coronal section of the Brain</li> <li>- Coronal section, dissected to show the inner Structure of the brain.</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- External features and blood vessel of the heart</li> <li>- In vitro, heart with the vessel attached, dissected to show the external features.</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- Double lungs with heart</li> <li>- In Vitro with the heart</li> </ul> <p><b>PLASTINATED SPECIMEN</b></p> <ul style="list-style-type: none"> <li>- Terms of Reference for Plastinated Specimens           <ol style="list-style-type: none"> <li>Plastinated specimens are preserved using specialized silicone or compound for whole body or regional parts.</li> <li>Plastinates should be cleanly dissected to reveal specific anatomical parts and not twisted, deformed or distorted.</li> <li>Plastinates should have a life-like natural color.</li> <li>Plastinates should be completely dry to touch not gluey, sticky or watery.</li> <li>Plastinates should be odorless and should not emit any odor/ foul smell or when stored in glass containers</li> <li>Plastinates should be non-toxic and does not possess any allergic reactions to the eyes, nose, skin etc.</li> </ol> </li> </ul>
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**BIDS AND AWARDS COMMITTEE**



<p>7. Plastinates should be portable i.e not heavy</p> <p>8. Distributor should replace the plastinated specimen when it does not conform to the conditions above.</p> <p>9. Plastinates should have a 3-Dimensional feature</p> <p>10. Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 degC</p> <p>11. Distributor should render free aftersales and preventive maintenance service for at least 5 years.</p> <p>12. Distributor should be able to provide repair when specimens are damaged.</p> <p>13. The distributor must show an actual demo unit</p> <p>14. With 5-year warranty as to the composition of the items.</p> <p><b>Additional Specifications:</b></p> <ul style="list-style-type: none"> <li>- Freight on destination (Caraga State University Ampayon Campus)</li> </ul>	<p>7. Plastinates should be portable i.e not heavy</p> <p>8. Distributor should replace the plastinated specimen when it does not conform to the conditions above.</p> <p>9. Plastinates should have a 3-Dimensional feature</p> <p>10. Plastinates can be stored in free air (not airconditioned) indefinitely. Humidity ranges below 60% and can withstand temp range of 20-30 degC</p> <p>11. Distributor should render free aftersales and preventive maintenance service for at least 5 years.</p> <p>12. Distributor should be able to provide repair when specimens are damaged.</p> <p>13. The distributor must show an actual demo unit</p> <p>14. With 5-year warranty as to the composition of the items.</p> <p><b>Additional Specifications:</b></p> <ul style="list-style-type: none"> <li>- Freight on destination (Caraga State University Ampayon Campus)</li> </ul>
<p>Procurement of Highly Technical Power Sound System</p> <p>6 LINE ARRAY SPEAKERS PER SIDE-POWERED WOOFER WITH 1 SUBWOOFER &amp; FLYING FRAME PER SIDE</p> <p>2 sets</p> <p>a.Power Rating PMS:350W Power Rating MAX:700W Frequency response +/-3dB: 65 Hz - 18KHz Frequency response -10dB: 50Hz - 18KHz Coverage Pattern (HxV): I00° x 15° Maximum SPL: 122d B / 138d B (Peak) LF Driver: 10" Woofer,3" VC,Neodymium</p> <p>2 HF Driver: 1.4" exit , 3" VC , Titanium Amplifier type: D-Class with DSP. Input connectors: XLR 20KΩ balanced. Output connectors: XLR Balanced Cooling system: Passive radiator Functions: DSP set up, Low cut, USB service Power voltage: 115V &amp; 230V AC Enclosure: 15mm&amp;18mm Multilayer plywood Coating: Water resistant black paint SPECS OF SUBWOOFER System type: 18" Line Array Module Power Rating RMS: 1000W Power Rating MAX.: 1800W Frequency response +/-3dB: 50Hz-100Hz Frequency response -10dB: 45Hz-100Hz</p>	<p>Procurement of Highly Technical Power Sound System</p> <p>6 LINE ARRAY SPEAKERS PER SIDE-POWERED WOOFER WITH 1 SUBWOOFER &amp; FLYING FRAME PER SIDE</p> <p>2 sets</p> <p>a.Power Rating PMS:350W Power Rating MAX:700W Frequency response +/-3dB: 65 Hz - 18KHz Frequency response -10dB: 50Hz - 18KHz Coverage Pattern (HxV): I00° x 15° Maximum SPL: 122d B / 138d B (Peak) LF Driver: 10" Woofer,3" VC,Neodymium</p> <p>HF Driver: 1.4" exit , 3" VC , Titanium Amplifier type: D-Class with DSP. Input connectors: XLR 20KΩ balanced. Output connectors: XLR Balanced Cooling system: Passive radiator Functions: DSP set up, Low cut, USB service Power voltage: 115V &amp; 230V AC Enclosure: 15mm&amp;18mm Multilayer plywood Coating: Water resistant black paint SPECS OF SUBWOOFER System type: 18" Line Array Module Power Rating RMS: 1000W Power Rating MAX.: 1800W Frequency response +/-3dB: 50Hz-100Hz Frequency response -10dB: 45Hz-100Hz</p>



## BIDS AND AWARDS COMMITTEE



<p>Maximum SPL: 129dB / 136dB (Peak) LF Driver: 18" Woofer , 4" VC Amplifier type: D-Class with DSP, Input connectors: XLR 20KΩ balanced Output connectors: XLR Balanced Cooling system: Passive radiator Functions: DSP setup, Low cut, USB service Power voltage: 115V &amp; 230V AC Enclosure: 18mm Multilayer plywood Coating: Water resistant black paint <b>B.MIXING CONSOLE</b> 1unit Type:Analog Channels: 32 Computer Connectivity: 1 x USB (compatible: All types of devices) Faders: 36 Inputs - Mic Preamps:24 x XLR Phantom Power:24 Inputs - Line:32 x TRS (16 x Mono, 4 x Stereo) Inputs - Other:4 x Stereo (RCA) Outputs - Main:2 x XLR, 2 x TRS, 1 x XLR (Mono) Outputs - Other:4 x TRS (Monitor, Matrix), 4 x TRS (Bus) Aux Sends:6 x Sends Send/Return I/O:6 x TRS, 4 x Stereo Busses/Groups:4 x Bus Channel Inserts:Yes Headphones:1 x 1/4" Talkback: Yes EQ Bands:3-band, Sweepable Mid <b>C.SNAKE CABLE</b> 4 units 16 Input, 4 input Snake Cable, 100FT <b>DLOUDSPEAKER MANAGEMENT SYSTEM</b> 1unit With Advanced Feedback Suppression Mobile Control (Android®, iOS®, Mac®, Windows®)dbx Compression Graphic EQ 8-Band Parametric EQ (adjusted when using the AutoEQ) Input Subharmonic Synthesis Crossover (supports full range, 2-way, and 3-way systems) 8-Band Parametric EQs (used for speaker tunings) Output dbx Limiting <b>E.DUAL SUBWOOFER</b> 4 units LF Driver: 2 x 18", 4" VC Amplifier: 1000W + 1000W Class D FREQ RESP(-3dB): 40Hz-100Hz FREQ RESP(-10dB): 35Hz-100Hz</p>	<p>Maximum SPL: 129dB / 136dB (Peak) LF Driver: 18" Woofer , 4" VC Amplifier type: D-Class with DSP, Input connectors: XLR 20KΩ balanced Output connectors: XLR Balanced Cooling system: Passive radiator Functions: DSP setup, Low cut, USB service Power voltage: 115V &amp; 230V AC Enclosure: 18mm Multilayer plywood Coating: Water resistant black paint <b>B.MIXING CONSOLE</b> 1unit Type:Analog Channels: 32 Computer Connectivity: 1 x USB (compatible: All types of devices) Faders: 36 Inputs - Mic Preamps:24 x XLR Phantom Power:24 Inputs - Line:32 x TRS (16 x Mono, 4 x Stereo) Inputs - Other:4 x Stereo (RCA) Outputs - Main:2 x XLR, 2 x TRS, 1 x XLR (Mono) Outputs - Other:4 x TRS (Monitor, Matrix), 4 x TRS (Bus) Aux Sends:6 x Sends Send/Return I/O:6 x TRS, 4 x Stereo Busses/Groups:4 x Bus Channel Inserts: Yes Headphones:1 x 1/4" Talkback: Yes EQ Bands:3-band, Sweepable Mid <b>C.SNAKE CABLE</b> 4 units 16 Input, 4 input Snake Cable, 100FT <b>DLOUDSPEAKER MANAGEMENT SYSTEM</b> 1unit With Advanced Feedback Suppression Mobile Control (Android®, iOS®, Mac®, Windows®)dbx Compression Graphic EQ 8-Band Parametric EQ (adjusted when using the AutoEQ) Input Subharmonic Synthesis Crossover (supports full range, 2-way, and 3-way systems) 8-Band Parametric EQs (used for speaker tunings) Output dbx Limiting <b>E.DUAL SUBWOOFER</b> 4 units LF Driver: 2 x 18", 4" VC Amplifier: 1000W + 1000W Class D FREQ RESP(-3dB): 40Hz-100Hz FREQ RESP(-10dB): 35Hz-100Hz</p>
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**BIDS AND AWARDS COMMITTEE**



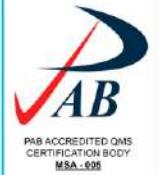
<p>Low-pass filter: 70Hz-120Hz Low-pass filter select switch    Phase: Phase switch 0-180°    Audio Processing: DSP - 48KHz - 56bits    LINE INPUT: XLR    LINE OUTPUT: XLR    RMS POWER: 1000W + 1000W    MAX POWER: 1900W + 1900W    POWER VOLTAGE: AC115V &amp; AC230V    Nominal Impedance: 8OHM+8OHM    MAX SPL: 131dB / 138dB(Peak)    Sensitivity: 96dB(1W/1m)  <b>F.ACTIVE WEDGE MONITOR</b>    4 units    Type: 2-way Configuration With Active Filter    Woofer: Neodymium    Frequency Range(-10dB): 80Hz-18KHz    Amplifier: Class D    Line Input: XLR or 1/4"Jack    Line Output: XLR    RMS Power: 500W    Max Power: 1000W    Nominal impedance: 4 OHM    Sensitivity: 96dB (1W/1m)    MAX SPL: 123dB / 132dB(Peak)    Power Voltage: AC100V - AC240V  <b>G.SPEAKERS</b>    2 UNITS    Woofer: 15", 3" VC    Amplifier: Class D Bi-AMP    Frequency Range: 45Hz-20KHz    DSP: With DSP processor and 5 modes can be selected    Max SPL: 125dB / 137dB(Peak)    RMS Power: 1500W    Max Power: 3000W  <b>h.GRAPHIC EQUALIZER</b>    2 units    Switchable boost/cut ranges of ±6 or ±15 Db    Electronically balanced/unbalanced inputs    Servo-balanced/unbalanced outputs    RF-filtered inputs and outputs    XLR, Barrier Strip, and 1/4" TRS connectors-    12dB/+12dB input gain range18dB/octave 40Hz    Bessel low-cut filter    Chassis/signal ground lift capability    Internal power supply transformer    Power-off hardwire relay bypass with 2-second power-up delay    Dual Channel    31 band graphic  <b>I.DUAL WIRELESS MICROPHONE</b>    3 sets  <b>RECEIVER</b></p>	<p>Low-pass filter: 70Hz-120Hz Low-pass filter select switch    Phase: Phase switch 0-180°    Audio Processing: DSP - 48KHz - 56bits    LINE INPUT: XLR    LINE OUTPUT: XLR    RMS POWER: 1000W + 1000W    MAX POWER: 1900W + 1900W    POWER VOLTAGE: AC115V &amp; AC230V    Nominal Impedance: 8OHM+8OHM    MAX SPL: 131dB / 138dB(Peak)    Sensitivity: 96dB(1W/1m)  <b>F.ACTIVE WEDGE MONITOR</b>    4 units    Type: 2-way Configuration With Active Filter    Woofer: Neodymium    Frequency Range(-10dB): 80Hz-18KHz    Amplifier: Class D    Line Input: XLR or 1/4"Jack    Line Output: XLR    RMS Power: 500W    Max Power: 1000W    Nominal impedance: 4 OHM    Sensitivity: 96dB (1W/1m)    MAX SPL: 123dB / 132dB(Peak)    Power Voltage: AC100V - AC240V  <b>G.SPEAKERS</b>    2 UNITS    Woofer: 15", 3" VC    Amplifier: Class D Bi-AMP    Frequency Range: 45Hz-20KHz    DSP: With DSP processor and 5 modes can be selected    Max SPL: 125dB / 137dB(Peak)    RMS Power: 1500W    Max Power: 3000W  <b>h.GRAPHIC EQUALIZER</b>    2 units    Switchable boost/cut ranges of ±6 or ±15 Db    Electronically balanced/unbalanced inputs    Servo-balanced/unbalanced outputs    RF-filtered inputs and outputs    XLR, Barrier Strip, and 1/4" TRS connectors-    12dB/+12dB input gain range18dB/octave 40Hz    Bessel low-cut filter    Chassis/signal ground lift capability    Internal power supply transformer    Power-off hardwire relay bypass with 2-second power-up delay    Dual Channel    31 band graphic  <b>I.DUAL WIRELESS MICROPHONE</b>    3 sets  <b>RECEIVER</b></p>
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**BAGONG PILIPINAS**



<p>(Frequency Range): 800~820MHz, 740~760MHz    640~665MHz :Sensitivity): -100dBm for 30dB,    (Image Rejection) : &gt;60dB , Frequency Stability):    +0.005%, (Modulation Mode): FM, (Maximum Deviation Rang): +45KHz, (Audio Frequency Response): 50Hz- 18KHz (+3dB) (S/N Ratio): &gt; 105dB, (Audio Dynamic Range) 100dB    (Operating Temperature) : - 10°C~ 55°C, (Power Supply) : 12-18V DC 1A</p> <p><b>TRANSMITTER</b></p> <p>(Frequency Range): 800~820MHz, 740~760MHz, 640~665MHz, (Harmonic Radiation): &lt; - 63dBm, (Band Width): 20MHz, (Maximum Input Pressure): 130dB SPL, (Current Consumption): &lt;110 mA, (Maximum Transmitter Power): 30mW, (Frequency Range): 50Hz-18KHz(Power Supply): 2x1.5V AA (battery)</p> <p><b>J.ANTENNA DIVIDER</b></p> <p>1 set</p> <p>Provides multi-channel systems using 2 to 4 UHF wireless series or other series of various automatic selection receivers, sharing a pair of antennas to simplify the antenna assembly process and improve reception distance and performance. It adopts the design of high dynamic low noise active components and active feedback steady current bias. It has ultra-low internal distortion characteristics and can be used in multiple channels at the same time to eliminate mixing interference.</p> <p><b>K.LABOR &amp; INSTALLATION MATERIALS</b></p> <p>1 lot</p> <p>THHN#12 for AC Power for Hanging Line Array- Speakers to electrical source , Outlets, Plug, Equipment Rack, XLR/XLR Connectors, Signal Cable for Line array, Mixer, Processor, delayed speakers, subwoofers &amp; monitors, Power Sequencers, Battery &amp; Charger for Wireless Microphone</p> <p>2 Days Technical Training- Sound System Functions &amp; Maintenance</p> <p>Audio Tuning &amp; Testing</p> <p>Must Have Branch/Office in Mindanao for fast technical response</p> <p>1 year warranty on parts</p> <p>Lifetime technical support services</p> <p>Freight on destination (Caraga State University Ampayon Campus)</p> <p>Free on-site delivery</p>	<p>(Frequency Range): 800~820MHz, 740~760MHz    640~665MHz :Sensitivity): -100dBm for 30dB,    (Image Rejection) : &gt;60dB , Frequency Stability):    +0.005%, (Modulation Mode): FM, (Maximum Deviation Rang): +45KHz, (Audio Frequency Response): 50Hz- 18KHz (+3dB) (S/N Ratio): &gt; 105dB, (Audio Dynamic Range) 100dB    (Operating Temperature) : - 10°C~ 55°C, (Power Supply) : 12-18V DC 1A</p> <p><b>TRANSMITTER</b></p> <p>(Frequency Range): 800~820MHz, 740~760MHz, 640~665MHz, (Harmonic Radiation): &lt; - 63dBm, (Band Width): 20MHz, (Maximum Input Pressure): 130dB SPL, (Current Consumption): &lt;110 mA, (Maximum Transmitter Power): 30mW, (Frequency Range): 50Hz-18KHz(Power Supply): 2x1.5V AA (battery)</p> <p><b>J.ANTENNA DIVIDER</b></p> <p>1 set</p> <p>Provides multi-channel systems using 2 to 4 UHF wireless series or other series of various automatic selection receivers, sharing a pair of antennas to simplify the antenna assembly process and improve reception distance and performance. It adopts the design of high dynamic low noise active components and active feedback steady current bias. It has ultra-low internal distortion characteristics and can be used in multiple channels at the same time to eliminate mixing interference.</p> <p><b>K.LABOR &amp; INSTALLATION MATERIALS</b></p> <p>1 lot</p> <p>THHN#12 for AC Power for Hanging Line Array- Speakers to electrical source, Outlets, Plug, Equipment Rack, XLR/XLR Connectors, Signal Cable for Line array, Mixer, Processor, delayed speakers, subwoofers &amp; monitors, Power Sequencers, Battery &amp; Charger for Wireless Microphone</p> <p>2 Days Technical Training- Sound System Functions &amp; Maintenance</p> <p>Audio Tuning &amp; Testing</p> <p>Must have Service Center in Mindanao for fast technical response</p> <p>1 year warranty on parts</p> <p>Lifetime technical support services</p> <p>Freight on destination (Caraga State University Ampayon Campus)</p> <p>Free on-site delivery</p>
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**Corrections on the posted Public Bidding Document**

## **Checklist of Technical and Financial Documents**

### **1. TECHNICAL COMPONENT ENVELOPE**

***Class "A" Documents***

**Legal Documents**

- (a) Valid PhilGEPS Registration Certificate (Platinum Membership) (all pages);  
**or**
- (b) Registration certificate from Securities and Exchange Commission (SEC), Department of Trade and Industry (DTI) for sole proprietorship, or Cooperative Development Authority (CDA) for cooperatives or its equivalent document,  
**and**
- (c) Mayor's or Business permit issued by the city or municipality where the principal place of business of the prospective bidder is located, or the equivalent document for Exclusive Economic Zones or Areas;  
**and**
- (d) Tax clearance per E.O. No. 398, s. 2005, as finally reviewed and approved by the Bureau of Internal Revenue (BIR).  
**and**
- (e) ~~License to Operate (LTO) issued by PNT-SOSLA~~

**NOTE: Certified copies of the legal documents are being required for submission in compliance with pertinent COA requirements.**

**Technical Documents**

- (f) Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whether similar or not similar in nature and complexity to the contract to be bid (*with inclusion, refer to IB 8*); **and**
- (g) Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents (*with inclusion, refer to IB 8*); **and**



- (h) Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission;  
**or**  
Original copy of Notarized Bid Securing Declaration; **and**
- (i) Conformity with the Technical Specifications, which may include production/delivery schedule, manpower requirements, and/or after-sales/parts, if applicable; **and**
- (j) Original duly signed Omnibus Sworn Statement (OSS);  
**and** if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, or cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

**~~Additional Requirements: CPPB Resolution No. 24, 2007, dated 28 September 2007~~**

- ~~(k) Years of Experience~~  
~~(l) Liquidity of the Contractor~~  
~~(m) Company Profile and Organizational Structure~~  
~~(n) No. of Licensed Firearms~~  
~~(o) No. and Kind of Licensed Communication Devices~~  
~~(p) No. and Kind of Motor Powered Vehicles~~  
~~(r) No. of Licensed Guards~~  
~~(s) Security Plan~~  
~~(t) Recruitment and Selection Criteria~~  
~~(u) Completeness of Uniforms and Other Paraphernalia~~

\*\*\*\*\* **NOTHING FOLLOWS** \*\*\*\*\*

For information and guidance to all concerned.

**REMOVED**

**MICHELLE V. JAPITANA D. Eng.**  
BAC Chairperson