



**UNIVERSITY OF SCIENCE AND TECHNOLOGY OF SOUTHERN PHILIPPINES**  
 Alubijid | Balubal | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon | Villanueva

**OFFICE OF THE BIDS AND AWARDS COMMITTEE II**

## BID FORM

**NAME OF THE PROJECT :** PROPOSED PROCUREMENT OF THE SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF INTERACTIVE AUDIO VISUAL AND CONFERENCE SYSTEM FOR THE OFFICE OF THE UNIVERSITY AND BOARD SECRETARY CY 2024

**APPROVED BUDGET OF CONTRACT :** ONE MILLION TWO HUNDRED THOUSAND PESOS AND 00/100 (P1,200,000.00) ONLY

**BRIEF DESCRIPTION :** SUPPLY, DELIVERY, INSTALLATION AND COMMISSIONING OF INTERACTIVE AUDIO VISUAL AND CONFERENCE SYSTEM FOR THE OFFICE OF THE UNIVERSITY AND BOARD SECRETARY CY 2024

**SOURCE OF FUND :** IGI CY 2024

**CONTRACT DURATION :** NINETY (90) CALENDAR DAYS (ONE LOT)

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
1	<b>INTERACTIVE AUDIO VISUAL AND CONFERENCE SYSTEM</b>  A. Branded Interactive Flat Panel with Mobile Stand - Brightness: 400cd/m2 Contrast Ratio 5000:1 - Panel: Type TFT - Backlight: Direct LED (DLED) - Resolution: 4K UHD (3840*2160) - Aspect: Ratio 16:9 - Response Rate: 6m/s - Refreshing Frequency: 60Hz - Viewing Angle: 178°(H), 178°(V) - Backlight Life Time:50,000 hrs - Display Colors: 10bit(1.07B) - Glass: 4mm Anti-Glare Tempered Glass with Zero Bonding (MOHS 7) - Touch Technology: Infrared - Touch Point: 20-point touch/writing - Touch Resolution: 32768 x 32768 - Response Rate: <4ms(single touch <6ms(max touch inputs) - Touch Accuracy: ≤1mm - Recognition: Finger or passive stylus - Writing Height: 2mm - Minimum Touch Object: 2mm - Supported O.S.: HID Support & Win10/Win8/Win7/Mac OS/Android/Chrome OS/Linux - CPU Framework : Quad-core A55 - CPU Processor Speed : 2.0GHz - GPU: Mali G52MP2 - RAM: 4GB DDR4 - ROM : 32GB EMMC - OS Version: Android 11.0 - Portd: 3 x USB3.0 (Android&PC) , HDMI IN 2.0 x 1, Touch-USB x 1, Type C (USB2.0, Audio&Video, Touch, 5W Power) x 1	1	lot	1,200,000.00	P	P

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	<p>- Input: RJ45 (10/100MB) x 1, HDMI 2.0 (4K@60fps) x 2, VGA x 1, Audio x 1, USB 2.0 (Android) x 1, USB 3.0 (Android) x 1, AV x 1, RS232 x 1, YPBPR x 1, Touch-USB x 1</p> <p>- Output: HDMI 2.0 (4K@60fps) x1, COAX SPDIF x 1, AV x 1, Earphones x 1</p> <p>- Speakers: 15W*2</p> <p>- Light Sensor</p> <p>- Temperature Monitor</p> <p>- WiFi &amp; Hotspot: 802.11 a/b/g/n/ac embedded (2.4G/5G Dual Module)</p> <p>- Bluetooth: 5.0</p> <p><b>B. Branded 180 Degrees Panoramic 4K Plug and Play Video Solution Camera with Bracket</b></p> <p>- Number of cameras: 3</p> <p>- Type of camera: Panoramic multi-camera array</p> <p>- Camera resolution: 13 megapixels</p> <p>- Video Conferencing Room: Up to 6x lossless digital zoom</p> <p>- Field of view Horizontal: 180°, Vertical: 54°</p> <p>- Resolution: Panoramic-4K: 3840 x 1080 @ 30fps</p> <p>- Intelligent Video Conferencing Room</p> <p>- Intelligent Meeting Space</p> <p>- Dynamic Composition: Single-stream Dynamic Composition (BYOD + MTR + ZR), Multi-stream Dynamic Composition</p> <p>- Virtual Director, Vivid HDR</p> <p>- Speakers: 2 x 2" (50mm) woofers, 2 x 3/4" (20mm) tweeters</p> <p>- Speaker frequency range: 80Hz - 20000Hz</p> <p>- Number of speakers: 4</p> <p>- Automatic Speaker Detection</p> <p>- Audio codecs supported: SBC</p> <p>- Microphone type: 8 microphone beamforming array - certified for rooms up to 4.5m x 6m</p> <p>- Number of microphones: 8</p> <p>- Microphone sensitivity: -37dBFS</p> <p>- Microphone frequency range: 100Hz - 8000H</p> <p>- Connectivity: USB-A, USB-C, Ethernet (RJ45) for connection to supported management systems, Wi-Fi Supported USB versions USB 2.0, USB 3.0 Bluetooth Low Energy (LE audio)</p> <p><b>C. Branded 12 Channel Analog Mixer</b></p> <p>- Computer Connectivity: USB (2 x 2)</p> <p>- Faders: 9 x 60mm Throw</p> <p>- Inputs-Mic Preamps: 4 x XLR</p> <p>- Phantom Power: 4</p> <p>- Inputs-Line: 8 x TRS, 2 x RCA</p> <p>- Outputs - Main: 2 x XLR, 2 x TRS</p> <p>- Outputs-Other: 2 x RCA</p> <p>- Aux Sends: 1 x Pre, 1 x Post</p> <p>- Send/Return I/O: 2 x 1/4" (Send), 4 x 1/4" (Return)</p> <p>- Busses/Groups: 2 x Bus</p> <p>- Headphones: 1 x 1/4"</p> <p>- USB: 1 x Type B</p> <p>- EQ Bands: 3-band</p> <p>- Rackmountable: Yes (Includes Rack Ears)</p> <p><b>D. Branded 2 Channel Power Amplifier with 6 X 5 1/4" Surface Speakers</b></p> <p>- Power Amplifier Features: 2-channel PA power amplifier. 100 V or 70 V output for PA installations. Highly efficient and reliable class D amplifier thanks to low maintenance protection circuits.</p> <p>- Safe and easily connectable euroblock</p>					

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	<p>connectors</p> <ul style="list-style-type: none"> <li>- Excellent sound quality and little noise.</li> <li>- Power: 2 x 540 W Peak (2 channels), 1 x 600 W Peak (1 channel)   2 x 135 W RMS (2 channels), 1 x 150 W RMS (1 channel)</li> <li>- Response: 20-20,000 Hz</li> <li>- Gain: 40 dB</li> <li>- Distorsion: THD+N: &lt;0.04% (1 kHz)</li> <li>- S/N Ratio: &gt;95 dB</li> <li>- Crosstalk: &gt;85 dB</li> <li>- Dynamic Range: &gt;105 dBA</li> <li>- Damping Factor: &gt;200 (1 kHz, 8 Ω)</li> <li>- Inputs: 2 balanced/unbalanced aux lines, euroblock, 20,000 Ω/10,000 Ω, 0.9-1.1 V RMS 1 emergency/test, euroblock, 1 V RMS (0 dBV)</li> <li>- Outputs: 1 GPIO fault indicator output, 5 V DC, euroblock</li> <li>- Functions: Forced ventilation with variable speed according to the temperature LED power, protection, priority and peak signal indicators Emergency input priority/contact closure test, euroblock Disabling/mute via contact closure, euroblock</li> <li>- Protection: Overload, short circuit, open circuit, temperature, ultrasound and radio frequency</li> <li>- Controls: Volume for each channel 100/70 V switch on rear panel</li> <li>- Impedance: 100 and 70 V lines, euroblock</li> </ul> <p>E. Speaker</p> <ul style="list-style-type: none"> <li>- Features: Low impedance loudspeaker with 100 V line transformer. Prepared for outdoor use, waterproof and rustproof materials.</li> <li>- Power: 80 W max., 40 W RMS</li> <li>- Speakers: 1 x 5 1/4" polypropylene woofer 1 x 1" tweeter</li> <li>- Response: 80-20,000 Hz</li> <li>- Impedance: 40 W RMS@100 V (250 Ω) 20 W RMS@100 V (500 Ω) 10 W RMS@100 V (1,000 Ω) 5 W RMS@100 V (2,000 Ω)</li> <li>- Low Z: 8 Ω</li> <li>- Sensitivity: 88.3 dB @ 1 W/1 m</li> <li>- Maximum Sound Pressure: 102.2 dB @ máx. W/1 m</li> <li>- Coverage Angle: H/V: 200°/200°@500Hz, 135°/135°@1kHz, 100°/120°@2kHz, 60°/80°@4kHz (-6 dB)</li> <li>- Protections: IP-66 in compliance with EN 60529 IEC 60068-2-11 Enviromental Test (Salt Mist)</li> <li>- Material: ABS (UV resistance) Aluminum mesh grille, with powder-coated finish Weather-resistant mount Stainless steel screws</li> <li>- Switch: W selector in high Z and low Z</li> <li>- Connectors: Euroblock in and out for cable 0.25-2.5 mm<sup>2</sup> cross section</li> <li>- Temperature Range: -10°C ~ 60°C</li> <li>- Colour: Black (RAL 9005)</li> <li>- Dimensions: Loudspeaker: 162 x 263 x 147 mm depth</li> <li>- Accessories: Adjustable mounting bracket ± 60° in all directions. Steel safety cable</li> </ul> <p>F. 1 x 2 Port HDMI + USB 3.0 Female Wall Face Plate Panel Outlet Socket Extender, White</p> <p>G. Video Conferencing Room License, 1-Year</p> <p>H. Branded 22-Channel Digital Mixing Console</p> <ul style="list-style-type: none"> <li>- Mixing Capacity Input Channels Mix Buses</li> </ul>					

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	<p>Matrices Stereo Buses FX Buses Cue Buses General specifications I/O Connectors Analog Input Analog Output Dante Network USB TO HOST USB TO DEVICE Phones DC User Interface Recording &amp; Playback PC/ Mac USB storage device Sampling frequency rate Signal delay Frequency response Total harmonic distortion Hum &amp; noise level Equivalent input noise Residual output noise Dynamic range Crosstalk Power requirements Power consumption Dimensions WHD Net weight Included Accessories Operating temperature Storage temperature DM3-D DM3 Standard Outline</p> <p>Mixing Capacity Input Channels: 16 mono + 1 stereo + 2 FX return</p> <ul style="list-style-type: none"> <li>- Mix Buses: 6</li> <li>- Matrices: 2 (Supports Input to Matrix)</li> <li>- Stereo Buses: 1</li> <li>- FX Buses: 2</li> <li>- Cue Buses: 1</li> <li>- Analog Input: 16 Mic/Line (12 XLR + 4 XLR/TRS Phones Combo)</li> <li>- Analog Output: 8 (XLR)</li> <li>- Dante: 2 (etherCON: Primary/Secondary)</li> <li>- Network: 1 (RJ-45)</li> <li>- USB TO HOST: 1 (USB Type-B, USB2.0)</li> <li>- USB TO DEVICE: 1 (USB Type-A)</li> <li>- Phones: 1 (TRS Phones)</li> <li>- DC: 1 (XLR 4pin, DC power IN)</li> <li>- User Interface: 1 x 9-inch multi-touch screen, 9 x faders (8 channels + 1 main), 1 x "Touch and Turn" rotary encoder</li> <li>- Recording and Playback: Recording 18 track, Playback 18 track</li> <li>- USB storage device: Recording 2 track (USB hard disk / SSD / flash memory), Playback 2 track (USB hard disk / SSD / flash memory)</li> <li>- Sampling frequency rate: 96 kHz / 48 kHz 96 kHz / 48 kHz</li> <li>- Signal delay: Less than 1.3 ms, (CH INPUT to OMNI OUT, Fs=96 kHz)</li> <li>- Frequency response: +0.5, -1.0 dB 20 Hz-20 kHz, reference to the nominal output level@1 kHz, INPUT to OMNI OUT</li> <li>- Total harmonic distortion: Less than 0.01 % 20 Hz - 20 kHz@+4 dBu into 10 kΩ, INPUT to OMNI OUT, Input Gain = Min*1</li> <li>- Hum and Noise: -126 dBu typ., Input Gain= Max.</li> <li>- Residual output noise: -84 dBu, ST main off*2</li> <li>- Dynamic range: 110 dB typ., DA Converter, 106 dB typ., INPUT to OMNI OUT, Input Gain=Min.</li> <li>- Crosstalk: -100 dB, adjacent INPUT/OMNI OUT channels, Input Gain= Min. @1 kHz*3</li> <li>- Power requirements: DC24 V/2.5 A, PA-L500 (100 V-240 V, 50 Hz/60 Hz)</li> <li>- Accessories: Owner's Manual, Power Adapter, Download Information</li> </ul> <p>I. Branded Bluetooth Party, Portable Speaker 800w with Branded 2 Pair UHF Wireless Microphone (Compatible with Bluetooth Speaker) with Rechargeable Battery and Charger with 2 Sets of Spare Rechargeable Battery</p> <p>J. Branded WiFi Receiver</p> <ul style="list-style-type: none"> <li>- Ethernet: 100/1000 Mbps, auto-switching, autonegotiating, autodiscovery, full/half duplex,</li> </ul>					



ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	<p>TCP/IP, UDP/IP, DHCP, SSL, TLS2, SSH, SFTP (SSH File Transfer Protocol), IEEE 802.1x, Active Directory authentication, HTTPS web browser setup and XiO Cloud service, 802.3af compliant</p> <ul style="list-style-type: none"> <li>- AirMedia : Via Ethernet: IPv4, mDNS, TLS, AES1; Via wireless access point: IEEE 802.11/b/g/n/ac/ax, 2.4 GHz or 5 GHz Bluetooth Communications: Bluetooth version 5.0</li> <li>- USB Device: USB 3.0 for computer console (installer setup and firmware update)</li> <li>- HDMI Output: HDCP 2.2, EDID, CEC; Supports management of HDCP and EDID</li> <li>- Video: Input Signal Types: AirMedia; Simultaneous display of up to four sources with AirMedia Canvas</li> <li>- Maximum Input Resolutions: AirMedia presentation: 1920x1080@30Hz (1080p30); AirMedia Connect Adapter: 3840x2160@30Hz (4K30)</li> <li>- HDMI Output Signal Types HDMI (DVI compatible3)</li> <li>- HDMI Output Resolutions: 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60), 3840x2160@30Hz (2160p30), 3840x2160@50Hz (2160p50), 3840x2160@60Hz (2160p60)</li> <li>- Audio: Input Signal Types: AirMedia</li> <li>- Output Signal Type : HDMI</li> <li>- Input/Output Format: 2 channel LPCM</li> <li>- Video Frame Rate: Up to 30 fps, audio supported</li> <li>- Output Resolutions: 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x720@50Hz (720p50), 1280x720@60Hz (720p60), 1280x800@60Hz, 1366x768@60Hz, 1440x900@60Hz, 1600x900@60Hz, 1600x1200@60Hz, 1680x1050@60Hz, 1920x1080@50Hz (1080p50), 1920x1080@60Hz (1080p60)</li> <li>- Bitrate Peak 0.25 to 8.5 Mbps, variable depending on content complexity</li> <li>- Bitrate Average 1.4 Mbps typical</li> </ul> <p>K. Branded Controller Laptop</p> <ul style="list-style-type: none"> <li>- 15.6in IPS FHD 144Hz, CORE i5-12500H   512GB SSD   16GB DDR4   GeForce RTX 3050   Win11</li> </ul> <p>Other Inclusion:</p> <ul style="list-style-type: none"> <li>- complete cables, wires, power outlets and other necessary accessories. Include professional services for design, drawings, cables, installation and commissioning, project management, and 1-day training.</li> <li>- VAT Inclusive.</li> </ul>					
<b>TOTAL: P</b>						

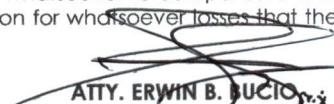
Total Bid Price in Figure: \_\_\_\_\_

Total Bid Price in Words: \_\_\_\_\_

Name and Signature of Bidder: \_\_\_\_\_

All bid proposals must be sealed in envelopes properly labeled and submitted to this University on or before the deadline of submission of bids, **SEPTEMBER 30, 2024, 01:30 P.M.** at the Procurement Services, 2nd Level Gymnasium Lobby, University of Science and Technology of Southern Philippines, C.M. Recto Ave., Lapanan Cagayan de Oro City.

The University of Science and Technology of Southern Philippines assumes no responsibility whatsoever to compensate or indemnify bidders for any expenses incurred in the preparation of the bid. The USTsP neither assumes any obligation for whatsoever losses that the bidders may incur in the preparation on their bids nor guarantee that an award will be made.

  
**ATTY. ERWIN B. BUCIO, Jr.**  
 BAC II Chairperson