

# University of Science and Technology of Southern Philippines

Alubijid | Cagayan de Oro | Claveria | Jasaan | Oroquieta | Panaon

## BID FORM

NAME OF THE PROJECT : **Proposed Procurement for the Supply, Delivery, Installation and Commissioning of Public Address System for USTP-CDO**

APPROVED BUDGET OF CONTRACT : **ONE MILLION FIVE HUNDRED NINETY TWO THOUSAND TWO HUNDRED SIXTY SIX PESOS AND 50/100 (P1,592,266.50) ONLY**

BRIEF DESCRIPTION : **Supply, Delivery, Installation and Commissioning of Public Address System for USTP-CDO**

SOURCE OF FUND : **INCOME CY 2020**

CONTRACT DURATION : **One Hundred Twenty (120) Calendar Days**

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
<b>Speaker System:</b>						
1	<p><b>Professional Two-way full range main system</b>            System type: Self powered 12" ,two-way, bass-reflex            Maximum SPL Output: 135 dB peak            Frequency Range (-10 dB): Main: 44.8 Hz - 20 kHz Monitor: 44.8 Hz - 20 kHz            Frequency Response (+3 dB): Main: 55.7 Hz - 20 kHz Monitor: 56.5 Hz - 20 kHz            Input Connectors: 2 x Balanced XLR / 1/4 inch input, 2 x unbalanced RCA input            Input Impedance: 20K Ohms (balanced), 10K Ohms (unbalanced)            Limit: Yellow LED indicates peak output has been reached and dsp limiter is acting            Power : Blue indicates system has power and ready to pass audio            EQ: User selectable presets for Main or Monitor position, Advanced EQ, setting available using Wi-Fi and PRX Connect application, Dynamic Control (Input): dbx Type IV™ limiter circuit            Crossover Frequency: 1.85 kHz            Design: Highly efficient Class-D amplifier            Power Rating: 1500W (750W x 2)            AC Power Input: 100V-240V ~ 50/60 Hz            LF Driver: 1 x JBL 272G 305 mm(12 in) woofer, 1 x JBL 2408H-2 37.5 mm (1.5 in) annular polymer diaphragm, neodymium compression driver            Coverage Pattern: 90° x 50° nominal            Directivity Index (DI): 10.2 dB            Directivity Factor (Q): 10.4            Enclosure: Asymmetrical, 18 mm, plywood            Suspension / Mountaing: Dual 36 mm pole socket,12 x M10 Suspension Points            Transport: 1 x injection molded handle with backing cup            Finish: Obsidian Duraflex™ finish            Grille: Powder coated, Obsidian, 16 guage perforated steel with acoustical transparent black cloth backing.            Dimensions (H x W x D): 599 mm x 385 mm x341 (23.1 in x15.1 in x 13.4 in)</p>	4	units	74,990.00		
2	<p><b>Professional Powered Subwoofer</b>            System type: Self Powered 18" subwoofer            Maximum SPL Output: 134 dB peak            Frequency Range (-10 dB): 30 Hz -103 Hz            Frequency Response (+3 dB): 35 Hz -87 Hz            Input Connector: Two Balanced female XLR/ 1/4" combo connector            Input Impedance: 20K Ohms (balanced)            Signal indicators: Limit: Yellow LED indicates peak output has been reached and dsp limiter is acting            Signal: Green LED indicates signal present            Power: Blue indicates system has power and ready            Dynamic Control (Input): dbx Type IV™ limiter circuit            System Low Pass: 80 Hz</p>	2	units	110,990.00		

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	<p>Loop out Crossover Frequency: 80HzdIGITAL 24db/octave Linkwitz-Riley Filter</p> <p>Design: Highly efficient Class-D amplifier</p> <p>Power Rating: 1500W</p> <p>AC Power Input: 100V - 240V ~ 50/60 Hz</p> <p>LF Driver: 1 x JBL 2278G 460 mm (18 in) woofer</p> <p>Enclosure: Rectangular, 18mm , birch-poplar mix</p> <p>Transport: 2 x injection molded handles with backing cup</p> <p>Finish: Obsidian DuraFlex™ finish</p> <p>Grille: Powder coated, Obsidian, 16 gauge perforated steel with acoustical transparent black cloth backing.</p> <p>Dimensions (H x W x D): 692 mm x 523 mm 724 mm (27.26 in x20.6 in x 28.5 in)</p>					
3	<p><b>Professional Two-way floor monitor</b></p> <p>System Type: Self Powered 12", two-way, bass-reflex</p> <p>Maximun SPL Ouput: 135 dB peak</p> <p>Frequency Range (-10 dB): Main: 44.8 Hz - 20 kHz Monitor: 44.8 Hz - 20 kHz</p> <p>Frequency Response (+3 dB): Main: 55.7 Hz -20 kHz Monitor: 56.6 Hz -20 kHz</p> <p>Input Connectors: 2 x Balanced XLR / 1/4 inch input, 2 x unbalanced RCA input</p> <p>Input Impedance: 20K Ohms (balanced), 10K Ohms (unbalanced)</p> <p>Signal Indicator, Limit: Yellow LED indicates peak output has been reachd and dsp limiter in acting</p> <p>Signal: Green LED indicates signal present</p> <p>Power: Blue indicates system has power and ready to pass audio</p> <p>EQ: User selectable presets for Main or Monitor position, Advenced EQ, setting available using Wi-Fi and PRX Connect application</p> <p>Dynamic Control (Input): dbx Type IV limiter circuit</p> <p>Crossover Frequency: 1.85 kHz</p> <p>Design: Highly efficient Class-D amplifier</p> <p>Power Rating: 1500W (750W x 2)</p> <p>AC Power Inpu: 100V -240V ~ 50/60 Hz</p> <p>LF Driver: mm (12 in) woofer</p> <p>HF Driver: 37.5mm (1.5 in) annular polymer, diaphragm, neodymium compression driver</p> <p>Coverage Pattern: 90° x 50° nominal</p> <p>Directivity Index (DI): 10.2 dB</p> <p>Directivity Factor (Q): 10.4</p> <p>Enclosure: Asymmetrical, 18 mm, plywood</p> <p>Suspension / Mounting: Dual 36 mm pole socket, 12 x M10 Suspension Points</p> <p>Transport: 1 x injection molded handle with backing cup</p> <p>Fiinish: Obsidian DuraFlex™ Finish</p> <p>Grille: Powder Coated, Obsidian, 16 gauge perforated steel with acoustical transparent black cloth backing.</p> <p>Dimensions (H x W x D): 599 mm x 38 mm x 341 mm (23.6in x15.1 x13.4 in)</p>	2	units	74,990.00		
<b>Mixing Console:</b>						
4	<p>Professional 24Ch. Audio Mixer</p> <p>24 mono channels</p> <p>2 dual stereo inputs with 4-band EO</p> <p>Nuerik mic XLR</p> <p>Nuerik 1/4 jacks</p> <p>Channel insert</p> <p>Super wide gain 'DouPre' mic line input</p> <p>4-band EQ with 2 swept mids and in/out switch</p> <p>Illuminated mute</p> <p>Sound image pan</p> <p>Illuminated PFL &amp; peak warning indicator</p> <p>ALPS 100mm faders</p> <p>6 auxiliary sends (2 pre, 2 post, 2 pre/post)</p> <p>4 sub groups fed from each channel</p> <p>Allinputs with level control</p> <p>All inputs with level control</p> <p>12 bar meters</p> <p>L, R and M main mix outputs</p> <p>2 matrix sections available; can send output to USB</p>	1	unit	116,990.00		

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	Individual channel 48V phantom power Direct output on every mono channel Peak and signal indication every channel Configurable USB stereo audio in/out Master level controls in all outputs Easy to use layout - all connections and controls on top surface					
<b>Processor:</b>						
5	<b>Professional Stereo Equalizer</b> 1/3-octave Constant Q frequency bands Switchable boost/cut ranges of +/-12dB 12dB/octave 50Hz low-cut filter Front panel bypass switch +/-12dB input gain range 4- segment LED ladders for monitoring output level XLR and TRS input and outputs Frequency response of <10Hz to > 50kHz Dynamic range of greater than 108dB Weight: 6.2 lbs. Dimensions: 3.5" x 6" x 19"	2	units	15,990.00		
6	<b>Professional Active Crossover</b> Number of Channel: 2 Modes: 2-way (Stereo), 3-way (Stereo) 4-way(Mono) Filter Types: Linkwitz-Riley Filters: 24dB/octave Crossover Frequencies - Stereo: 45Hz-960Hz/450Hz-9.6kHz Crossover Frequencies - Mono: 45Hz-960Hz/450Hz-9.6kHz Inputs: 2 x XLR Outputs: 6 x XLR Rack Spaces : 1U Height: 1.75" Depth: 6.9" Width: 19" Weight : 4 lbs.	1	unit	16,590.00		
7	<b>Professional Speaker Management system</b> Input: (2) line inputs. (1) RTA Mic input Input Connector: (2) Female XLR line inputs . (1) Female XLR RTA input Input Type: Electronically balanced/RF filtered Input Impedance: >50 kohm A/D Converter: dbx Type IV™ Conversion system CMRR: >45dB Mic Preamp Phantom Power: +15VDC (RTA) Mic Preamp Equivalent Input Noise (EIN): < -177dB, 22HZ-22KHz, 150 ohm (RTA) Output: (6) Line Outputs Outputs Connectors: Male XLR Output Type: Electronically balanced/RF filtered Output Impedance: 120 Ω Max Output: +20dBu A/D Dynamic Range: 112 dB A-weighted, 110 dB unweighted Type IV Dynamic Range: 123 dB with transient materials, A weighted, 22 kHz BW; 121 dB with transient material, unweighted, 22kHz BW; 115 dB typical with program material, A weighted, 22 kHz BW Input Delay length: 100ms Alignment Delay: 10ms per channel (60ms total) Sample Rate: 48kHz Dynamic Range: >110 dB A-weighted, >107 dB unweighted THD+Noise: 0.003% typical at +4dBu, 1kHz, 0dB input gain Frequency Response: 20Hz-20kHz, +/-0.5dB Interchannel Crosstalk: < -110 dB, -120 dB typical (input-to-output: <-100 dB) Operating Voltage: 100-120VAC 50/60 Hz - EU: 220-240 VAC 50/60 Hz Power Consumption: 22 W Unit Weight: 5.25 lbs. (2.4kg) Shipping Weight : 6.75 lbs. (3.1kg) Dimensions: 1.75" (H) x 5.75" (D) x 19" (W), 4.4cm (H) x 14.6cm (D) x 48.26cm D/A Dynamic Range: 112 dB A-weighted, 110 dB unweighted	1	unit	37,690.00		

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
8	<b>Branded Effects Processor</b> Presents (Factory/User): 128/128 Digital Effects (reverb, delay, chorus, etc): Rvrb; chrs; dly; flng; rtry;ptch Simultaneous Effects: 3 Programmable Wet/Dry/Mix: Yes Compare/Bypass: Y/Y Maximum Delay Time: 1,300 ms Maximum Pitch Shift Range (octaves): $\hat{A}\pm 1$ octave MIDI Real-Time Control: Yes Simultaneous MIDI Controls: 2 Discrete Programming Channels: 2 ADC/DAC: 18-bit Overload Warning: 18-seg LED; clip light Inputs: (2) 1/4" Outputs: (2) 1/4"	1	unit	21,390.00		
9	<b>Microphones</b> <b>Professional Dynamic Microphone</b> Type: Dynamic (moving coil) Frequency Response: 20 to 15,000Hz Polar Pattern: Unidirectional (cardioid), rotationally symmetrical about microphone axis, uniform with frequency	6	units			
	<b>Professional UHF Wireless Microphone</b> SYSTEM FEATURES Auto Frequency Selection • Locates a clear channel instantly Auto Transmitter Setup • Infrared Link Automatically synchronizes the transmitter and receiver Shure's patented Audio Referencing Companding • Delivers crystal-clear audio transmission, far superior to conventional wireless technology RECEIVER FEATURES • Detachable 1/4 wave antennas • 1/4" and XLR audio output • Backlit LCD • Rack-mount hardware included • 1/4" and XLR audio output • Frequency and power lockout • Volume control on rear of unit • Rugged metal construction HANDHELD TRANSMITTER FEATURE • Choice of handheld microphone • Timed backlit LCD • Frequency and power lockout • 2 AA batteries (included) provide 8 hours of continuous use • 100m (300 ft) operating range • Battery fuel gauge	2	sets			
	<b>Professional Wireless w/Micro Headworn</b> SYSTEM FEATURES Auto Frequency Selection • Locates a clear channel instantly Auto Transmitter Setup • Infrared link automatically synchronizes the transmitter and receiver Shure's patented Audio Reference Companding • Delivers crystal-clear audio transmission, far superior to conventional wireless technology RECEIVER FEATURES • Detachable 1/4 wave antennas • 1/4" and XLR audio output • Backlit LCD • Rack-mount hardware included • 1/4" and XLR audio output • Frequency and power lockout • Volume control on rear of unit • Rugged metal construction BODYPACK TRANSMITTER FEATURE • Choice of headworn microphone • Timed backlit LCD	1	sets			

ITEM NO.	DESCRIPTION/SPECIFICATIONS	QTY	UNIT	USTP APPROVED UNIT PRICE	UNIT PRICE	AMOUNT
	<ul style="list-style-type: none"> <li>•Frequency and power lockout</li> <li>•2 AA batteries (included) provide 8 hours of continuous use</li> <li>•100m (300 ft.) Operating range</li> <li>•Battery fuel gauge</li> </ul>					
10	<b>Microphone Accessories</b>	1	lot	182,610.00		
	<p><b>24+8 snake cable set 32 ch. 50 M</b>            Number of sends: 24 XLR            Number of returns: 8 XLR            length: 50 meters            Multi pair cable and utilizes finely stranded OFC            Each channel in the cable is individually shielded with aluminum foil tape            Fanouts are number coded with the groups            With metal cable bales at the fanout            Male XLR connectors are with metal housing and gold contacts            Female XLR connectors are with solder cups, black metal housing and gold contacts</p>	1	set			
	<p><b>Headphone</b>            Sensitivity: 105 dB            Maximum Input Power: 500 mW            Frequency Response: 10 Hz - 22 kHz            Weight: 9.6 oz (272 g)            Cable Length: 3 meters (9.84 ft)            Cable Style: detachable coiled oxygen-free copper            Plug: Gold-plated 1/8" (3.5 mm) stereo mini jack            Impedance: 44 Ω</p>	1	unit			
	<p><b>Gravity Microphone stand</b>            Product type: Stands and Tripods            Type: Microphone Stands            Tubing Materials: steel            Tubing Colour: Black            Tubing surface: Powder coated            Min. height: 1030 mm            Max. height: 1690 mm            Transport length: 1050 mm            Height adjustment: Yes            Base type: Tripod            Base material: Zinc die-cast            Boom model: 2-point adjustment            Boom length: 790 mm            Interchangeable rings: 1 x 25 mm , 2 x 15 mm , 4 x 20 mm            Black ring pack included: Yes            Weight: 2,7 kg</p>	4	units			
	<p><b>XLR Connectors</b>            Unique cage design of female / male contact for low contact resistance and high integrity            Female / male contact incorporates a solder barrier to prevent solder running into the contact mating area            Female / male connector with improved solid metal latch which is larger and easier to handle            Additional group spring contacts for better shell ground continuity            Improved chuck type strain relief provides higher pull-out force and makes assembly easier and faster            Boot with polyurethane gland gives high protection to cable bending stresses            Colored rings and boots available for coding or identification            Sleek and ergonomic design - valuable and handy            Rugged zinc diecast shell, longlasting and dependable            Internal thread on shell is well protected against any damage            Branded with unique hologram - guarantees genuine and authentic Nuetrak product</p>	30	pairs			
	<p><b>Balanced Mic cable</b>            100 M            Very low capacitance (60 pF/m)            Extremely flexible            Conductor : stranded bare copper, 28 x 0,10mm            Cross section: 0,22 mm<sup>2</sup></p>	3	rolls			

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	Outer jacket: PVC, matt Overall diameter: 6,15 mm Colour: Black Cable Cross-Section: 6.1 Category: Professionel Cable Type: Microphone Cable Steath: PVC Shielding: Spiral Shieldin					
	<b>PL55 Plug Mono</b> Extra slim 1/4" plug for highest packing density Robust diecast shell in stylish design Proven chuck type strain relief for reliable cable retention Sleek design for best handling convenience Precision machined one-piece contacts - avoid hook up of tip contact	12	pcs			
	<b>PL55 Plug Stereo</b> Extra slim 1/4: for highest packing density Robust diecast shell in stylish design Proven chuck type strain relief for cable relieble cable retention Sleek for best handling convenience Precision machined one-piece contacts - avoid hook uo of tip contact	10	pcs			
	<b>BTB Standard F-case</b> ATA wood flight Rack Case, 17 nch deep with casters 9mm plywood contruction with PVC exterior Recessed twist latches and spring loaded rubber gripped handles 3.2mm thick front and rear rack rails 4 fixed, heavy duty 4 inches casters, 2 of which are locking Tongue and groove extruded aluminum valance Stackable	2	units			
11	<b>Power Sequencer Controller and AVR's</b>	1	lot	48,570.00		
	<b>Power Sequencer Controller</b> 8 Channel Output + 2 Channel Front Ouput, 16A per Channel Big Digital Volmeter display for Easy Voltage Monitoring	1	unit			
	<b>AVR 15KVA Dual X-former</b> Stabilizing precision 3% ; Frequency 50Hz~60Hz; Voltage regulating > 10V/S; Temperature -50C~+40C; Winding Temperature rise <60C; Comparative humidity <60%; Wave distortion <1.0%; Efficiency >95%; Power factor > .09; Input voltage -140~260V; Rate output voltage - 220V ; Rate Output 67A; Current Volume (mm) 495x420x800; Heft (kg) 60; Analog Meter; Serno Motor	1	unit			
	<b>AVR 2000W LED Digital meter</b> Input voltage: 150V -250V Output voltage: 220V +-3% Phase: single Frequency: 50/60HZ Power Factor: better than 95% (input voltage 180V, output Voltage 220V Power output: 2KVA Cooling system : Convection cooled Control System: DC Serno motor Style: stand alone Dielectri strength: Tested at AC 16500v for 1 min	1	unit			
12	<b>Sound System Electrical Accessories:</b>	1	lot	109,475.00		
	Breaker 60A single phase	1	unit			
	Breaker 30A single phase	2	units			
	Breaker 10A single phase	1	unit			
	THHN #8 AC wire	2	rolls			
	THHN #10 AC wire	4	rolls			
	THHN #12 AC wire	1	roll			
	PVC Pipe for snak cable	20	pcs			
	PVC Pipe Elbow for snake cable	10	pcs			
	PVC Pipe for Electrical	40	pcs			
	PVC Pipe Elbow for Electrical	20	pcs			
13	<b>Installation and Engineering Work</b>	1	lot	144,751.50		
					<b>TOTAL:</b>	<b>P</b>

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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, **June 01, 2020, 02:00 P.M.** at the Procurement Services, 2nd Level Gymnasium Lobby, University of Science and Technology of Southern Philippines, C.M. Recto Ave., Lapasan 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.



**ENGR. ALEX L. MAUREAL**  
BAC Chairperson