PHILIPPINE INSTITUTE FOR DEVELOPMENT STUDIES
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REQUEST FOR QUOTATION

Date: September 24, 2024
Reference No (PR No.): 2024-314

To All Interested Bidders:

This is to request for quotation on the PIDS procurement requirement enumerated hereunder. If you are interested and, in a position, to furnish the same, we shall be glad to have your best price, terms and conditions of delivery, submitted not later than **September 30, 2024 (10:00 AM)** addressed to the *Procurement Management Division of the Administrative and Finance Department* at the abovementioned address. PIDS reserves the right to reject any and all bids, declare failure of bidding, or not award the contract under the conditions specified in Section 41 of the 2016 Revised IRR of RA 9184.

The price quotation/s, to be denominated in Philippine peso, **shall include all applicable taxes***, duties, and/or levies payable.*

Very truly yours,

July R. Suing
CAO, Procurement Management Division

Item	Qty	UOM	Articles/Description	Unit Cost	Total Cost
1	1	unit	**Streaming Audio-Video (AV) Mixer** Note: Pls See Attached Technical Specification ABC – **PhP550,000.00**		
Delivery Period: Within Thirty (30) Days upon receipt of Purchase Order					
Requirements: • Valid Mayor's/Business Permit • PhilGEPS Registration No. (*if* **PhilGEPS Platinum Certificate** *is provided, Mayor's/Business Permit is no longer required*) • Latest Income/ Business Tax Returns • Omnibus Sworn Statement					

The price and details of the above offer are certified correct:

Name of Firm (*Bidder*)	Signature over Printed Name *of Bidder's Representative*
Address	Business Permit No.
Telephone *and/or Mobile No.*	Tax Identification *Number (TIN)*
Email Address	PhilGEPS Registration Number

Note: PIDS is evaluating its supplier's performance based on the quality of services rendered or goods delivered, timeliness of delivery, customer/after sales service and overall quality of service.

Streaming AV Mixer Technical Specifications – 1 Unit

Video	
Video Processing	4:2:2 (Y/Pb/Pr), 10-bit
Number of Video Channels	4 channels

Video Input Formats	**HDMI 4K IN:**
	• 2160p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz
	• 1080p/120 Hz, 119.88 Hz, 60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz
	• 1080i/59.94 Hz, 50 Hz
	• 720p/60 Hz, 59.94 Hz, 50 Hz
	• 2560x1440/60Hz, 120Hz (Conforms to VESA-DMT)
	   o HDCP 1.4, 2.2 supported.
	   o Conforms to CTA-861-F
	   o Color Gamut: Rec.709, Rec.2020
	   o Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG

Video Output Formats	**HDMI 4K OUT:**
	• 2160p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz, 25 Hz, 24 Hz, 23.98 Hz
	• 1080p/60 Hz, 59.94 Hz, 50 Hz, 30 Hz, 29.97 Hz
	   o HDCP 1.4, 2.2 supported
	   o Conforms to CTA-861-F
	   o Color Gamut: Rec.709, Rec.2020
	   o Dynamic Range: SDR, HDR PQ (HDR10), HDR HLG
	
	• **HDMI HD OUT:**
	  1280 x 720/60 Hz
	   o HDCP 1.4 supported.
	   o Conforms to CTA-861-F
	   o Color Gamut: Rec.709
	   o Dynamic Range: SDR
	
	4K STREAMING:
	• 960 x 540, 1280 x 720, 1920 x 1080, 2560 x 1440, 3840 x 2160
	   o Frame Rate (--2560 x 1440): 25 Hz, 29.97 Hz, 30 Hz, 50 Hz, 59.94 Hz, 60 Hz.
	   o Frame Rate (3840 x 2160): 25 Hz, 29.97 Hz, 30 Hz.
	   o Color Gamut: Rec.709
	   o Dynamic Range: SDR
	   o Conforms to USB Video Class

Still Image	• Bitmap File (.bmp) Maximum 3840 x 2160 pixels, 24-bit color, uncompressed.
	• JPEG File (.jpg, .jpeg) Maximum 3840 x 2160 pixels, 24-bit color
	• PNG File (.png) Maximum 3840 x 2160 pixels, 24-bit color
	   o It can be stored up to 8 files in the internal memory.
	   o PNG alpha channel supported

Video Effects	• Transition: Cut, Mix, Wipe (11 patterns)
	• Composition: Background, Layer 1 (PinP + Key)(*1), Layer 2 (PinP + Key) (*1), DSK (*2), Logo (*3)
	• Other: Multi-View, Output Fade, Output Freeze, Output Capture, Still Image playback, Test pattern output
	   o 1 Chrominance Key, Luminance Key
	   o 2 Chrominance Key, Luminance Key, still image alpha channel
	   o 3 Chrominance Key, Luminance Key, still image alpha channel, for 4K streaming only. Maximum size is 1920 x 1080.

Audio	
Audio Processing	Sample rate: 24 bits, 48 kHz
Number of Audio Channels	• 14 Channels o MIC x6, LINE x2, HDMI, USB
Audio Formats	• HDMI 4K IN: Linear PCM, 24 bits, 48 kHz, 2 ch • HDMI 4K OUT: Linear PCM, 24 bits, 48 kHz, 2 ch • 4K STREAMING (Input and Output): Linear PCM, 16 bits, 48 kHz, 2 ch
Audio Effects	• Channel Effects: Auto Gain, High pass filter, Anti-feedback, Noise Gate, De-esser, Compressor, 4-Band PEQ, Delay, Auto Mixing

	• Master Effects: Reverb, Compressor/Limiter, Loudness Auto Gain Control, 15-band GEQ, Delay
	• Others: Output fade, Test tone output
Common Section:	
External Media	USB flash drive
Other Functions	• Scene Memory (64 types) • Panel Lock Function • EDID Emulator • Menu language (English)
Connectors:	

Video Input Connectors	• HDMI 4K IN 1--3, 4-1--4-4: HDMI type A (HDMI 2.0) x 7
	  o HDCP 1.4, 2.2 Supported
	  o Multi-format Supported

Video Output Connectors	• HDMI 4K OUT 1--2: HDMI type A (HDMI 2.0) x 2
	  o HDCP 1.4, 2.2 Supported
	  o Multi-format Supported
	• HDMI HD OUT: HDMI type A (HDMI 1.4) x 1
	  o HDCP 1.4 Supported
	• 4K STREAMING: USB Type-C (R) (USB 3.2 GEN 2 10 Gbps)
	• 4K STREAMING: USB Type-C (R) (USB 3.1 GEN 2 10 Gbps)

Audio Input Connectors	• Analog:
	  o AUDIO MIC IN 1--4: Combo type (XLR, 1/4-inch TRS phone) balanced, phantom power (DC 48 V, 10 mA Max)
	  o AUDIO MIC IN 5--6: 1/4-inch TRS phone, balanced
	  o AUDIO LINE IN 1--2: RCA phono type
	
	• Digital:
	  o 4K STREAMING: USB Type-C (R)
	  o HDMI 4K IN 1--3, 4-1--4-4: HDMI type A (HDMI 2.0) x 7Analog

Audio Output Connectors	• Analog:
	  o AUDIO OUT MAIN (L, R): XLR type
	  o AUDIO OUT AUX (L, R): RCA phono type
	  o PHONES: Stereo 1/4-inch phone type
	
	• Digital:
	  o 4K STREAMING: USB Type-C (R)
	  o HDMI 4K OUT 1--2: HDMI type A (HDMI 2.0) x 2
	  o HDMI HD OUT: HDMI type A (HDMI 1.4) x 1

Other Connectors	• USB HOST1--2: USB A type • RS-232: 9 pin D-sub type (Male) • LAN: RJ45 type, 100BASE-TX • TALLY: 9 pin D-sub type (Female)
Audio Input/Output Characteristics:	
Nominal Input Level	• AUDIO MIC IN 1--6: -64--+4 dBu (Maximum input level: +24 dBu) • AUDIO LINE IN 1--2: -10 dBu (Maximum input level: +10 dBu)
Input Impedance	• AUDIO MIC IN 1--6: 16 k ohms (phantom power OFF), 8 k ohms (phantom power ON) • AUDIO LINE IN 1--2: 2.7 k ohms
Nominal Output Level	• AUDIO OUT MAIN (L, R): +4 dBu (Maximum output level: +24 dBu) • AUDIO OUT AUX (L, R): -10 dBu (Maximum output level: +10 dBu) • PHONES: 90 mW + 90 mW (32 ohms load)
Output Impedance	• AUDIO OUT MAIN (L, R): 600 ohms • AUDIO OUT AUX (L, R): 1 k ohms • PHONES: 10 ohms

Residual Noise Level (IHF-A, typ.)	• -87 dBu (All faders: Min)
	• -85 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Min)
	• -57 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Max)
	  o Input 150 ohms terminate
	  o Output Connector: AUDIO OUT MAIN (L, R) jacks
	
	• -100 dBu (All faders: Min)

	• -99 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Min)
	• -80 dBu ([MAIN] Fader: Unity, Channel faders: Unity only one MIC 1 channel, gain: Max)
	   ○ Input 150 ohms terminate
	   ○ Output Connector: AUDIO OUT AUX (L, R) jacks

Others:	
Display	7-inch Graphic color LCD 800 x 480 dots (touch screen) x 2
Internal Speaker	Monaural 1 W
Power Supply	AC 115 V, AC 117 V, AC 220 V, AC 230 V, AC 240 V (50/60 Hz)
Power Consumption	115 W
Operating Temperature	• +5 to +40 degrees Celsius • +41 to +104 degrees Fahrenheit
Dimensions	• 436 (W) x 279 (D) x 137 (H) mm • 17-3/16 (W) x 11 (D) x 5-7/16 (H) inches
Weight (excluding Accessories	15 lb / 6.8 kg
Accessories	• Startup Guide • Power Cord
Warranty	• At least 1-year parts and labor, 1-year onsite support on ALL parts of the package, both internal and external. • The service must include phone support during business hours. • A temporary replacement unit must be provided if the unit cannot be repaired within one working day.
Note: Specifications, features, and functions being offered by the bidders will be included in the evaluation of the bid.	

Total estimated price: ₱ 550,000.00/unit

Conforme:

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