



REPUBLIC OF THE PHILIPPINES
DEPARTMENT OF BUDGET AND MANAGEMENT
 GENERAL SOLANO STREET, SAN MIGUEL, MANILA

SUPPLEMENTAL/BID BULLETIN (SBB) NO. 1

This SBB No. 1 dated May 11, 2021 for the Project, “Supply, Delivery, Installation, Fabrication, Testing, and Commissioning of Audio-Visual Equipment,” is issued to clarify, modify or amend items in the Bidding Documents. Accordingly, this shall form an integral part of said Documents.

PARTICULARS				AMENDMENTS/CLARIFICATIONS			
Section VI. Schedule of Requirements				Section VI. Schedule of Requirements			
X X X				X X X			
Item	Description	Quantity	Schedule	Item	Description	Quantity	Schedule
1	The Contractor shall deliver the following equipment and materials in accordance with Section VII. Technical Specifications, including the scope of works stated therein, at the DBM Central Office, Gen. Solano St., San Miguel, Manila:		Within thirty (30) calendar days upon receipt of Notice to Proceed	1	The Contractor shall deliver the following equipment and materials in accordance with Section VII. Technical Specifications, including the scope of works stated therein, at the DBM Central Office, Gen. Solano St., San Miguel, Manila:		Within thirty (30) SIXTY (60) calendar days upon receipt of Notice to Proceed
	a. 15” Passive Loudspeaker	12 units			a. 15” Passive Loudspeaker	12 units	
	b. 8-Channel Compact Mixing System	3 units			b. 8-Channel Compact Mixing System	3 units	
	c. Dual 400 W/CH Power Amplifier	1 unit			c. Dual 400 W/CH Power Amplifier	1 unit	
	d. 31-Band Stereo Graphic Equalizer	1 unit			d. 31-Band Stereo Graphic Equalizer	1 unit	
	e. LCD Projector 4,000lm, XGA	4 units			e. LCD Projector 4,000lm, XGA	4 units	
	f. Multi-Pattern Desktop	2 sets			f. Multi-Pattern Desktop	2 sets	

	Microphone (16 pcs./set)		
g.	15" Powered Loudspeaker	2 units	
h.	Wireless Microphone	3 sets	
Note: All equipment and materials should be brand new.			

XXX

	Microphone (16 pcs./set)		
g.	15" Powered Loudspeaker	2 units	
h.	Wireless Microphone	3 sets	
Note: All equipment and materials should be brand new.			

XXX

Section VII. Technical Specifications

XXXX

Item	Specifications	Quantity
I	EQUIPMENT/MATERIALS REQUIREMENTS	
	x x x	
	a. 15" Passive Loudspeaker <ul style="list-style-type: none"> • 250 Watts – 1000 Watts peak • 44 Hz – 20 kHz frequency range • 56 Hz – 18kHz¹ frequency response • Full-coverage, heavy-duty perforated steel grille, with powder-coat finish 	12 units
	b. 8-Channel Compact Mixing System <ul style="list-style-type: none"> • Channels: 4 + 2 + 2 <ul style="list-style-type: none"> - MIC/Line-Mono: 4 - MIC/Line-Mono/ USB-Stereo (Super Channel): 2 - Line L-R/ CS-IN-Stereo: 2 • Auxiliaries (AUX, MON): Pre/Post Switchable, Pre • MIC Gain (Line -20 dB): +10 to +60 dB • Trim Line/CD (Stereo): -10 to +20 dB • THD, at 1kHz, MBW = 80 kHz 	3 units

Section VII. Technical Specifications

XXXX

Item	Specifications	Quantity
I	EQUIPMENT/MATERIALS REQUIREMENTS	
	x x x	
	a. 15" Passive Loudspeaker <ul style="list-style-type: none"> • 250 Watts – 1000 Watts peak • 41-44 Hz – 18-20 kHz frequency range • 41-56 Hz – 18kHz¹ frequency response • Full-coverage, heavy-duty perforated steel grille, with powder-coat finish 	12 units
	b. 8-Channel Compact Mixing System <ul style="list-style-type: none"> • Channels: 4 + 2 + 2 <ul style="list-style-type: none"> - MIC/Line-Mono: 4 - MIC/Line-Mono/ USB-Stereo (Super Channel): 2 - Line L-R/ CS-IN-Stereo: 2 • Auxiliaries (AUX, MON): Pre/Post Switchable, Pre • MIC Gain (Line -20 dB): +10 to +60 dB • Trim Line/CD (Stereo): -10 to +20 dB • THD, at 1kHz, MBW = 80 kHz 	3 units

	<ul style="list-style-type: none"> • MIC in/out to Master A-L/R outputs, +16dBu, typical <0.005% • Frequency Response, -3dB, ref. 1 kHz • Any input to any Mixer output: 15 Hz to 70 kHz • Crosstalk: 1 kHz • Channel to Channel: < -80 dB • Mute & Standby switch attenuation: > 100 dB • Fader & FX/AUX/MON – Send attenuation: 85 dB • CMRR, MIC input, 1 kHz: > 80 dB • Input Sensitivity, all level controls in max. position <ul style="list-style-type: none"> - MIC: -74 dBu (155 μV) - LINE (Mono): -54 dBu (1.55 mV) - LINE (Stereo): -34dBu (15.5 mV) - CD (Stereo): -34 dBu (15.5 mV) • Maximum Level, Mixing Desk • MIC inputs: +12 dBu • Mono Line inputs: +31 dBu • Stereo Line inputs: +30 dBu • All other inputs: +22 dBu • All other outputs: +22 dBu • Input Impedances: <ul style="list-style-type: none"> - MIC: 2kΩ - CD In: 10kΩ - All other inputs: > 15 kΩ - Output Impedances: <ul style="list-style-type: none"> - Phones: 47Ω - All other outputs: 75Ω (unbalanced), 150Ω (balanced) • Equivalent Input Noise, MIC Input, A-weighted, 150Ω, -130 dBu • Noise, Channel inputs to Master A L/R outputs, A-weighted • Master fader down, -100 dBu • Master fader: 0 dB, Channel fader down: -92 dB 			<ul style="list-style-type: none"> • MIC in/out to Master A L/R outputs, +16dBu, typical <0.005% • Frequency Response, -3dB, ref. 1 kHz • Any input to any Mixer output: 15 Hz to 70 kHz • Crosstalk: 1 kHz • Channel to Channel: < -80 dB • Mute & Standby switch attenuation: > 100 dB • Fader & FX/AUX/MON – Send attenuation: 85 dB • CMRR, MIC input, 1 kHz: > 80 dB • Input Sensitivity, all level controls in max. position <ul style="list-style-type: none"> - MIC: -74 dBu (155 μV) - LINE (Mono): -54 dBu (1.55 mV) - LINE (Stereo): -34dBu (15.5 mV) - CD (Stereo): -34 dBu (15.5 mV) • Maximum Level, Mixing Desk • MIC inputs: +12 dBu • Mono Line inputs: +31 dBu • Stereo Line inputs: +30 dBu • All other inputs: +21/+22 dBu • All other outputs: +21/+22 dBu • Input Impedances: <ul style="list-style-type: none"> - MIC: 2kΩ - CD In: 10kΩ - All other inputs: > 15 kΩ - Output Impedances: <ul style="list-style-type: none"> - Phones: 47Ω - All other outputs: 75Ω (unbalanced), 150Ω (balanced) • Equivalent Input Noise, MIC Input, A-weighted, 150Ω, -130 dBu • Noise, Channel inputs to Master A L/R outputs, A-weighted • Master fader down, -100 dBu • Master fader: 0 dB, Channel fader down: -92 dB 	
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	<ul style="list-style-type: none"> • Master fader: 0 dB, Channel fader: 0 dB, Channel gain unity: -82 dBu • Equalization: <ul style="list-style-type: none"> - LO Shelving: ± 15 dB / 60 Hz - MID Peaking: ± 12 dB / 2.4 kHz - HI Shelving: ± 15 dB / 12 kHz • Master EQ 9-band (63, 125, 250, 500, 1k, 2k, 4k, 6.3k, 12kHz): ± 10 dB / Q=1.5 to 2.5 • Filter • LO-CUT, mono inputs: f=80 Hz, 18 dB/oct. • Display: 128 x 64 pixels, OLED • Effects • Type: Dual Stereo, 24/48-bit multi effects processors • Effects presets: 100 Factory + 20 User, Tap-Delay • Remote Control: Footswitch, MIDI • Digital Audio Interface • Channels: 4 In / 4 Out • AD/DA Conversion: 24-bit • Sampling Rate: 44.1 / 48 / 88.2 / 96 kHz • PC Interface: USB 2.0, Female, Type-B • MIDI Interface: 5-pin DIN connector, In / Out • Protection • Mixer Outputs (Relay Controlled): AUX, MON, MASTER A L/R • Switching Mode Power Supply (μC controlled): Mains Over / Undervoltage • Phantom Power, switchable: 48V DC • Power Requirements (SMPS with auto range mains input): 100V to 240V AC, 50 Hz to 60 Hz • Power Consumption, at 1/8 maximum power, 4Ω, 35W • Safety Class: I 			<ul style="list-style-type: none"> • Master fader: 0 dB, Channel fader: 0 dB, Channel gain unity: -82 dBu • Equalization: <ul style="list-style-type: none"> - LO Shelving: ± 15 dB / 60 Hz - MID Peaking: ± 12 dB / 2.4 kHz - HI Shelving: ± 15 dB / 12 kHz • Master EQ 9-band (63, 125, 250, 500, 1k, 2k, 4k, 6.3k, 12kHz): ± 10 dB / Q=1.5 to 2.5 • Filter • LO-CUT, mono inputs: f=80 Hz, 18 dB/oct. • Display: 128 x 64 pixels, OLED • Effects • Type: Dual Stereo, 24/48-bit multi effects processors • Effects presets: 100 Factory + 20 User, Tap-Delay • Remote Control: Footswitch, MIDI • Digital Audio Interface • Channels: 4 In / 4 Out • AD/DA Conversion: 24-bit • Sampling Rate: 44.1 / 48 / 88.2 / 96 kHz • PC Interface: USB 2.0, Female, Type-B • MIDI Interface: 5-pin DIN connector, In / Out • Protection • Mixer Outputs (Relay Controlled): AUX, MON, MASTER A L/R • Switching Mode Power Supply (μC controlled): Mains Over / Undervoltage • Phantom Power, switchable: 48V DC • Power Requirements (SMPS with auto range mains input): 100V to 240V AC, 50 Hz to 60 Hz • Power Consumption, at 1/8 maximum power, 4Ω, 35W • Safety Class: I 	
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- Ambient Temperature Limits: +5°C to +40°C (40 °F to 105°F)
- Dimensions (W x H x D), mm: 416.9 x 108.6 x 347.8, Rack-mount (7.5 HE): 483.0 x 99.1x 332.6
- Weight:
 - Net Weight: 5.8 kg
 - Shipping Weight: 7.8 kg
- Accessories:
 - RMK-600-3 (Rack Mount Kit for CMS 600-3): F01U214881 (DC-RMK-CMS-3)
 - FS 11 (Footswitch with LED): F01U100598 (DC-FS11)
 - Carrying Bag for CMS 600-3: F01U259015 (DC-BAG-600CMS)

c. Dual 400 W / CH Power Amplifier

- Efficient performance for low impedance or distributed items
- Ideal for sound reinforcement, paging, and life safety
- 400W per channel for 4Ω or 70/100V lines
- Bridged mono out for 860W into 8 Ω
- Compact 2 RU design
- Stepped rear-panel level attenuation
- Selectable 50Hz or 300 Hz high-pass filter
- Thermal protection, peak limiting, turn-on delay
- Phoenix-type inputs and outputs
- Three-stage front-to-rear fans
- Integrated rack ears for direct mounting

	8Ω	4Ω	100V	70V
Rated Output Power – THD <1%, 1 kHz	215 W	430 W	430 W	430 W
Rated Output Power – THD <0.2%, 20 Hz-20 kHz	200 W	400 W	400 W	400 W
Max. Single Channel Output Power – Dynamic Headroom, IHF-A	260 W	520 W	520 W	500 W
Maximum RMS Voltage Swing – THD=1%, 1 kHz	44.7 V	117 V	82 V	

1 unit

- Ambient Temperature Limits: +5°C to +40°C (40 °F to 105°F)
- ~~Dimensions (W x H x D), mm: 416.9 x 108.6 x 347.8, Rack-mount (7.5 HE): 483.0 x 99.1x 332.6~~
- Weight:
 - Net Weight: **MAXIMUM** 5.8 kg
 - Shipping Weight: **MAXIMUM** 7.8 kg
- Accessories:
 - ~~RMK-600-3 (Rack Mount Kit for CMS 600-3): F01U214881 (DC-RMK-CMS-3)~~
 - ~~FS 11 (Footswitch with LED): F01U100598 (DC-FS11)~~
 - ~~Carrying Bag for CMS 600-3: F01U259015 (DC-BAG-600CMS)~~

c. Dual 400 W / CH Power Amplifier

- ~~Efficient performance for low impedance or distributed items~~
- ~~Ideal for sound reinforcement, paging, and life safety~~
- 400W per channel for 4Ω or 70/100V lines
- Bridged mono out for 860W into 8 Ω
- Compact 2 RU design
- Stepped rear-panel level attenuation
- Selectable 50Hz or 300 Hz high-pass filter
- Thermal protection, peak limiting, turn-on delay
- Phoenix-type inputs and outputs
- Three-stage front-to-rear fans
- Integrated rack ears for direct mounting

	8Ω	4Ω	100V	70V
Rated Output Power – THD <1%, 1 kHz	215 W	430 W	430 W	430 W
Rated Output Power – THD <0.2%, 20 Hz-20 kHz	200 W	400 W	400 W	400 W
Max. Single Channel Output Power – Dynamic Headroom, IHF-A	260 W	520 W	520 W	500 W
Maximum RMS Voltage Swing – THD=1%, 1 kHz	44.7 V	117 V	82 V	

1 unit

Voltage Gain @ 1 kHz	34.3 dB	42.2 dB	39.1 dB
Power Bandwidth – THD=1%, ref. 1 kHz, ½ power	45 Hz -> 20 kHz		
Frequency Response (-1dB, ref. 1)	65 Hz – 40 kHz	65 Hz – 20 kHz	
Input Sensitivity @ rated power	0 dBu (775 mV)		
Input Impedance – balanced	> 20kΩ		
Crosstalk – ref. 1 kHz, @ 10% rated	< -75 dB		
THD @ rated power	<0.1%		
IMD-SMPTE – 60 Hz, 7 kHz	<0.1%		
DIM-30 – 3.15 kHz, 15 kHz	<0.1%		
Slew Rate	25V/µs	65V/µ	46V/µ
Signal to Noise Ratio (A-weighted)	103 dB		
Damping Factor – 1 kHz	>250		
Power Requirement	120V or 230V, 50 – 60 Hz		
Protections	Audio Limiters, Hi-Temperature, Peak Current Limiter, Power On Delay		
Cooling	Front-to-Rear		
Safety Class	I		
Dimensions (HxWxD)	8.81 x 48.3 x 40.6 cm (3.5” x 19.0” x 16.0”)		
Weight	26 kg (57.27 lbs)		

d. Band Stereo Graphic Equalizer

- Number of Bands: 2 x 31-band
- Boost/Cut Range: ±12 dB, ±6 dB
- Low Cut Filter: Variable 10 Hz-400 Hz
- High Cut Filter: Variable 2.5 kHz-30 kHz
- Analog Inputs: 2 x XLR, 2 x ¼” TRS
- Analog Outputs: 2 x XLR, 2 x ¼” TRS, 1 x XLR (sub out)

1 unit

e. LCD Projector 4,000lm, XGA

- XGA Resolution
- Color Light Output: 4,000lm / 2,500lm
- White Light Output: 4,000lm – 4,500lm
- Flexible 1.6x Zoom Lens
- With built-in speaker

4 units

f. Multi-Pattern Desktop Microphone

- Connector Type: 3-pin XLR
- Diameter (Max): 0.25” (6.4mm)
- Element: Dual Condenser (back-electret)
- Finish: Non-reflective camera black
- Frequency response (-3dB): 50-20,000 Hz
- Impedance, Low-Z balanced: 200Ω
- Mic-Type: Gooseneck
- Open Circuit Voltage: 5.6 mV/Pascal

2 sets

Voltage Gain @ 1 kHz	34.3 dB	42.2 dB	39.1 dB
Power Bandwidth – THD=1%, ref. 1 kHz, ½ power	45 Hz -> 20 kHz		
Frequency Response (-1dB, ref. 1)	65 Hz – 40 kHz	65 Hz – 20 kHz	
Input Sensitivity @ rated power	0 dBu (775 mV)		
Input Impedance – balanced	> 20kΩ		
Crosstalk – ref. 1 kHz, @ 10% rated	< -75 dB		
THD @ rated power	<0.1%		
IMD-SMPTE – 60 Hz, 7 kHz	<0.1%		
DIM-30 – 3.15 kHz, 15 kHz	<0.1%		
Slew Rate	25V/µs	65V/µ	46V/µ
Signal to Noise Ratio (A-weighted)	103 dB		
Damping Factor – 1 kHz	>250		
Power Requirement	120V or 230V, 50 – 60 Hz		
Protections	Audio Limiters, Hi-Temperature, Peak Current Limiter, Power On Delay		
Cooling	Front-to-Rear		
Safety Class	I		
Dimensions (HxWxD)	8.81 x 48.3 x 40.6 cm (3.5” x 19.0” x 16.0”)		
Weight	MAXIMUM 26 kg (57.27 lbs)		

d. Band Stereo Graphic Equalizer

- Number of Bands: 2 x 31-band
- Boost/Cut Range: ±12 dB, ±6 dB
- Low Cut Filter: Variable 10 Hz-400 Hz
- High Cut Filter: Variable 2.5 kHz-~~30~~ kHz
- Analog Inputs: 2 x XLR, 2 x ¼” TRS
- Analog Outputs: 2 x XLR, 2 x ¼” TRS, 1 x XLR (sub out)

1 unit

e. LCD Projector 4,000lm, XGA

- XGA Resolution
- Color Light Output: 4,000lm / 2,500lm
- White Light Output: 4,000lm – 4,500lm
- Flexible 1.6x Zoom Lens
- With built-in speaker

4 units

f. Multi-Pattern Desktop Microphone

- Connector Type: 3-pin XLR
- ~~Diameter (Max): 0.25” (6.4mm)~~
- Element: Dual Condenser (back-electret)
- Finish: ~~Non-reflective camera black~~
- Frequency response (-3dB): 50-20,000 Hz
- Impedance, ~~Low-Z~~ balanced: 200Ω
- Mic-Type: Gooseneck
- Open Circuit Voltage: 5.6 mV/Pascal

2 sets

	<ul style="list-style-type: none"> • Polar Pattern: Omni, Cardioid, S-cardioid & H-cardioid • Power Requirement: 12-52V DC • Wired <p>g. 15" Powered Loudspeaker</p> <ul style="list-style-type: none"> • Frequency Response: 55Hz – 18 kHz • Frequency Range: 42 Hz – 20 kHz • Maximum SPL: 127 dB • Coverage (Horizontal x Vertical): 90° x 60° • Power Rating: 1000 Watts • LF Transducer: EVS-15L, 380 mm (15in) Woofer • HF Transducer: DH-1K • Connectors: (2) XLR/TRS Combo Jack, (1) 3.5mm Input, and (1) XLR link Output • Enclosure: Polypropylene • Grille: 18 Gauge Steel with Black Powder Coat <p>h. Wireless Microphone</p> <ul style="list-style-type: none"> • Receiver Type: Synthesized PLL • Frequency Range (RF): <ul style="list-style-type: none"> - A Band 618-634 MHz - B Band 678 – 694 MHz - C Band 516 – 532 MHz - E Band 850 – 865 MHz • Number of Channels: 32 • Modulation: ± 40 kHz • Diversity: True Antenna • RF Sensitivity: < 1.0 µV for 12 dB SINAD • Image Rejection: > 55 dB • Squelch: Tone Code plus Amplitude • Power Requirements: 12-16V DC, 500mA max • Operating Temperature: 5°C to 45°C (41°F to 113°F) • Dimensions: <ul style="list-style-type: none"> - 43mm H x 206mm W x 210 mm D - (1.72in H x 7.8 in W x 8.0 in D) 	2 units			<ul style="list-style-type: none"> • Polar Pattern: Omni/ Cardioid/S-cardioid—&—H-cardioid • Power Requirement: 12-52V DC • Wired <p>g. 15" Powered Loudspeaker</p> <ul style="list-style-type: none"> • Frequency Response: 39-55Hz – 18-20 kHz • Frequency Range: 42-50 Hz – 20 kHz • Maximum SPL: 127 dB • Coverage (Horizontal x Vertical): 90° x 60° • Power Rating: 1000 Watts • LF Transducer: EVS-15L, 380 mm (15in) Woofer • HF Transducer: DH-1K • Connectors: (2) XLR/TRS Combo Jack, (1) 3.5mm Input, and (1) XLR link Output • Enclosure: Polypropylene • Grille: 18 Gauge Steel with Black Powder Coat <p>h. Wireless Microphone</p> <ul style="list-style-type: none"> • Receiver Type: Synthesized PLL • Frequency Range (RF): 400 MHz AND ABOVE <ul style="list-style-type: none"> - A Band 618-634 MHz - B Band 678 – 694 MHz - C Band 516 – 532 MHz - E Band 850 – 865 MHz • Number of Channels: 32 • Modulation: ± 40 kHz • Diversity: True Antenna • RF Sensitivity: < 1.0 µV for 12 dB SINAD • Image Rejection: > 55 dB • Squelch: Tone Code plus Amplitude • Power Requirements: 12-18 16V DC, 500mA max • Operating Temperature: 5°C to 45°C (41°F to 113°F) • Dimensions: <ul style="list-style-type: none"> - 43mm H x 206mm W x 210 mm D - (1.72in H x 7.8 in W x 8.0 in D) 	2 units
		3 sets				3 sets

	<ul style="list-style-type: none"> • Audio Parameters: <ul style="list-style-type: none"> - Frequency Response: 80 Hz – 18 kHz ± 2 dB - Balanced Output: 20 dBV (max @ 40 kHz deviation) - Unbalanced Output: Adjustable 8 mV to 0.755V RMS - Distortion: < 1.0%, 0.4% typical - Ref 1 kHz, 40 kHz deviation - Signal-to-Noise Ratio: > 100 dB A-Weighted - Dynamic Range: > 95 dB • BP-300 and HT-300 Transmitter Specifications: <ul style="list-style-type: none"> - Radiated Output: 8mW typical - Back Lit LCD Display: Channel, Frequency, Mute - Battery Level Indicator - Microphone Head: Electro-Voice PL22 Cardioid Dynamic - Standard Lavalier - Electro-Voice ULM18 Uni-Directional - Condenser - TA4F Connector Wiring: Pin 1: Ground, Pin 2: Mic Input, Pin 3: +5V bias, Pin 4: +5V thru 2.2kΩ - Power Requirements: two AA batteries - Battery Life (Typical): >14 hours with AA Alkaline Typical - Bodypack Antenna: Flexible external ¼ wave - Handheld Antenna: Internal Propriety - Dimensions (Body Pack): 88 mm H x 66mm W x 23 mm - (3.3 in. H x 2.6 in 0.89 in D) 				<ul style="list-style-type: none"> • Audio Parameters: <ul style="list-style-type: none"> - Frequency Response: 50-80 Hz – 15-18 kHz ± 2 dB - Balanced Output: 20 dBV (max @ 40 kHz deviation) - Unbalanced Output: Adjustable 8 mV to 0.755V RMS - Distortion: < 1.0%, 0.4% typical - Ref 1 kHz, 40 kHz deviation - Signal-to-Noise Ratio: > 100 dB A-Weighted - Dynamic Range: > 95 dB • BP 300 and HT 300 BP 300 and HT 300 Transmitter Specifications: <ul style="list-style-type: none"> - Radiated Output: 8-10 mW typical - Back Lit LCD Display: Channel, Frequency, Mute - Battery Level Indicator - Microphone Head: Electro Voice PL22 Cardioid Dynamic - Standard Lavalier - Electro Voice ULM18 Uni-Directional - Condenser - TA4F Connector Wiring: Pin 1: Ground, Pin 2: Mic Input, Pin 3: +5V bias, Pin 4: +5V thru 2.2kΩ - Power Requirements: two AA batteries - Battery Life (Typical): >1014 hours with AA Alkaline Typical - Bodypack Antenna: Flexible external ¼ wave - Handheld Antenna: Internal Propriety - Dimensions (Body Pack): 88 mm H x 66mm W x 23 mm - (3.3 in. H x 2.6 in 0.89 in D) D) 	
XXXX		XXXX				

	<p><u>Attached are the following documents which should be used as part of the Bidding Documents to be submitted by the bidders:</u></p> <ol style="list-style-type: none">1. Revised Section VI. Schedule of Requirements; and2. Revised Section VII. Technical Specifications.
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Other matters:

- The “No Contact Rule” shall be strictly observed. Bidders are not allowed to call or talk to any member of the Bids and Awards Committee, Technical Working Group or Secretariat effective May 18, 2021 right after the opening of bids.
- For guidance and information of all concerned.

JANET B. ABUEL

Undersecretary

Chairperson, DBM-BAC

Section VI. Schedule of Requirements (Revised)

The delivery schedule stipulates hereafter the date of delivery to the project site.

Item	Description	Quantity	Schedule
1	The Contractor shall deliver the following equipment and materials in accordance with Section VII. Technical Specifications, including the scope of works stated therein, at the DBM Central Office, Gen. Solano St., San Miguel, Manila:		Within sixty (60) calendar days upon receipt of Notice to Proceed
	a. 15" Passive Loudspeaker	12 units	
	b. 8-Channel Compact Mixing System	3 units	
	c. Dual 400 W/CH Power Amplifier	1 unit	
	d. 31-Band Stereo Graphic Equalizer	1 unit	
	e. LCD Projector 4,000lm, XGA	4 units	
	f. Desktop Microphone (16 pcs./set)	2 sets	
	g. 15" Powered Loudspeaker	2 units	
	h. Wireless Microphone	3 sets	
	Note: All equipment and materials should be brand new.		
2	<p>Warranty:</p> <p>The warranty periods are as follows:</p> <p>a. Parts and labor from authorized service centers with global repair coverage</p> <p>b. Installation/Workmanship</p> <p>c. Response time to act on the notice for the repair and replacement of defective parts/units and for technical assistance/support</p>		<p>Three (3) years from the date of acceptance by the Administrative Service (AS)</p> <p>One (1) year from the date of acceptance by the AS</p> <p>Within twenty-four (24) hours upon receipt of written or verbal notice from the AS</p>

3	Submission of Warranty Certificate by the Supplier		Within three (3) working days from the date of acceptance by the AS
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NOTES:

- * The performance of the obligations under the Contract shall not go beyond the validity of the appropriation for the Project.
- ** Negative COVID-19 test results (i.e., RT-PCR, Antigen, or Saliva tests) of the winning bidder’s personnel/workers are required before the start of the delivery of goods and services. Subsequent tests may be requested by the AS-General Services Division (GSD) from the winning bidder depending on the extent of the surge of COVID-19 cases.

Moreover, minimum health standards and protocols will be required during contract implementation (e.g., wearing of proper personal protective equipment/clothing/supplies).

All costs pertaining to the foregoing requirements shall be shouldered by the winning bidder.

I hereby certify to comply and deliver all the above requirements.

Name of Company/Bidder

Signature Over Printed Name of Representative

Date

	<ul style="list-style-type: none"> • All other inputs: > 15 kΩ • Output Impedances: • Phones: 47Ω • All other outputs: 75Ω (unbalanced), 150Ω (balanced) • Equivalent Input Noise, MIC Input, A-weighted, 150Ω, -130 dBu • Noise, Channel inputs to Master A L/R outputs, A-weighted • Master fader down, -100 dBu • Master fader: 0 dB, Channel fader down: -92 dB • Master fader: 0 dB, Channel fader: 0 dB, Channel gain unity: -82 dBu • EQ 9-band • Filter • LO-CUT, mono inputs: f=80 Hz, 18 dB/oct. • Effects • Type: Dual Stereo, 24/48-bit multi effects processors • Effects presets: 100 Factory + 20 User, Tap-Delay • Remote Control: Footswitch, MIDI • Digital Audio Interface • Channels: 4 In / 4 Out • AD/DA Conversion: 24-bit • Sampling Rate: 44.1 / 48 / 88.2 / 96 kHz • PC Interface: USB 2.0, Female, Type-B • MIDI Interface: 5-pin DIN connector, In / Out • Protection • Mixer Outputs (Relay Controlled): AUX, MON, MASTER A L/R • Switching Mode Power Supply (μC controlled): Mains Over / Undervoltage • Phantom Power, switchable: 48V DC • Power Requirements (SMPS with auto range mains input): 100V to 240V AC, 50 Hz to 60 Hz • Power Consumption, at 1/8 maximum power, 4Ω, 35W • Safety Class: I • Ambient Temperature Limits: +5°C to +40°C (40 °F to 105°F) • Weight: <ul style="list-style-type: none"> - Net Weight: maximum 5.8 kg - Shipping Weight: maximum 7.8 kg • Accessories: <ul style="list-style-type: none"> - Rack Mount Kit - Footswitch with LED - Carrying Bag <p>c. Dual 400 W / CH Power Amplifier</p> <ul style="list-style-type: none"> • 400W per channel for 4Ω or 70/100V lines 	1 unit	
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- Bridged mono out for 860W into 8 Ω
- Compact 2 RU design
- Stepped rear-panel level attenuation
- Selectable 50Hz or 300 Hz high-pass filter
- Thermal protection, peak limiting, turn-on delay
- Phoenix-type inputs and outputs
- Three-stage front-to-rear fans
- Integrated rack ears for direct mounting

	8 Ω	4 Ω	100V	70V
Rated Output Power – THD <1%, 1 kHz	215 W	430 W	430 W	430 W
Rated Output Power – THD <0.2%, 20 Hz-20 kHz	200 W	400 W	400 W	400 W
Max. Single Channel Output Power – Dynamic Headroom, IHF-A	260 W	520 W	520 W	500 W
Maximum RMS Voltage Swing – THD=1%, 1 kHz	44.7 V		117 V	82 V
Voltage Gain @ 1 kHz	34.3 dB		42.2dB	39.1dB
Power Bandwidth – THD=1%, ref. 1 kHz, ½ power	45 Hz – > 20 kHz			
Frequency Response (-1dB, ref. 1 kHz/1 W)	65 Hz – 40 kHz		65 Hz – 20 kHz	
Input Sensitivity @ rated power	0 dBu (775 mV)			
Input Impedance – balanced	> 20k Ω			
Crosstalk – ref. 1 kHz, @ 10% rated power	< -75 dB			
THD @ rated power	<0.1%			
IMD-SMPTE – 60 Hz, 7 kHz	<0.1%			
DIM-30 – 3.15 kHz, 15 kHz	<0.1%			
Slew Rate	25V/ μ s	65V/ μ s	46V/ μ s	
Signal to Noise Ratio (A-weighted)	103 dB			
Damping Factor – 1 kHz	>250		-	
Power Requirement	120V or 230V, 50 – 60 Hz			
Protections	Audio Limiters, Hi-Temperature, Peak Current Limiter, Power On Delay			
Cooling	Front-to-Rear			
Safety Class	I			
Weight	Maximum 26 kg			

d. Band Stereo Graphic Equalizer

- Number of Bands: 2 x 31-band
- Boost/Cut Range: \pm 12 dB, \pm 6 dB
- Low Cut Filter: Variable 10 Hz-400 Hz
- High Cut Filter: Variable 2.5 kHz-40 kHz
- Analog Inputs: 2 x XLR, 2 x ¼” TRS
- Analog Outputs: 2 x XLR, 2 x ¼” TRS, 1 x XLR (sub out)

e. LCD Projector 4,000lm, XGA

- XGA Resolution
- Color Light Output: 4,000lm / 2,500lm
- White Light Output: 4,000lm – 4,500lm

1 unit

4 units

	<ul style="list-style-type: none"> • Flexible 1.6x Zoom Lens • With built-in speaker <p>f. Desktop Microphone</p> <ul style="list-style-type: none"> • Connector Type: 3-pin XLR • Element: Dual Condenser • Finish: Black • Frequency response: 50-20,000 Hz • Impedance: 200Ω • Mic-Type: Gooseneck • Open Circuit Voltage: 5.6 mV/Pascal • Polar Pattern: Omni/ Cardioid/S-Cardioid • Power Requirement: 12-52V DC • Wired <p>g. 15” Powered Loudspeaker</p> <ul style="list-style-type: none"> • Frequency Response: 39-55Hz – 18-20 kHz • Frequency Range: 42-50 Hz – 20 kHz • Maximum SPL: 127 dB • Coverage (Horizontal x Vertical): 90° x 60° • Power Rating: 1000 Watts • Connectors: (2) XLR/TRS Combo Jack, (1) 3.5mm Input, and (1) XLR link Output • Grille: 18 Gauge Steel with Black Powder Coat <p>h. Wireless Microphone</p> <ul style="list-style-type: none"> • Receiver Type: Synthesized PLL • Frequency Range (RF): 400 MHz and above • Number of Channels: 32 • Modulation: ± 40 kHz • Diversity: True Antenna • RF Sensitivity: < 1.0 μV for 12 dB SINAD • Image Rejection: > 55 dB • Squelch: Tone Code plus Amplitude • Power Requirements: 12-18V DC, 500mA max • Operating Temperature: 5°C to 45°C (41°F to 113°F) • Audio Parameters: <ul style="list-style-type: none"> - Frequency Response: 50-80 Hz – 15-18 kHz ± 2 dB - Balanced Output: 20 dbV (max @ 40 kHz deviation) - Unbalanced Output: Adjustable 8 mV to 0.755V RMS - Distortion: < 1.0%, 0.4% typical - Ref 1 kHz, 40 kHz deviation - Signal-to-Noise Ratio: > 100 dB A-Weighted - Dynamic Range: > 95 dB 	<p>2 sets</p> <p>2 units</p> <p>3 sets</p>	
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	<ul style="list-style-type: none"> • Transmitter Specifications: <ul style="list-style-type: none"> - Radiated Output: 8-10 mW typical - Back Lit LCD Display: Channel, Frequency, Mute - Battery Level Indicator - Cardioid Dynamic - Standard Lavalier - Uni-Directional - Condenser - Power Requirements: two AA batteries - Battery Life (Typical): >10 hours with AA Alkaline Typical - Bodypack Antenna: Flexible external ¼ wave - Handheld Antenna: Internal Propriety 		
II	SCOPE OF WORKS		
	<p>The Supplier shall perform the following:</p> <ul style="list-style-type: none"> • Mobilization • Supply and deliver all the required equipment and materials, in accordance with the prescribed specifications • Supply, fabricate, and install accessories and components necessary for the project, such as, but not limited to, projector's holder, speaker bracket, and compact mixing system rack • Install the identified equipment to areas determined by the Administrative Service (AS). All roughing-in, fittings, and cables shall be concealed or embedded into the walls or ceilings • Restore/repaint all affected areas, as may be applicable • Execute all other works identified by the AS as necessary for the completion of the project • Testing and commissioning • Demobilization 		
III	GENERAL CONDITIONS		
	<ul style="list-style-type: none"> • The Supplier shall visit the site to familiarize with its existing conditions. • The Supplier shall conduct a pre-implementation meeting with the DBM representatives to discuss the necessary preparations, ideal set-up, and other implementation matters. • The Supplier shall repair/replace the defective parts/equipment of the same or better brand, model features, quality, and functionalities, at no additional cost to the DBM. Mandatory replacement of defective unit with a brand new unit of the same brand or better brand shall be made if not repaired beyond one (1) 		

	<p>month from the time it was reported by the AS, at no additional cost to the DBM.</p> <ul style="list-style-type: none"> • The Supplier shall provide barricades, railings, and/or warning signs, as applicable, during the fabrication and installation works. • Cleaning/clearing of areas (e.g. removing dirt and rubbish, etc.) caused by or as a result of the work done shall be the responsibility of the Supplier. • All rates quoted by the Supplier shall include supervision, manpower, tools, transportation, and other resources and liabilities required for executing the project. • The Supplier shall ensure that its personnel are wearing proper personal protective equipment/clothing/supplies during contract implementation. Negative COVID-19 test results (i.e., RT-PCR, Antigen, or Saliva tests) of the Supplier's personnel/workers are required before the start of the delivery of the project. Subsequent tests may be requested depending on the extent of the surge of COVID-19 cases. All these shall be at no additional cost to the DBM. • The Supplier shall be held liable for: <ul style="list-style-type: none"> - any work-related damages incurred by their staff to any DBM property; and - any work-related accident or illness inflicted by and to their personnel during the project implementation. 		
IV	WARRANTY		
	<p>The warranty periods are as follows:</p> <ul style="list-style-type: none"> • Parts and labor from authorized service centers with global repair coverage – Three (3) years from the date of acceptance by the AS • Installation/workmanship – One (1) year from the date of acceptance by the AS <p>The response time to act on the notice for the repair and replacement of defective parts/units is within twenty-four (24) hours upon receipt of written or verbal notice from the AS.</p> <p>The supplier shall provide technical assistance/support either by telephone call, email, or site visit within twenty-four (24) hours upon receipt of verbal or written notice from the AS.</p>		

Note: The foregoing specifications shall reflect the necessary specifications required to meet the needs of the DBM. Provision of goods with better specifications is acceptable.

I hereby certify to comply with all the above Technical Specifications.

Name of Company/Bidder

Signature Over Printed Name of Representative

Date