



Republic of the Philippines
DEPARTMENT OF SCIENCE AND TECHNOLOGY
Philippine Atmospheric, Geophysical and Astronomical Services
Administration (PAGASA)

04 April 2023

SUPPLEMENTAL / BID BULLETIN

Addendum No. 2023-003-01

Subject: Terms of Reference for the Supply, Delivery, Installation, Testing, Training and Commissioning of the Weather Media Production System / PR No.2023-02-0070

This Bid Bulletin is being issued to provide all prospective bidders the correct Terms of Reference for the project due to inadvertent conversion of documents.

This Supplemental Bid Bulletin shall form an integral part of the said Bidding Documents.

For guidance and information of all participating bidders.

Sgd.

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Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY

**Philippine Atmospheric, Geophysical and Astronomical Services
Administration (PAGASA)**

**TERMS OF REFERENCE
FOR THE SUPPLY, DELIVERY, INSTALLATION, TESTING, TRAINING, AND
COMMISSIONING OF THE WEATHER MEDIA PRODUCTION SYSTEM**

A. BACKGROUND

PAGASA began the video recording of the daily weather forecast updates twice a day and uploaded to YouTube on 5 December 2016. Shortly thereafter, PAGASA also began the live streaming of updates as well as press briefings for tropical cyclones on Facebook.

This project aims to improve the current delivery of PAGASA products and services (weather forecasts, climate outlook forum, astronomy event and others) through the Social Media platform of YouTube and Facebook, by the acquisition of video and audio equipment that conforms to broadcast standards.

B. APPROVED BUDGET FOR THE CONTRACT (ABC)

The Approved Budget for the Contract is Twelve Million pesos (Php 12,000,000.00) inclusive of VAT and all applicable government taxes and permits.

C. BIDDER'S QUALIFICATION

For purposes of determining the Eligibility of prospective bidders to participate in the bidding of this Project, the documentary requirements prescribed under Section 23 of the 2016 Revised Implementing Rules and Regulation (IRR) of RA 9184, and the specific qualification requirements under this Terms of Reference (TOR) must be complied with accordingly.

Additional qualifications:

1. Manufacturer should have at least five (5) years of experience in Audio Video System installations or similar in nature.
2. Local supplier/contractor should be an authorized representative of the manufacturer of the prescribed equipment
3. Local supplier/ contractor should have the capacity to respond to maintenance and warranty services requirement

D. PLACE AND DATE OF DELIVERY

The winning bidder shall supply and deliver the deliverables at PAGASA Weather and Flood Forecasting Center (WFFC) Building for ninety (90 c.d.) calendar days from receipt of the Notice to Proceed (NTP).

E. TECHNICAL SPECIFICATIONS

| Item No. | Quantity | Item Name | Specifications |
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| 1 | 1 unit | Compact Cellular High Efficiency Video Coding (HEVC) Field Unit for On the Go Live Streaming Transmitter with 2 GSM dongles | <p>VIDEO RESOLUTIONS: 4Kp60/50/25/30/24, 1080p50/60/25/30/24, 1080i50/60, 720p50/60, PAL, NTSC</p> <p>VIDEO INTERFACES: 12G/3G/HD/SD-SDI and HDMI 2.0</p> <p>VIDEO ENCODER: H.265/HEVC, H.264, 10-bit/HDR</p> <p>AUDIO ENCODER: AAC-HE/LC, up to 8 audio channels</p> <p>PORTABILITY: Professional-grade cross-shoulder pack, camera mount and belt pack options</p> <p>SIMULTANEOUS BONDING: Up to 6 network links: 2 x internal 4G modems, 2 x external cellular modems (4G Native), internal WiFi and Ethernet</p> <p>EXTERNAL MODEMS: Net 4G/5G with high-efficiency antennas for worldwide support</p> <p>POWER SOURCES: 3 hours internal battery, DC IN: 12V-19V AC/DC adaptor or external battery</p> <p>RESILIENCY AND QUALITY: featuring proprietary algorithms such as automatic Adaptive Bit Rate (ABR), automatic Forward Error Correction (FEC) and other lost packet recovery algorithms</p> <p>INTERFACES: 2 x USB 2.0, micro USB, RJ-45 Ethernet, 3.5mm in/out audio jack, micro-SD card, SIM cards</p> |

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| | | | WIRELESS INTERFACES: WiFi 802.11 a,b,g,n,ac support with internal MIMO antennas 2 x internal 4G modems with high-efficiency antennas for worldwide support |
| 2 | 1 unit | Receiver Server with 4 Outputs includes 23 inches Monitor, USB Keyboard and USB Mouse | FORM FACTOR: 1U rackmount server |
| | | | SOFTWARE: Pre-installed with decoder software |
| | | | VIDEO DECODER: H.264/HEVC |
| | | | CONFIGURATIONS: Single SDI output |
| | | | IP OUTPUTS: RTMP for streaming to CDNs or social media, MPEG-TS, Matrix and NDI |
| | | | RESOLUTIONS: 1080p50/60/25/30/24, 1080i/50/60, 720p50/60/25/30/24, PAL, NTSC |
| | | | HW INTERFACES: 3G/HD/SD-SDI |
| | | | NETWORK INTERFACE: 2 X 1000/100/10 RJ-45 |
| | | | POWER SOURCES: 110-240V 50/60HZ |
| 3 | 3 units | Remotely controllable 1080p Full Network Device Interface (NDI) Pan, Tilt and Zoom (PTZ) Camera w/ 20x Optical Zoom, 16x Digital Zoom | IMAGE SENSOR: 1 / 2.86 inch CMOS 2.2MP |
| | | | LENS: 5.2-104mm |
| | | | OPTICAL ZOOM: 20x |
| | | | MIN. ILLUMINATION: Color: 0.5 lux |
| | | | OPERATING TEMPERATURE: -10 – +50 (°C) |
| | | | VIDEO OUTPUT: NDI/SDI/HDMI/USB2.0(UVC) |
| | | | VIDEO FORMATS: 1080p 60, 59.94, 50, 29.97, 25 - 1080i 60, 59.94, 50 - 720p 60, 59.94, 50 |
| | | | SERIAL PTZ CONTROL: 1x RJ45: RS232/RS422 |
| | | | Power Input: 12v DC, PoE+ (IEEE 802.3at) |
| | | | WEIGHT: 1.0Kg Maximum |
| 4 | 2 units | Remotely controllable 1080p Full NDI PTZ | IMAGE SENSOR: 1 / 2.86 inch CMOS 2.2MP |

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| | | Camera w/ 10x Optical Zoom | <p>LENS: 4.7-47mm</p> <p>OPTICAL ZOOM: 10x</p> <p>MIN. ILLUMINATION: Color: Color: 0.5 lux</p> <p>OPERATING TEMPERATURE: -10 – +50 (°C)</p> <p>VIDEO OUTPUT: NDI/SDI/HDMI/USB2.0</p> <p>VIDEO FORMATS: 1080p 60, 59.94, 50, 29.97, 25, 1080i 60, 59.94, 50, 720p 60, 59.94, 50</p> <p>SERIAL PTZ CONTROL: 1x RJ45: RS232/RS422</p> <p>POWER CONSUMPTION: Min. 11.1W – Max. 15.2W (PTZ move simultaneously)</p> <p>WEIGHT: 1.0Kg Maximum</p> |
| 5 | 2 units | NDI PTZ Camera Controller keyboard | <p>RS 232/ RS422: Baud Rate 2400 / 4800 / 9600 / 19200 / 38400</p> <p>Programmable function buttons: 6</p> <p>Maximum camera control: Max. 255 with multiple protocols including NDI/IP</p> <p>Key/Button illumination: Multi-colour LED</p> <p>Power input: DC 12V, PoE (Power over Ethernet), Power via RS232/RS422 port</p> <p>Operating Temp: 0-40 (°C)</p> |
| 6 | 2 units | Teleprompter with Bluetooth Remote Controller including software | <p>Multi-language Support: English, Dutch, Spanish, Portuguese, Russian, Chinese (Traditional), Chinese (Simplified)</p> <p>Prompter Size (Max): Width: 270mm, Height: 210mm, Depth: 460mm</p> <p>Weight: 1.3 Kg Maximum</p> <p>Operating Temp. Range: 0~40 °C</p> |
| 7 | 2 units | Software application for all-in-one production switcher, | <p>Video Cameras: 4K, HD and SD capable. Support for Webcams and capture cards.</p> |

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| | | graphics, online streamer, recorder, audio mixer and multiviewer | <p>NDI: Send and receive high quality, low latency video and audio on the local network between vMix systems and any NDI compatible sources. See NDI.</p> <p>Video Files: Support for all popular formats including AVI, MP4, H264, MPEG-2, WMV, MOV and MXF.</p> <p>Audio Files: MP3 and WAV.</p> <p>Audio Devices: Mix multiple audio sources such as SoundCards, ASIO Audio Interfaces and capture card audio.</p> <p>Video and Audio PlayLists: Combine multiple video and/or audio files into a single Input Web Browser, RTSP, PowerPoint, Photos, Solid Colour and more.</p> <p>Total Inputs: 1000</p> <p>Maximum Resolution: 4096 x 2160</p> <p>Overlay Channels: 4</p> <p>Instant Replay: 8 Cameras</p> |
| 8 | 2 units | Laptop for the all-in-one software application | <p>Operating System: Windows 11 Home, Windows 11 Pro</p> <p>Processor: Intel® Core™ i7</p> <p>Graphics: Laptop GPU, 80W (95W with Dynamic Boost),4GB GDDR6</p> <p>Display: 17.3-inch,FHD (1920 x 1080) 16:9,anti-glare display, sRGB:62.5%, Adobe:47.34%, Refresh Rate:144Hz, IPS-level, Adaptive-Sync,MUX Switch + Optimus</p> <p>Memory: 16GB DDR5-4800, SO-DIMM x 2 slot, Max Capacity: 32GB</p> <p>Storage: 512GB M.2 NVMe™ PCIe® 3.0 SSD</p> <p>Camera: 720P HD camera</p> <p>Audio: Dolby Atmos, Hi-Res certification, AI noise-canceling technology, Built-in array microphone, 2-speaker system</p> |

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| | | | <p>Network and Communication: Wi-Fi 6(802.11ax)+Bluetooth 5.0 (Dual band) 2*2>(*BT version may change with OS upgrades.)</p> <p>Power Supply: ø6.0, 200W AC Adapter, Output: 20V DC, 10A, 200W, Input: 100-240V AC, 50/60Hz universal</p> <p>Weight: 2.60 Kg Maximum</p> |
| 9 | 1 set | Desktop Computer for the all-in-one software application | <p>Operating System: Windows 11 64Bit</p> <p>Processor: Intel Core i9 13900K 24C/32T LGA1700 13th Gen</p> <p>Graphics:12GB GDDR6X 384BIT 3-DP HDMI</p> <p>Memory: DDR5 5200Mhz 2x16GB DDR5</p> <p>Storage: MZ-V7S2T0BW SSD 970 Evo Plus NVME 2TB</p> <p>Power Supply: Total continuous power - 1000W, Voltage: 100 V - 240 V, Current: 13 - 6.5 A, Frequency: 50 Hz - 60 Hz</p> <p>Dimensions (L x W x H): 516 x 224 x 510mm (incl. Protrusions)</p> |
| 10 | 1 unit | PCI Express capture and playback card | <p>SDI Video Inputs/OUTPUTS: 4 x bidirectional 12-bit SD/HD independently configurable as either Input or Output.</p> <p>SDI Audio Inputs/OUTPUTS: 16 channels embedded in SD and HD.</p> <p>Sync Input: Tri-Sync or Black Burst.</p> |

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| | | | Computer Interface: PCI Express 4 lane generation 2, compatible with 4, 8 and 16 lane PCI Express slots. |
| | | | Power Consumption: 10 Watts |
| | | | Operating Temperature: 5° to 40 ° C (32° to 104° F) |
| | | | Color Space: REC 601, REC709, REC2020 |
| 11 | 1 unit | 2 Channel USB Sound Card | Phantom Power: 48 V, Selectable On/Off (Applied to All Inputs) |
| | | | Frequency Response: Inputs: 20 Hz to 20 kHz ±0.1 dB |
| | | | Sample Rates: Up to 192 kHz (AD/DA Conversion) |
| | | | Bit Depths: Up to 24-Bit (AD/DA Conversion) |
| | | | OS Compatibility: macOS 10.12 or Later, macOS 11, Windows 7 or Later, iPadOS |
| | | | Required Hardware: Available USB 2.0 Port |
| | | | Channels of I/O: Analog, 2 Inputs / 2 Outputs at 192 kHz |
| | | | Weight: 470.0 g Maximum |
| 12 | 2 units | Compact Four Channel Instant Replay Controller | Simultaneous Control: up to 4 RS-422 Video Decks and file-based Video Recorders |
| | | | Connection Type: USB |
| 13 | 1 unit | Capture Card with broadcast quality connections | SDI Video Outputs: 2 x 3Gb/s SD/HD switchable, supports fill and key |
| | | | Analog Video Inputs: Y, B-Y, R-Y/NTSC/PAL |

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| | | | <p>Analog Audio Inputs: 2 x 1/4 inch jack connectors for balanced and unbalanced analog audio.</p> <p>SDI Audio Inputs/Outputs: 16 Channels embedded in SD and HD.</p> <p>HDMI Audio Outputs: 2 Channels embedded in SD and HD.</p> <p>Reference Input: Tri-Sync or Black Burst.</p> <p>SD Video Standards: 525i59.94 NTSC, 625i50 PAL</p> <p>SDI Compliance: SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M and SMPTE 425M A/B.</p> <p>Computer Capture: 1 x Thunderbolt™ 3 for Mac and Windows. Powers from Thunderbolt host computer</p> |
| 14 | 2 units | High-speed, dual-WAN connectivity Network Switch | <p>Processor: Quad-Core ARM® Cortex®-A57 at 1.7 GHz</p> <p>System memory: 4 GB DDR4</p> <p>On-board storage: 16 GB eMMC Integrated 128 GB SSD</p> <p>Max. power consumption (excluding PoE output): 50W</p> <p>Power supply: AC/DC, Internal, 240W</p> <p>Supported voltage range: 100—240V AC</p> <p>Management interface: Ethernet/Bluetooth</p> <p>LCM display: (1) 1.3" touchscreen; Bootup animation: bootup in progress; Firmware upgrade icon: firmware upgrading</p> <p>Mount material: SGCC steel rack mount</p> |
| 15 | 2 units | 10-Channel Analog Mixer with USB | <p>Number of Analog Input Channels : 10</p> <p>Number of Mic Preamps: 4</p> <p>Number of Compressors: 2</p> |

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| | | | Power Supply: External 100-240 VAC |
| | | | Weight: 2.2 kg Maximum |
| 16 | 4 units | 2-way reference studio speaker | Maximum SPL per pair: 108 dB SPL @ 1m |
| | | | Low Frequency Power: 30 watts, 4ohms load, 60 watts peak |
| | | | High Frequency Power: 20 watts, 6ohms load, 40 watts peak |
| | | | Crossover Frequency: 2kHz |
| | | | Power Consumption: 90 watts with music, loud mix, 10 watts quiescent |
| | | | Weight: 4.6 kg Maximum |
| 17 | 1 unit | 2-Bay Desktop NAS Enclosure Server | Number of Bays: 2 x 2.5"/3.5" with 32TB HDD |
| | | | I/O: 2 x USB Type-A (USB 3.1 / USB 3.2 Gen 1 (5 Gb/s)), 2 x RJ45 (Gigabit Ethernet) |
| | | | Form Factor: Desktop |
| | | | Max User Accounts: 2048 |
| | | | Supported File Systems: Internal: BTRFS, EXT4, External: BTRFS, EXT3, EXT4, FAT, HFS+, NTFS, exFAT |
| | | | Power Consumption: 14.69 W (Typical), 4.41 W (Standby) |
| | | | Storage Temperature: -5 to 140°F / -20 to 60°C |
| | | | Certifications: BSMI, CCC, CE, EAC, FCC, Kcc, RCM, RoHS, VCCI |
| 18 | 4 units | Handheld Dynamic Microphone | Cartridge Type: Dynamic (moving coil) |
| | | | Frequency Response: 50 to 16,000 Hz |
| | | | Polar Pattern: Supercardioid |
| | | | Output Impedance: 150 Ω |
| | | | Sensitivity: -51 dBV/Pa (2.8 mV) |
| | | | Weight: Net: 0.278 kg |
| | | | Connector: Three-pin professional audio (XLR), male |
| 19 | 4 units | | Operating Range: 300 ft (91 m) line of sight |

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| | | Handheld Wireless Microphone System 2 channel | <p>Available Frequencies: Between 524 – 865 MHz</p> <p>Audio Range: 50 – 15,000 Hz</p> <p>Transmitter RF Output Power: 10 mW, typical</p> <p>Audio Output Connector: XLR and 1/4" (6.3 mm) unbalanced</p> <p>Maximum Output Level: -27 dBV (XLR, mic level), -13 dBV (1/4")</p> <p>Battery Life: Up to 14 hours</p> <p>Dynamic Range: 100 dB A-weighted</p> <p>Operating Temperature Range: -18°C (0°F) – +50°C (122°F)</p> |
| 20 | 2 units | Miniature lavalier condenser microphone | <p>Type: Electret Condenser</p> <p>Frequency Response: 50 to 20,000 Hz</p> <p>Polar Pattern: Unidirectional (Cardioid)</p> <p>Output Impedance @ 1 kHz, typical: 600 Ω</p> <p>Audio Output Level: -43.5 dBV/Pa</p> <p>Signal-To-Noise Ratio @ 1 kHz: 72 dB</p> <p>Power Requirements: +5 V DC (nominal), 10 V maximum (DC bias)</p> <p>Polarity: Positive pressure on diaphragm produces positive voltage on pin 3 with respect to pin 1</p> <p>Cable: 1.3 m (50 in.)</p> <p>Net Weight: 25 g Maximum</p> |
| 21 | 4 units | Wireless Intercom System Full-Duplex with 2 communication headsets | <p>Transmission Range: 350m (1000ft) Line-of-Sight</p> <p>Frequency band: 1.9GHz DECT</p> <p>Modulation mode: GFSK</p> <p>Transmit power: <21dBm (125.9mW)</p> <p>Receiving sensitivity: <-90dBm</p> <p>Transmission latency: <35ms</p> <p>Battery Capacity: 700 mAh (2.66Wh) Li-Ion battery</p> <p>Signal-to-Noise Ratio: >55dB</p> |

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| 22 | 1 unit | SD, HD and 3G-SDI broadcast monitor display | Display Element: TFT Active Matrix LCD. |
| | | | Display Resolution: 800 x 480 pixels |
| | | | Contrast Ratio: Typically 500:1 |
| | | | SDI Auto Switching: Automatically selects between SD, HD and 3 Gb/s SDI. |
| | | | Video Sampling: 4:2:2 and 4:4:4 |
| | | | 2K Format Support: 2K DCI 23.98p, 2K DCI 24p, 2K DCI 25p 2K DCI 23.98PsF, 2K DCI 24PsF, 2K DCI 25PsF |
| | | | Color Depth: 16.7 Million Colors |
| | | | Power Consumption: < 20 Watts |
| 23 | 2 units | Distribution Amplifier SDI Video Inputs | SDI Auto Switching: Automatically detects SD, HD or 6G-SDI. |
| | | | SDI Compliance: SMPTE 259M, SMPTE 292M, SMPTE 296M, SMPTE 372M, SMPTE ST-2081, ITU-R BT.656 and ITU-R BT.601 |
| | | | SDI Color Space: YUV and RGB |
| | | | Operational Voltage Range: 12 - 31V DC |
| | | | Operating temperature: 0° to 40° C (32° to 104° F) |
| | | | Dimensions: 4.8 x 3.6 x 0.9" |
| | | | SDI Video Sampling: 4:2:2 and 4:4:4 |
| | | | SDI Audio Sampling: Television standard sample rate of 48 kHz and 24 bit. |
| 24 | 1 unit | Ultra HD 4K 3G-SDI/HDMI Pro Camcorder | Image Sensor: 1/2.5-type (inch) MOS Sensor |
| | | | Effective Pixels: 8.29 megapixels |
| | | | Optical Zoom: 24x |
| | | | Focal Length: 4.12 98.9mm |
| | | | Minimum Illumination: 1.5 lx (F1.8, Super Gain +, 1/30) |
| | | | Recording Format: MOV, MP4, AVCHD |
| | | | System Frequency: 59.94Hz / 50.00Hz |

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| | | | Video Compression Format: H.264/MPEG-4 AVC Main Profile, High Profile |
| | | | Streaming Method: Unicast, Multicast |
| | | | Network Protocol: RTSP/RTP/RTMP/RTMPS |
| | | | Weight: Body: approx. 0.9kg (1.98 lb) |
| 25 | 2 units | AMD Adaptive Sync 32 inches monitor | Color Depth: 8-bit / 10-bit color is supported |
| | | | Max Resolution: 3840 x 2160 @ 60 Hz |
| | | | Power Rating: 19 V 3.3 A |
| | | | Temperature Operating Conditions: 0 °C to 40 °C (32 °F to 104 °F) |
| | | | Dimensions (With Stand): 28.7 x 20.4 x 8.2" |
| | | | Weight (With Stand): 6.2 kg (13.6 lbs) Maximum |
| 26 | 6 units | BI-COLOR LED Par Can Fixture | Power Draw Total: 115W, 0.964A @ 120V/60Hz, 112W, 0.5A @ 220V/50Hz |
| | | | Light Source: 100 Watt COB Cool White LED (5700K) |
| | | | DMX Input/Output: 5-pin DMX In/Out |
| | | | Multi-voltage operation: AC 100- 240V, 50/60Hz |
| | | | Beam Angle: 9, 15, 20, 25, or 30 - degree |
| | | | Daisy chain: 15 fixtures (120V); 25 fixtures (230V) |
| | | | DMX Channels: 2 DMX channels |
| | | | Control protocol: DMX-512 |
| | | | Electronic Dimming: 0 - 100% with 5 dimming curves |
| | | | Weight: 3.4kg. Maximum |
| 27 | 3 units | Dual Color Dimmable LED Panel Light | AC Input Power: 110 to 240 VAC, 50 / 60 Hz |
| | | | Power Consumption: 100 W Maximum |
| | | | Lumens: 3200 |

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| | | | Variable Color: 3200 to 5600K |
| 28 | 6 units | High-Powered LED Wash Strobe Fixture (RGBW) | Light Source: 144x 1.5W RGB SMD LEDs + 144x .5W Cool White SMD LEDs |
| | | | Beam Angle: 120-degree Beam Angle |
| | | | Temperature: 6000k Color Temperature (White LED's only) |
| | | | Control Protocol: DMX |
| | | | 6 DMX Modes: 4, 8, 10, 10a, 12,15, 18 and 18a Dim Modes: 6 Presets (Standard, Stage, TV, Architectural, Theatre & Stage 2) |
| | | | Display: LCD display with 4-button touch menu |
| | | | Data: 3-pin & 5-pin DMX In/Out |
| | | | Max Power Consumption: 226W |
| | | | Dimensions (LxWxH): 15.3" x 5.63" x 8.38" |
| 29 | 1 unit | Mini DMX Lighting Controller | Number of DMX Channels: Control up to 192 DMX Channels |
| | | | Connection: 3-Pin DMX Connection |
| | | | DC INPUT: Accepts a DC 9~12V, 300 mA minimum, power supply |
| | | | Weight: 2.25 Kgs Maximum |
| 30 | 1 unit | 6-Way DMX Splitter & Amplifier | Voltage: 100~240V, 50/60Hz |
| | | | Fuse: 1A |
| | | | Weight: 1.3Kg Maximum |
| 31 | 1 unit | Folding Double Sided Stik Ladder | Construction: Aluminum |
| | | | Height: 7' (2.1 m) |
| | | | Load Capacity: 113.4 kg Maximum |
| | | | Weight: 11.5 kg Maximum |
| 32 | 5 units | Tripod Kit with Center Column for PTZ | Maximum Working Height: 89.4" / 227.1 cm Maximum |
| | | | Head Mount Type: 3/8"-16 Male |
| | | | Load Capacity: 14 kg Maximum |
| | | | Materials: Aluminum Alloy |
| | | | Weight: 4.2 kg Maximum |
| 33 | 2 units | | SPOT TO FLOOD RANGE: 20 - 70 degrees |

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| | | 150W 2-Point 4" Bi-Color LED Fresnel Light | BUILD MATERIAL: Aluminum LENS: 4" Glass Fresnel LIGHT SOURCE: 150 Watt LED OPERATING VOLTAGE: 120-240VAC MAX POWER CONSUMPTION: 81 W COLOR TEMPERATURE: Bi-Color 3200K - 5600K OPERATION TEMPERATURE: 10 - 110o F FIXTURE WEIGHT: 4.5 kg Maximum FIXTURE DIMENSIONS: 19 x 12 x 6 in (Maximum) |
| 34 | 1 unit | 40 RU RACK | BUILD MATERIAL: Aluminum Dimension: 600mm(W) x 700mm(D) x 1778mm(H) Maximum |
| 35 | 1 unit | 20 RU RACK | BUILD MATERIAL: Aluminum Dimension: 600mm(W) x 700mm(D) x 890 mm(H) Maximum |
| 36 | 1 set | 3-METER CONSOLE TABLE WITH WHEELS, 2 DRAWERS & 3 CHAIRS FOR STUDIO ROOM | |
| 37 | 1 set | 1.5-METER CONSOLE TABLE WITH WHEELS, 1 BUILT-IN DRAWER & 3 CHAIRS FOR BRIEFING ROOM | |
| 38 | 2 sets | 3-TONNER SPLIT TYPE AIR CONDITIONING UNIT 3-PHASE, 230 VOLTS | |
| 39 | 1 lot | Electrical and Electromechanical Works | Installation and lay-out of lighting system (fixture/console) for studio Installation and lay-out of duplex convenience outlet universal type 3-prong |

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| | | | <p>Wiring and installation of feeder conductor for the supply of 2-units of 3-tonner split type air conditioning unit</p> <p>Mounting and installation of 1-set main breaker 70AT, 3P, 230 volts</p> <p>Supply of 2-units of 3-tonner split type 3-phase air conditioning units</p> <p>Supply of labor and materials for the air conditioning units copper tubing and insulation</p> <p>Dismantling of existing lighting</p> <p>Installation of new studio house lighting</p> <p>Mounting and installation of 1-set 3-gang toggle switch</p> <p>Fabrication and installation of DMX cable tray 60 or 100mm</p> <p>Supply of console table for studio and briefing room</p> <p>Supply of 40RU equipment rack for studio and 20RU equipment rack for briefing room</p> <p>Supply of labor and materials for the project</p> |
| 40 | 1 lot | Studio room improvement | <p>Dismantling of Ceiling</p> <p>Dismantling of Electrical</p> <p>Dismantling of Existing HVAC Acoustic Wall</p> <p>Provision of Hallway Dressing Room, and Studio Area</p> <p>Floor Finish (Vinyl Carpet)</p> <p>Provision of New Blinds on Dressing Room</p> <p>Studio Area installation of Glass Window</p> <p>Installation of Studio Chroma Wall</p> <p>Installation of Studio Batten Lights Frame</p> <p>Open Ceiling (Existing Lights to be installed)</p> <p>Floor gas trench to be open</p> |

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| 41 | 1 lot | Audio, Video, and Broadcast Equipment Works | Testing and Installation of Broadcast Equipment Testing and Installation of Audio System Testing and Installation of Video System Program Input System Installation of lighting fixtures Configuration of DMX Controllers to the lighting fixtures Design and fabrication of Console tables Design and fabrication of Equipment Racks |

F. ELECTRICAL, MECHANICAL, AND INFRASTRUCTURE REQUIREMENTS

The Prospective Bidder shall coordinate with the Electrical group of the Engineering and Technical Services Division (ETSD) Central Office regarding the electrical layouts, electrical accessories, electrical wires, distribution box, and other peripheral needs for tapping the studio system to the electrical source. Before the submission of bids, the prospective bidder has the option to conduct an ocular survey of the location site. Site location plan and electrical layout is provided in the documents; any queries may be sent through written form thru the BAC secretariat and will be answered thru supplemental bid bulletin.

All expenses incurred for the integration of the project into the building’s electrical system shall be shouldered by the Winning Bidder. Must be required to submit all necessary electrical plans, diagrams, and other pertaining documents as required and approved by the Electrical group of ETSD.

The Winning Bidder shall also coordinate with the Infrastructure and Aircon units of the Engineering and Technical Services Division (ETSD) Central Office. All expenses incurred during the preparation and installation activity including necessary permits or clearances shall be shouldered by the Winning Bidder.

G. TESTING AND TRAINING

The Testing and Training shall be conducted on-site at PAGASA, WFFC. The testing must be witnessed by at least one (1) middle and/or top management staff from the Weather Division (WD) and from ETSD.

All related expenses during the activity shall be borne by the Winning Bidder. Moreover, 3-day hands-on end-users training on Weather Media Production System shall also be conducted onsite at PAGASA, WFFC.

The hands-on training shall include hardware/software configuration and system maintenance. The Winning Bidder shall provide meals for at least ten (10) training participants and the site acceptance team.

H. SYSTEM AND EQUIPMENT WARRANTY

The Winning Bidder shall submit a warranty certification stating that all system components, accessories, and workmanship shall be warranted for one (1) year including maintenance support and services from the date of delivery. Parts, units, and subsystems found to have factory defects must be fixed or replaced immediately during the warranty period.

Warranty includes version upgrades or updates, troubleshooting and technical support based on 24x7 via email provided by the supplier.