



REPUBLIC OF THE PHILIPPINES  
**PRESIDENTIAL COMMUNICATIONS OPERATIONS OFFICE**  
*Tanggapang Pampanguluhan sa Operasyong Komunikasyon*  
Ermita, City of Manila

**SUPPLEMENTAL BID BULLETIN NO. 1**  
**18 May 2022**

**Supply, Delivery, Installation, Supervision, Integration, Training, Testing and Commissioning of Various Equipment Systems and Professional Services for the PCOO Government Communications Academy**  
(PCOO Procurement/Contract No. 2022-PCOO-I-113)

Issued pursuant to Section 22.5 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184 to clarify and/or amend certain provisions in the Bidding Documents issued for this project, considering the issues raised and clarifications made by prospective bidder/s during the Pre-Bid Conference held on **13 May 2022**.

**A. CLARIFICATIONS**

<b>REFERENCE</b>	<b>RESPONSE</b>
1. Prospective Bidder requested for the as-built plan of the building, including the technical rooms, Cable Containments like cable trays, mouse holes and broadcast system panels.	Please refer to the link below as also provided in the additional details posted in PhilGEPS website:  <a href="https://drive.google.com/drive/folders/19NsM00QjGC5YWYrEfrV-yAwVmtUy0MFE">https://drive.google.com/drive/folders/19NsM00QjGC5YWYrEfrV-yAwVmtUy0MFE</a>
2. Prospective Bidder asked if furniture like consoles, equipment racks, technical tables and chairs included?	Not included. Please refer to <b>Section VII. Technical Specifications</b>
3. Prospective Bidder asked if the project could be broken into several expertise.  For example: Transmitter Facility, Studio Facility, Post Production Facility, TOC/MCR Central Rack Room.	The project is one (1) lot only.
4. Prospective Bidder asked who shall provide the equipment racks for the setup?	The winning bidder/supplier shall provide the equipment racks for the setup.
5. Prospective Bidder asked if the cables and connectors listed in Section VII shall be for installation or part of the inventory?	Cables and connectors listed in Section VII shall be for installation.
6. What is the size required for the LED Wall? <i>(Item 2.22, Sec. VII Tech Specs)</i>	LED Wall must be at least 9 ft. x 12 ft.
7. What is the minimum PC configuration required for the High-End CPU? <i>(Item 7.5, Sec. VII Tech Specs)</i>	High-End CPU must be configurable to at least:  14-Core 2.5GHz Intel Xeon W Turbo Boost up to 4.3GHz 33.25MB cache
8. Prospective Bidder requested for more detailed technical specifications of	Please refer to amendments below:

Item No.1 SUPPLY, DELIVERY, INSTALLATION, SUPERVISION, AND INTEGRATION OF TV TRANSMITTER (2KW Broadcast Transmitter) <i>((Item 1.1, Sec. VII Tech Specs))</i>	SECTION VII. TECHNICAL SPECIFICATIONS <b>“AS AMENDED”</b>
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## B. AMENDMENTS

### SECTION VII. TECHICAL SPECIFICATIONS

ORIGINAL	AS AMENDED	Qty.	Actual Brand/ Model being Offered	Statement of Compliance
Item and Specification	Item and Specification			
<p><b>1. SUPPLY, DELIVERY, INSTALLATION, SUPERVISION, AND INTEGRATION OF TV TRANSMITTER</b></p> <p><b>Item 1.1</b>  <b>2KW Broadcast Transmitter</b></p> <ul style="list-style-type: none"> <li>• with SDR+FPGA+DDS Exciter, Part No. MW-DST9760</li> <li>• with 8 Channel Encoder+MUX</li> <li>• with IP/SDI/ASI/dual TS I/O, Part No. MW-DST3080</li> <li>• with High-Speed Touch Controlled CCU (Computer Control Unit)</li> <li>• with Supports Remote NMS + Software Solution</li> <li>• with Hot Plug SSPA with RF/Power/Temp Control and Protection</li> <li>• with Centralized N+1 Multiple Independent Switching Power Modules</li> <li>• with Forces Air Cooling System</li> </ul>	<p><b>1. SUPPLY, DELIVERY, INSTALLATION, SUPERVISION, AND INTEGRATION OF TV TRANSMITTER</b></p> <p><b>Item 1.1</b>  <b>2KW Broadcast Transmitter</b></p> <ul style="list-style-type: none"> <li>• with SDR+FPGA+DDS Exciter</li> <li>• with 8 Channel Encoder+MUX</li> <li>• with IP/SDI/ASI/dual TS I/O</li> <li>• with High-Speed Touch Controlled CCU (Computer Control Unit)</li> <li>• with Supports Remote NMS + Software Solution</li> <li>• with Hot Plug SSPA with RF/Power/Temp Control and Protection</li> <li>• with Centralized N+1 Multiple Independent Switching Power Modules</li> <li>• with Forces Air Cooling System</li> <li>• The Transmitter system must be state of the art using the latest Solid State Doherty technology, High-Efficiency with variable fan speed, Compact, Air-cooled, and built in a single rack.</li> <li>• The Transmitter system must have at least a single exciter unit with LCD display, ASI and IP input, GPS receiver with Antenna, built-in internal ISDB-T Mux, SFN capability, Main Control Software, Web UI, and SNMP</li> <li>• The Transmitter Power Amplifiers should be broadband from 470MHz to 608MHz, hot-swappable, redundant with 3 at least PSUs, modular, and must have RF/Power/Temp/VSWR LED monitoring, protection, and control.</li> <li>• Hot Swappable Power Supply Units</li> <li>• The Transmitter system must come with a rackmount network switch for IP input and connectivity</li> <li>• The Transmitter system must have a rated power of 2KW before filter, high efficiency with at least 35-36dB MER, and must be calibrated based on an 8-pole band pass filter</li> <li>• The Transmitter Vendor must have experienced and track record in integrating and commissioning Digital TV transmitter system particularly ISDB-T Standard</li> </ul>	<p><b>1</b> <b>lot</b></p>		

	<ul style="list-style-type: none"> <li>• The Transmitter system must have test ports before the band pass filter</li> <li>• The transmitter must come with a 3KW 8-Pole Band Pass filter system with directional coupler tuned to the frequency of operation</li> <li>• The Transmitter system must have 1-5/8" EIA RF output connector for the 2KW power, Rigid lines, elbows, flanges, 3KW Dummy Load, and a 3-port RF patch panel with interlock.</li> <li>• The Transmitter system must have a complete electrical system composed of industrial grade panel boards and breakers, standard grounding system, 100KA TVSS, and at least 15KVA single phase AVR.</li> <li>• The Transmitter Vendor shall conduct Proof of Performance (POP) using the Factory Test Data as reference</li> </ul> <p><b>ISDB-T Head-End System</b></p> <ul style="list-style-type: none"> <li>• The Head-end system must have at least one eight channel encoder built in a single rackmount frame with dual power supply, and capable for IP and/or ASI input and output</li> <li>• The Head-end system must have one rackmount ISBD-T Multiplexer (Mux) with eight ASI inputs, redundant ASI Output, and one IP Output</li> <li>• The ISDB-T Multiplexer must have 10MHz input and 1PPS input</li> <li>• The ISDB-T Multiplexer must have at least an SFN function and must come with an SI Generator for the configuration of the TMCC, tables, and services/programs/channels.</li> <li>• The ISDB-T Multiplexer should be capable for EWBS and One-Seg</li> <li>• The head-end must have an IP gateway for IP/ASI integration</li> <li>• The head-end system must have a complete electrical system with a rackmount 3KVA UPS</li> <li>• The head-end system must come with one complete computer for system management purposes.</li> <li>• The Vendor shall take care of the Complete integration of the Head-End System to the Transmitter system as part of the testing and commissioning</li> <li>• The Vendor shall conduct training on ISDB-T fundamentals as part of the turn-over process</li> </ul> <p><b>Transmission Line and Antenna System</b></p> <ul style="list-style-type: none"> <li>• The 2KW transmitter system must come with at least 180ft 1-5/8" air dielectric transmission line, three grounding kits, EIA flange connectors, two hoisting grip, clamps, and other installation accessories to ensure safety of the cable.</li> <li>• The transmission line must have a dehydrator unit</li> <li>• The 2KW transmitter system must come with an antenna with the following basic specifications:             <ul style="list-style-type: none"> <li>○ Broadband (470MHz – 700MHz)</li> </ul> </li> </ul>			
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	<ul style="list-style-type: none"> <li>○ At least 4x2 configuration, cardioid pattern</li> <li>○ Horizontal Polarization</li> <li>○ Must come with a fine matcher</li> <li>○ At least 1.07 VSWR on the desired frequency of operation</li> <li>○ Input power of 2KW</li> <li>○ 1-5/8" input connector at the main power divider</li> <li>○ Tilts and Null Fills to be discussed to the winning Vendor as part of the antenna optimization</li> <li>• The Vendor shall submit Antenna design and configuration as part of the Bid</li> <li>• The winning Vendor shall provide test data of the Antenna as part of the overall documentation, including softcopy of the azimuth and elevation pattern</li> <li>• The Vendor must submit a Predicted Coverage Map for Portable Outdoor and Indoor of the transmission using the 2KW TPO given the specified antenna configuration as part of the bid document</li> <li>• During testing and commissioning, the Vendor must use at least 2-port VNA to show the response of the antenna system</li> <li>• The Vendor is also required to conduct actual field measurement using a Spectrum Analyzer with ISDB-T measurement function to check the quality of transmission.</li> <li>• During the Antenna installation, the Vendor must provide Safety Engineers to adhere with the safety standards especially on a high-risk jobs.</li> </ul>			
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All other portions of the Bidding Documents affected by these amendments shall be made to conform to the same.

Amendments/inclusions/clarifications made herein shall be considered an integral part of the Bidding Documents.

Conforme:

Name & Signature of : \_\_\_\_\_  
 Bidder's Representative : \_\_\_\_\_  
 Designation : \_\_\_\_\_  
 Name of Company : \_\_\_\_\_

Should you have further concerns, you may contact the BAC Secretariat through the details below:

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**Atty. MARK WAYNE E. EUBANK**

**Head, Bids and Awards Committee Secretariat**

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Email: bac1@pco.gov.ph

Website: <https://pcoo.gov.ph>

For information and guidance.

*Original signed*

**Usec. OMAR V. ROMERO**

Chairperson, Bids and Awards Committee

#### **CERTIFICATION**

Amendments/inclusions/clarifications made herein are hereby approved  
by the End-User Unit Representative:

*Original signed*

**ATTY. ANNA FARINAH B. MINDALANO**

End-User Unit Representative

<p>Prepared by:</p> <p><i>Original signed</i> <b>JAYSON C. ERQUIZA</b> BAC Secretariat Chief, Procurement Division</p>	<p>Reviewed and approved for release by:</p> <p><i>Original signed</i> <b>ATTY. MARK WAYNE E. EUBANK</b> Head, BAC Secretariat Director for Procurement Management</p>
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