

Section VII. Technical Specifications

Bidders must state “**Comply**” in the column “**Statement of Compliance**” against each of the individual parameters of each “Specifications.”

Supply, Delivery, Installation, Integration, Training, Testing and Commissioning of Digital Microwave Communications Studio-To-Transmitter Link (STL) for the Live Broadcast of TV Production of the Visayas Media Hub (Procurement/Contract No. 2023-PCO-100)			
ITEM NO.	DESCRIPTION	QTY	STATEMENT OF COMPLIANCE
1.0	<p>Microwave Transmitter and Receiver (Head & control) 2-Box Type</p> <p>Multiplexers and Demultiplexers (Internal TS Mux/DeMux)</p> <p>It must have TS in/out and SDI in/out; ASI (TS) format signal multiplex/de-multiplex. (Built-in encoder/decoder & Mux/Demux). Please refer to 3.2.3 in the Terms of Reference</p> <p>Transmitter (TX) and Receiver (RX) Monitor and Control panel: For TX, it must show the status of signal level and reflection; Frequency Channel, Modulation, Preset Mode, Power Output, and Encoding. For RX, it must show the Receiving Signal Level, Frequency Channel, bit error rate (BER).</p> <p>Hardware and Casing -Easy installation, weatherized, lightweight, rugged designed, portable. (Please provide rack tray that fits the control units)</p> <p>Power Supply 100V-240V 60Hz Auto volts</p> <p>Video Format 480i,1080i, 1080P, 1440p; 4:2:0/ 4:2:2; w/ monitor output active through; BNC connector w/ Color Bars test generator</p> <p>Audio Signal</p>	1 set	

	<p>Embedded Audio 4ch max. (SDI)</p> <p>CoDec (Encoder and decoder type) HD/SD (MPEG5)</p> <p>Modulation method OFDM nad/or QAM</p> <p>Transmission Frequency 7Ghz Band with multiple Channels and Presets</p> <p>Polarization Vert./ Hor. (selectable)</p> <p>Accessories: Carrying case, top cover, 1</p>		
2.0	<p>Microwave Receiver units (indoor & outdoor) and accessories All specs must be compatible with item number 1</p>	1 set	
	<p>Encoder unit and Decoder unit (for external encoder & decoder, stand-alone units) HEVC,</p> <p>HD Encoding Embedded Audio Features atleast 4 channels</p> <ul style="list-style-type: none"> • MPEG-1 Layer II: Stereo x 4 • MPEG-2 AAC/MPEG-4 AAC/HE-AAC • Multiple Audio Format Support atleast 4ch <p>Combinations With Closed Caption TS Over IP Support with FEC</p> <p>Supports TS Over IP Easy Operation from Front Panel Display with Control Buttons as well as SNMP and WEB GUI via IP Network</p> <p>Video Input BNC</p> <p>Video Through Output BNC</p> <p>Audio Input AES/EBU (8ch): BNC x 4 lines</p> <p>Embedded Audio (SDI atleast 4ch)</p>	1 unit	

	Test Signal Video: Color Bar, Audio: 1kHz Sine wave Output Interface ASI: BNC		
	2-footer Parabolic disc and feedhorn (for Antenna) and accessories Durable, Ruggedized, lightweight, approx.2-ft. diameter; Wind Velocity Survival Rating: 125 mph 201 km/h or better Ruggedized design, water protection and easy install/detach mechanism. High Gain, dual polarized	2 sets	
	Coaxial Cable (at least 100m) Ruggedized, durable, water protection/insulation with outdoor type material with reel spool	4 units	
	HD/SD-SDI Video Multi-viewer (4/8 Windows) with UHD LED TV Monitor (atleast 50") Capable for 4-8 split windows, Supports SD, HD, Ultra HD-SDI BNC connector, HDMI out Smart TV, built in digital ISDBT receiver, contrast enhancer, slim design, 55" or better	1	
	Powered Speaker 8" LF 600Wrms 100Wrms HF, w/Stand max. Spl:128dB or better; Freq. Range 60Hz-20kHz or better, Bi-amped.	1	
	Installations cost, tower works, tower mount brackets, other installation materials and fabrications	1 Lot	
	Operation manuals of each equipment (free)	2	
	Training and commissioning cost, delivery cost and other services.	1	
	General Conditions - The supplier must have a track record of similar broadcast communication equipment supply, delivery, installation and commissioning. The supplier must submit purchase orders, contracts of similar items delivered;	1	

	<ul style="list-style-type: none"> - The supplier should have a certificate of exclusive distributor or authorized dealer/reseller from the manufacturer; - Certification from the principal that the supplier has the technical knowledge capability for a 24/7, 365 days a year equipment repair, maintenance and support service; - The supplier shall include one (1) year extended warranty certificate from the standard of one (1) year for the equipment maintenance and support during operation; 		
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Conforme:

Full Name and Signature of Bidder/Authorized Rep.

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Designation

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Name of Company

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