

**Section VII. Technical Specifications**

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

<b>Supply, Delivery, Installation, Supervision, Training, Testing, Commissioning of 2.5KW Digital Terrestrial Television Broadcast (DTTB) Transmitter and Headend Equipment with Early Warning Broadcast System (EWBS)</b>				
<b>Item No.</b>	<b>Item Description <u>Bidders shall comply with the following minimum Technical Specifications:</u></b>	<b>QTY</b>	<b>Brand Offered</b>	<b>Statement of Compliance</b>
	<b>2.5KW Digital Terrestrial Television Broadcast (DTTB) Transmitter</b>			
1.0	UHF 2.5 kW Air-Cooled Digital TV Transmitter System with accessories	1		
2.0	Exciter and Control System (w/ GPS Receiving System)	1		
3.0	RF Power Amplifiers	1		
4.0	Cooling System	1		
5.0	Feed Horn Antenna )(for 2-footer Parabolic disc)	1		
6.0	Emergency Warning Broadcast System (EWBS) Server and Encoder	1		
7.0	Spare Parts	1		
	<b>Transmitter Output Network</b>			
2.0	Transmitter Output Waveguide (Rigid Line)	1		
2.1	Band Pass Filter	1		
2.2	Directional Coupler	1		
2.3	Harmonic Filter	1		
2.4	Dummy Load	1		
2.5	3-Port Patch Panel	1		
2.6	Rigid Line Kit	1		
	<b>Electrical System and Transmitter AC Protection System</b>			

3.1	Automatic Voltage Regulator	1		
3.2	Isolation Transformer	1		
3.3	Transient Voltage Surge Suppressor	1		
3.4	Grounding System	1		
	<b>Additional Requirements</b>			
1.0	Submission of proposed system block diagram to ensure interoperability of the equipment. (Annex "A")			
2.0	Compliance with the Terms of Reference (Annex "B")			
3.0	<p>Installation Materials, Cables and Wiring Code</p> <ul style="list-style-type: none"> <li>a. All items, cables and other installation materials and tools required for the successful installation of the systems and equipment shall be supplied by the system integrator.</li> <li>b. Cables and connectors shall be of high quality and from respectable manufacturers. Unbranded products shall not be accepted.</li> <li>c. For distances less than 100 meters, copper cable can be used. But for distances more than 100 meters, fiber cable must be used.</li> <li>d. The winning bidder/system integrator shall submit samples of all the cables and connectors offered together with their specifications for the Procuring Entity's approval before installation.</li> <li>e. The winning bidder/system integrator shall ensure that all the cables are grouped and laid properly and neatly according to the signals being carried. Separate groups shall be formed for power</li> </ul>			

cables, control cables, video cables, low level audio or microphone cables, high level or line level audio cables, intercommunications cables LAN cables, Fiber Optics cables and speaker cables. Inter-rack cable connection to equipment must be laid in that manner (see attached picture)

- f. All cables, especially those at the racks, shall be arranged in a tidy and orderly manner.
- g. All cabling and wiring shall have a proper coding system, which will be provided by PCO to standardize the cable color coding in all PCO stations nationwide.
- h. A properly and correctly documented cable schedule shall be supplied on a standard software package after the completion of the installation. Two sets of the final cable schedule shall be supplied in a properly bound volume.
- i. All installation materials left after completing the project will remain as PCO property and shall not be brought out by the bidder/integrator.
- j. The Winning Bidder/System Integrator shall closely supervise the installation to ensure that all cabling within the rack is so arranged that the equipment is easily and conveniently serviceable in such a way that it shall be possible to disconnect and remove any equipment without disturbing the cable looms within the rack.

Conforme:

Full Name and Signature of :  
Bidder/Authorized Rep.

Designation

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Name of Company

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