

BID BULLETIN NO. 3
13 November 2024

Design, Supply, Delivery, Installation, Integration, Testing, Commissioning, and Training for One (1) Set Digital TV Transmission Equipment with Satellite Receiver and Antenna Systems for PTV Legazpi of the People's Television Network, Inc. (PTNI)
ITB No. 2024-0011

This bulletin is being issued to revise/clarify certain portions of the bidding documents. This shall form an integral part of the bidding documents for the above-stated project.

No.	Queries	Response						
	Under DTT Transmitter System and all accessories							
1	<table border="1" data-bbox="252 786 778 958"> <tr> <td data-bbox="252 786 323 853">1.1</td> <td data-bbox="323 786 491 853">Operating Frequency & System</td> <td data-bbox="491 786 778 853">- Band IV/V UHF Ch 39 (620-626 MHz); Tunable; 6 MHz BW</td> </tr> <tr> <td data-bbox="252 853 323 958">3</td> <td data-bbox="323 853 491 958">RF Power Amplifiers</td> <td data-bbox="491 853 778 958">- Optimized to Ch-14 Can be tuned to other channels within Band IV / V UHF</td> </tr> </table> <p data-bbox="252 969 778 1059">In Item 1.1 the system works in Band IV/V CH 39 but on Item 3 it was optimized on CH 14. Please clarify.</p>	1.1	Operating Frequency & System	- Band IV/V UHF Ch 39 (620-626 MHz); Tunable; 6 MHz BW	3	RF Power Amplifiers	- Optimized to Ch-14 Can be tuned to other channels within Band IV / V UHF	<p data-bbox="790 786 1066 819">The channel is Ch. 39</p> <p data-bbox="790 846 1423 909">Specification of RF Power Amplifiers is being revised to:</p> <ul data-bbox="847 909 1423 1559" style="list-style-type: none"> • 100% Solid State • Broadband Doherty configuration with the latest UHF power Laterally-Diffused Metal-Oxide Semiconductor (LDMOS) transistor technology (supplier should indicate the model of LDMOS transistor used by their transmitters) • Tuneable • Modular and Hot Swappable with at least 2 Power Amplifiers. • All power amplifiers should be identical and operate in parallel and should be interchangeable with one another. • All RF amplifier modules shall be protected against over temperature, over-current, overdrive, and reflected power. • All modules shall be provided with suitable visual alarms to indicate faults within to facilitate identification • Visible Fault indicators Field Repairable
1.1	Operating Frequency & System	- Band IV/V UHF Ch 39 (620-626 MHz); Tunable; 6 MHz BW						
3	RF Power Amplifiers	- Optimized to Ch-14 Can be tuned to other channels within Band IV / V UHF						
2	<table border="1" data-bbox="252 1588 778 1659"> <tr> <td data-bbox="252 1588 323 1659">1.3</td> <td data-bbox="323 1588 491 1659">Output Power</td> <td data-bbox="491 1588 778 1659">- 1kW Power at the input of the station load for ISDB-T</td> </tr> </table> <p data-bbox="252 1671 778 1731">This means 1kW power is after the bandpass filter?</p>	1.3	Output Power	- 1kW Power at the input of the station load for ISDB-T	<p data-bbox="790 1588 1145 1621">Yes, after the Bandpass filter</p>			
1.3	Output Power	- 1kW Power at the input of the station load for ISDB-T						
3	<p data-bbox="252 1760 778 1912">For Control Monitoring System, Transmitters with the exciter and one PA don't have a control unit and all the control is through the LCD display of the exciter</p>	<p data-bbox="790 1760 1423 1821">GUI for main monitoring system and selectable switch ON/OFF for each Exciter.</p>						

	which is not a touch screen. Is it acceptable?	
4	For item 2.5 Back-up Power Service (page 26) and item 3. 3 Uninterrupted Power Supply (page 28) Please clarify if this is just one or separate requirement and what should be the power?	UPS only (atleast 10 min. backup time) Existing back-up power (150KVA Generator)
5	For RF Power Amplifiers, Please clarify if the power amplifier is capable of narrowband, broadband or wideband. <ul style="list-style-type: none"> • <i>Narrowband is not tunable to other channels and is the most efficient design.</i> • <i>Wideband is tuneable to a specific band only, either band IV or V.</i> • <i>Broadband is tuneable to both bands.</i> 	It shall be Broadband
6	For RF Power Amplifiers, - Modular and Hot Swappable Please clarify since the transmitter is low power and it consist of 1 PA only.	Specification of RF Power Amplifiers is being revised to: <ul style="list-style-type: none"> • 100% Solid State • Broadband Doherty configuration with the latest UHF power Laterally-Diffused Metal-Oxide Semiconductor (LDMOS) transistor technology (supplier should indicate the model of LDMOS transistor used by their transmitters) • Tuneable • Modular and Hot Swappable with at least 2 Power Amplifiers. • All power amplifiers should be identical and operate in parallel and should be interchangeable with one another. • All RF amplifier modules shall be protected against over temperature, over-current, overdrive, and reflected power. • All modules shall be provided with suitable visual alarms to indicate faults within to facilitate identification • Visible Fault indicators Field Repairable
7	Waveform Monitor is irrelevant and for analog transmitter only	The waveform monitor is still required for this project.
8	Under DTT Transmitter Antenna Systems and all accessories	
9	For Rigid Line Kit,	There is no "Transmitter Output Network".

	Where is the Transmitter Output Network from the transmitter?	Correction and revision on the specification of Rigid Line Kit: 1-5/8" Line sections, elbows, connectors, etc. for the interconnection of the transmitter system to the transmitter output
10	For Directional Coupler, Directional coupler before or after the filter? Do you need 3 ports all FWD or also RFL? If all the 3 ports will be used or does the DC just needs to have more than 3 ports?	Directional coupler shall be after the filter. Both FWD and RFL shall have 3 ports. The DC shall have at least 3 or more than ports.
11	For Transmitter Control/Monitoring System, Our system consists of 1 exciter and 1 amplifier, the exciter acts as the controller. The system doesn't have a control unit, is it acceptable?	The transmitter shall be GUI controlled for system and information.
12	Requesting for extension of delivery schedule from 90 to 120 calendar days upon signing of Notice to Proceed.	Delivery Period is hereby revised to One hundred twenty (120) calendar days upon signing of Notice to Proceed (NTP)
13	On page 21, Section VI. Schedule of Requirements, Within ninety (90) calendar days upon signing of Notice to Proceed - Could we extend it to 120 calendar days? Factors to consider include the availability of the equipment, shipping lead time, the duration of integration, testing, commissioning, and training.	Delivery Period is hereby revised to One hundred twenty (120) calendar days upon signing of Notice to Proceed (NTP)
14	On page 14, under Section III. Bid Data Sheet, refer to 5.3 For this purpose, contracts similar to the Project shall be: a. "Supply and installation of Analog and/or Digital TV Transmission Equipment" or "supply and installation of Radio or TV Broadcast Antennas". Would it be possible to consider "Supply, Delivery, Installation, Integration, Training, Testing, and Commissioning of Complete System and Accessories of Standard of C-BAND SATELLITE STATION of Mindanao Media Hub, People's Television Network Inc." as an SLCC? This is because the Satellite Earth Station also includes a satellite decoder or receiver,	Not Accepted.

	antenna system, and other components, which are all requirements or similar of this project.	
15	<p>On page 27, Section VII. Technical Specification, Item 1 Harmonic Filter, the specification says: "At least 5kW power rating for ISDB-T Band IV/V UHF".</p> <p>- We request the relaxation of this specification. This specification is neither reasonable nor logical: Why should the harmonic filter should hold up to 5kW if the equipment is 1kW and our filter holds up to 2kW? Furthermore, with a 5kW harmonic filter the 1 5/8 connector type of this transmitter would not work. We request that this specification be reviewed so that a 2kw harmonic filter is enough.</p>	<p>Revising the specification of Harmonic Filter to:</p> <p>At least 2kW power rating for ISDB-T Band IV/VUHF</p>
16	<p>On page 25, Section VII. Technical Specifications, item 2.1 (second feature) "User friendly control panel with LCD touch screen display"</p> <p>We request the relaxation of this specification so that a color TFT not touch display screen can be an option too.</p>	<p>Preferably the control panel shall have an LCD touch screen display, but this is accepted.</p>
17	<p>On page 26, Section VII. Technical Specifications, item 3 "Narrowband Doherty configuration".</p> <p>- We Request that an improvement like the Doherty Wide Band technology may be accepted too, since it offers the same efficiency as narrowband with the advantage that it is broadband and no physical change is required to tune channels.</p>	<p>Specification of RF Power Amplifiers is being revised to:</p> <ul style="list-style-type: none"> ● 100% Solid State ● Broadband Doherty configuration with the latest UHF power Laterally-Diffused Metal-Oxide Semiconductor (LDMOS) transistor technology (supplier should indicate the model of LDMOS transistor used by their transmitters) ● Tuneable ● Modular and Hot Swappable with at least 2 Power Amplifiers. ● All power amplifiers should be identical and operate in parallel and should be interchangeable with one another. ● All RF amplifier modules shall be protected against over temperature, over-current, overdrive, and reflected power. ● All modules shall be provided with suitable visual alarms to indicate faults within to facilitate identification ● Visible Fault indicators Field Repairable

18	<p>Testing, Commissioning and Proof of Performance</p> <p>a. Factory Acceptance Test (FAT)</p> <p>b. Site Acceptance Test (SAT)</p> <p>PTNI require a Factory Acceptance Test or need to submit a Factory Test Report? Please clarify.</p>	It shall be a Factory Acceptance Test.
19	<p>We've noticed that there is an ongoing installation/construction of antenna spine on the tower.</p> <p>May we request a copy of Tower Antenna Spine Interface design/drawing.</p> <p>Please be advised that antenna top mount spine is not included nor part of the bidding document/TOR.</p>	<p>We will provide a copy of Tower Antenna Spine Interface design/drawing in a separate Bid Bulletin.</p> <p>"Antenna Top Mount Spine" is not included in this project.</p>
20	<p>The allocated pedestal for the parabolic antenna is not sufficient on the required size of the antenna. Can we reduce the size of the antenna to 2.4M?</p>	The size of the antenna shall be 2.8 meters.
21	<p>In Technical Specifications, Page 27 Item No. 11, can you consider a normally closed 1RU SDI HD/SD Video Patch Panel?</p>	The 1RU video patch panel shall be normally closed.

No	Additional Revision/Amendments
1	<p>Testing, Commissioning and Proof of Performance. The winning bidder shall conduct testing and commissioning with three (3) end-user representatives and at least show the following transmitter response based on the ISDB-T standard during the testing and commissioning of the DTT transmitter system: (The winning bidder must submit all test results to the Project Management Office (PMO) and Provincial Network Division (PND) for concurrence of the end-user.</p> <ol style="list-style-type: none"> 1. Frequency Deviation 2. Signal Power 3. Occupied Frequency Bandwidth 4. Spectrum Mask 5. Spurious and Unwanted Emissions 6. IFFT Sampling Frequency Deviation 7. Phase Noise 8. Amplitude-Frequency Characteristics 9. Group Delay Characteristics 10. Delay Time 11. Intermodulation 12. Gaussian Noise vs. BER Characteristics




13. Power Consumption
14. Input Signal
15. Output End Mismatching Range
16. MER Characteristics
17. Actual Viewing of Video and Listening to Sound
18. Noise Figure

The winning bidder shall be responsible for covering all costs such as per diem, accommodation, transportation and any other related costs associated with the three (3) end-user representatives for the above activity.

All other information in the Bidding Documents inconsistent with the above is hereby revised accordingly. All other provisions which are not affected shall remain in effect.

For further guidance and information of all concerned.

Thank you.


JASMINE B. BARRIOS
Chairperson, Bids and Awards Committee