

Office of the President of the Philippines PRESIDENTIAL COMMUNICATIONS OFFICE

Manila

SUPPLEMENTAL BID BULLETIN NO. 1 24 October 2023

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)

(Procurement/Contract No. 2023-PCO-079)

Anent the Pre-Bid Conference held on **17 October 2023** for the above-cited procurement project by the Bids and Awards Committee, and the inquiries received by the Secretariat thereafter, please be informed of the following clarifications and amendments:

- A. Procedure on submission of bids
- B. Technical Specifications
- C. Schedule of Activity

All amendments are indicated in red.

A. Procedure on submission

COMMENTS/ CLARIFICATION	ANSWER/RESPONSE
How many copies of the Legal and Technical documents do we need to submit	Prospective bidders must submit two (2) original copies of the Bidding documents (Legal and Technical, and Financial Documents, in a sealed envelope.
Whether the PCO will accept a single contract with DTT transmitter and headend only?	Yes, the PCO BAC will accept supply, delivery commission and headend Supply, Delivery, Installation, Supervision, Training, Testing, Commissioning of 2.5KW Digital Terrestrial Television (DTT)
The supplier requested a copy of the Price Schedule Form for Goods Offered from Abroad.	Please refer to the attached Price Schedule Form (Section VII.1)

B. Technical Specifications

COMMENTS/ CLARIFICATION	ANSWER/RESPONSE
Inclusion on tech specs of headend and not	Please see the attached detailed
in the TOR and clarified whether the one seg	specifications sheet.
to verify the amount of HD and SD entering.	
In Item No. 5, the parabolic antenna is	Parabolic antenna not included
already included.	
Clarification whether the Committee can	No. It does not share the same nature and

Page 2 of 10

x - - - - - x

consider the following project for the above subject.

Supply, Delivery, Installation, Integration, Training, Testing and Commissioning of Complete System and accessories of Standard C-Band Satellite Earth Station of Mindanao Media Hub, People's Television Network Inc. 2019

complexity as the subject matter of the project being procured.

Whether the listed documents should be included in the submission?

Said documents shall be submitted during post-qualification.

- 1. The bidder must submit a complete detailed technical specification of equipment and services to be supplied.
- 2. The bidder must submit a guaranteed certificate of the availability of spare parts and services for the supplied equipment within the next ten (10) years upon completion of the project.
 - The Bidder shall submit a Company profile to showcase its experiences and expertise in manufacturing and installing TV transmitter equipment and system. The Bidder shall provide brand new equipment and accessories of reputable manufacturers with the latest make and model.
 - 4. The bidder shall include remarkable and significant features of the offered equipment such as but not limited to:
 - a. Remarkable Features
 - b. Energy efficiency
 - c. Failure rate d. Footprint / Density
 - e. Handling/Maintenance
 - f. Future Proof/ Ready
 - g. Reliability
 - h. Other features

The PCO shall determine and evaluate the equipment that has the best technical specifications and features that suits its requirements.

Whether a supplier may conduct the SAT by its local engineers instead of manufacturer's field engineer since the supplier's engineers are factory trained?

Whether the inspection of delivered equipment shall be conducted in Manila

Yes, the PCO BAC will allow the conduct of SAT by local engineers as long as the engineers are authorized and certified by the manufacturers.

Inspection of all equipment will be conducted at the site (Visayas Media Hub

SBB NO. 1 – 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) (Procurement/Contract No. 2023-PCO-079)

Page 3 of 10

X - - - - - - - - - - - - - - - - - - X

before shipping to the site?	Project at Barangay Subangdaku, Mandaue City, Cebu)
In case there is a need to return the defective units/parts to the manufacturer, will PCO allow the supplier to pull-out the defective part/unit after it installed the replacement units/parts?	Please see Section VII in the Terms of Reference: xxx VII. WARRANTY AND AFTER SALES SERVICE
	4. All defective components not capable of on-site repair shall be pulled out from PCO premises and may be sent back to the supplier. During the warranty period, the supplier shall cover all expenses incurred or related to the repair and shipment of the equipment/parts. The supplier shall provide and install within twenty-four (24) hours a temporary spare part while waiting for the product's replacement to ensure service continuity
Clarification of the DTT transmitter, is it single or dual exciter	1 set of dual exciter
Clarification on what is the power source onsite? Whether single phase or 3-phase? 208-240 or 380-415 Volts?	Three(3)-Phase, 380 VAC, Delta
For the headend, please provide the channel configuration (how many SD/HD). Do you need 1 SEG?	Two (2) HD (configurable to SD) + Two (2) SD + 1-Seg
Under Section VII of the Technical Requirement item 7.0 Spare parts	For TX: 1 unit – RF Amplifier and Power supply; Other Critical Spares
Please provide a list of spare parts that we need to supply.	For Headend: 1 unit – encoder board/module and power supply
Is 2.5 kW Power before or after the Bandpass Filter?	After Bandpass filter
Clarification on the main Power available in the site, Voltage, Single Phase or 3 Phase and Delta or Wye Connection?	Three(3)-Phase, 380 VAC, Delta
Clarification on the frequency	UHF Channel 42
Clarification on the size of Coaxial to be connected to the 3 port patch panel.	1 5/8"EIA
Whether do we need to add Harmonic Filter? R&S Transmitter does not need a harmonics filter for medium power transmitters. R&S Transmitter Harmonics: > 1.2GHz ≤ - 70dBc w/o channel bandpass and external harmonic filter.	It is necessary. However, if it is already a built-in design technology of the offered equipment, it is accepted.

Page 4 of 10

x - - - - - - - - - - - - - - x

Clarification on the Air-conditioning units whether the Committee can provide the size of the transmitter room.	25 square meter		
This is to indicate the capacity of the AC unit.			
Clarification on the headend item:			
 How many HD, SD and 1 seg do you need? Source of your content, via Satellite, 	1. Two (2) HD (configurable to SD) + Two (2) SD + 1-Seg		
Microwave or IP?	2. Distribution source is Satellite. It		
3. Input the encoder?	must be configurable for Microwave		
4. Do you need Mux or Remux?	and IP.		
5. Do you Stand Alone and Redundant?	3. SDI, IP, TS-ASI		
	4. Yes. Multiplexer		
	Stand-alone with spare one (1) encoder module.		
Clarification whether the Delivery Schedule will be extended to 120 days delivery.	Delivery of Schedule:		
	From : 90 Calendar Days		
Normal production of the transmitter is Ninety (90) days and sailing time is 30 days.	To: One Hundred Twenty Calendar Days		

C. Schedule of Activity

COMMENTS/ CLARIFICATION	ANSWER/RESPONSE
Whether the committee will extend the submission and Opening of Bids 31 October 2023 to 17 November 2023.	

SBB NO. 1 - 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) (Procurement/Contract No.
2023-PCO-079)
Page 5 of 10
$x - \cdots - x$

Price Schedule for Goods Offered from Abroad [shall be submitted with the Bid if bidder is offering goods from Abroad]								
			For G	Goods Offered fr	om Abroa	ad		
Na	me of Bidde	er		P	roject ID N	lo	Page of _	
1	2	3	4	5	6	7	8	9
Item	Descriptio n	Country of origin	Quantity	Unit price CIF port of entry (specify port) or CIP named place (specify border point or place of destination)	Total CIF or CIP price per item (col. 4 x 5)	Unit Price Delivered Duty Unpaid (DDU)	Unit price Delivered Duty Paid (DDP)	Total Price delivered DDP (col 4 x 8)
Le _s Sig	me: gal Capacity gnature: ly authorize	r:						

Section VII.I Detailed Technical Specifications

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)

Item No.	Item Description	Bidders shall comply with the following minimum Technical Specifications:	QTY	Statement of Compliance
1	UHF 2.5 kW Air–Cooled Digital TV Transmitter System with accessories	 Band IV/V UHF (Ch 42); Tunable; 6Mhz BW must be SFN, MFN and DFN configuration capable With Compresion / Decompresion Satellite/TS/IP Receiver/Decoder (remux) ready for 4-channel programs or a Full Head-End System [4-channel, atleast two (2) HD and two (2) SD] 100% Solid State Output Power: 2 .5 kW (ms) for ISDB-T Low VSWR Power Output Stability must be 0.5dB or better. Overall System Efficiency: Not less than 36% Spurious Emissions must be less than -60dBc/20Mw MER: Not less than 36db Output Connector: 1-5/8" EIA Electrical Input: Either 3-phase Delta For confirmation during site inspection 	1-set	
2	Exciter and Control System (w/ GPS Receiving System)	 Control Monitoring System: Fully digitized metering, fault indicators and control functions up to component level User friendly control panel with LCD touch screen display The monitoring control system should be able to display the necessary parameter such as but not limited to: Output Power Input Status 	1 set (Dual)	

		iii. Reflected Power iv. Source Voltage v. Cooling Temperature vi. Module Supply Voltage vii. Module Power Output viii. Drain Current (PA) ix. Amplifier Fault- Reflected Power, Over Drive, Over Heat and others. x. Power supply fault, excessive current, Output over voltage, over heat xi. Cooling system fault xii. Operation log/ history xiii. Exciter power output xiv. Peak Power Output		
		 Ethernet / SNMP input for local and remote network access Capable of integrating with 3rd party management programs PC Client: For control and monitor of the transmitter via LAN 		
		 Exciter System: Dual Exciter with Change-over Switch ISDB-T Digital Terrestrial Transmission Standard Frequency Agile Both ASI and IP BTS inputs GPS input (10MHz / 1PPS) for Synchronization and SFN operation Automatic Digital Precorrection capability Automatic gain control shall be incorporated to keep the visual and aural outputs constant under varying modulation level. Back-up Power Service: Equipped with an 		
3	RF Power	uninterruptible power supply (UPS) • 100% Solid State	1-set	
	Amplifiers			

Page 8 of 10

X ------

		- Narroushand Daharts		
		 Narrowband Doherty configuration with the latest UHF power LDMOS transistor technology (supplier should indicate the model of LDMOS transistor used by their transmitters) Optimized to Ch42; Can be turned to other channels within Band IV / V UHF with minimal technical calibrations Modular and Hot Swappable All power amplifiers should be identical and operates in parallel and should be interchangeable with one another. All RF amplifier modules shall be protected against over-temperature, overcurrent, over-drive, and reflected power. Each PA's power supply shall have surge protection device integrated. All modules shall be provided with suitable visual alarms to indicate faults within to facilitate identification. Visible Fault indicators Field Repairable 		
4	Cooling	Air Cooled	1-set	
	System	Includes Airconditioning system of the TX room	. 300	
5	Emergency Warning Broadcast System (EWBS) Server and Encoder	EWBS Operation must be as stated in the ISDB-T harmonization document Encoder: Low delay (0.7 Sec) Video Input: Multi Format, HDTV (1080i,1080p,720i,720p) SDTV (576i,480i,480p) Audio Input: Embedded Audio (8ch) Video Encoding: H.264 High Profile @ level 4.0 Audio Encoding: HE AAC profile v2 L4	1-set	

Page 9 of 10

x-----

		Audio Stream: LATM/LOAS and ADTS		
		Closed Caption:		
		Embedded in Input Signal and Outputted Subtitle Packet		
6	Spare Parts	 1 unit RF Power Amplifier Other replaceable (consumable) TX components, if there are any 	1 set (s)	

Table 2. Transmitter Output Network

	Table 2. Transmitter Output Network				
1	Transmitter Output Waveguide (Rigid Line)	 Rigid Line: 1-5/8" EIA I/O Connector 	1-lot		
2	Band Pass Filter	 Optimized to Ch42 Critical Mask for ISDB-T At least 2.5 kW (ms) power rating for ISDB-T Band IV/V UHF Air Cooled 	1-set		
3	Directional Coupler	 5 Probes At least 2.5 kW (ms) power rating for ISDB-T Band IV/V UHF 	1-set		
4	Harmonic Filter	 At least 2.5 kW (ms) power rating for ISDB-T Band IV/V UHF 	1-set		
5	3-Port Patch Panel	Includes the 1-5/8" U-Link	1-set		
6	Rigid Line Kit	 1-5/8" line sections, elbows, connectors, etc. for the interconnection of the transmitter system to the transmitter output network 	1-lot		

Table 3. Electrical System and Transmitter AC Protection System

1	Automatic Voltage	•	Supplier shall provide an electrical plan signed by a	1-set	
	Regulator		Registered Professional		
	Isolation	_	Electrical Engineer		
	Transformer	•	For confirmation to the existing AC power source		
	Transient		on site		
	Voltage Surge Suppressor	•	These equipments shall be with technical		

-			
X	 	 	X

			specifications conforming to electrical requirement of the system.		
4	Grounding System	•	Complete grounding system	1-lot	

Pursuant to Section 22.5 of the 2016 Revised Implementing Rules and Regulations of Republic Act No. 9184, this Supplemental/Bid Bulletin is issued for the information and guidance of all prospective bidders and shall form an integral part of the Bidding Documents issued for said the project.

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

BIDS AND AWARDS COMMITTEE SECRETARIAT

Presidential Communications Office 7th Floor, Times Plaza, UN Avenue Manila Telefax No. (02) 8734-5968

Email: bac1@pco.gov.ph Website: https://pco.gov.ph

For information and guidance.

(Original signed)

ASEC. EUGENE HENRY C. RODRIGUEZ

Chairperson
Bids and Awards Committee

Conforme:	
Signature over printed name	
Designation:	
Company:	
Date:	