



August 19, 2022

Contract Identification Number : 2022-07-214PB
Name of Contract : Purchase of Technical and Scientific Equipment for FY 2021 (Supply, Delivery, Installation, and Training) Negotiated Procurement-Two Failed Biddings
Location of the Contract/Project : Cogon, Dipolog City

Supplemental/Bid Bulletin

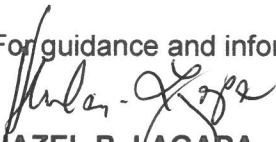
Addendum No. 1

This Addendum No. 1 is issued to modify or amend an item in the Bidding Documents. This shall form an integral part of the Bidding Documents, to wit:

Particulars	References	Amendment/Addendum
1. Payment of Bid Documents	Invitation to Bid (ITB), item no. 5	<p>Payment shall be made by a participating bidder on or before August 30, 2022, 10:00 in the morning, by sending through courier or money remittance centers the exact amount as in indicated in the ITB to the school's designated Cashier with the following details:</p> <p>ALLAN D. CALIBO 09483191317 adcalibo@zrc.pshs.edu.ph</p> <p>Participating bidders are advised to contact the cashier prior to or upon payment of the cost of the bidding documents. Moreover, bidders are advised to send an e-mail containing the scanned image or picture of the receipt as proof of payment.</p>
2. Prescribed Bidding Forms	GPPB's Website	May be accessed at https://www.gppb.gov.ph/downloadables.php

3. Technical Specifications	Technical Specifications & PBD Sections VI & VII	Change of items in the technical specifications (full description) LOT 1 (Full description in the separate sheets)
4. Bid Data Sheet (BDS)	BDS (ITB Clause 19.3)	From: Three (3) lots To: Two (2) lots

For guidance and information to all concerned.


HAZEL R. LAGAPA
 BAC Chair (Goods)



**TECHNICAL SPECIFICATIONS
PURCHASE OF TECHNICAL AND SCIENTIFIC EQUIPMENT FOR FY 2021
(SUPPLY, DELIVERY, INSTALLATION, AND TRAINING)
NEGOTIATED PROCUREMENT-TWO FAILED BIDDINGS**

BACKGROUND AND RATIONALE

The Philippine Science High School System prepares its students to become globally competitive Filipino scientists equipped with 21st-century skills. Likewise, the PSHSS offers a curriculum that emphasizes science and mathematics and prepares its students for careers in Science and Technology. The Philippine Science High School System offers a research-based STEM curriculum to students with high aptitude in Science and Mathematics. PSHS also provides avenue for those students whose passion and interest are leaned towards the arts, culture, music, languages and other forms of humanistic expressions. In line with this, there is a need to have several technical sets of equipment to help prepare and develop the holistic skills of the scholars to become globally competitive Filipino scientists and professionals someday.

SCOPE OF WORK AND JOB SPECIFICATIONS

The supplier must be a certified distributor and should be able to provide the listed technical equipment following the specifications, certifications, and unit demonstration if necessary. The supplier must conduct training for the end-users on proper handling, troubleshooting, pre-calibration, preventive maintenance, and others. As such, the supplier should have their own certified technical personnel for the particular equipment. Certificates must be provided such as calibration certificate, quality control or assurance certificate, and others. The service provider must conduct a pre-installation conference with the resident engineers of the procuring entity. The service provider must be in the business for not less than 5 years. The delivery and installation period will be 90 days.

APPROVED BUDGET FOR THE CONTRACT

The approved budget for the contract for Lot 1 is ONE MILLION AND ONE HUNDRED SIXTY THOUSAND PESOS (1,160,000.00), and lot 3 with ONE MILLION PESOS (1,000,000.00)

EVALUATION AND SELECTION CRITERIA

Proposal with the lowest calculated and responsive bid with complete documents shall be accepted.

PAYMENT SCHEME

Payment for the procured items shall be made utmost 30 working days from the day the said items are completely installed to the procuring entity and certificate of training is issued to the end-users.



Item No.	LOT NO. 1				
	Unit	ITEM DESCRIPTION	Qty	Unit Cost (Php)	Total Cost (Php)
	LOT	Supply and Delivery of Physics Amateur Radio Satellite Ground Station Equipment	1		1,160,000.00
1	unit	<p>All Mode VHF/UHF Transceiver</p> <p>Frequency coverage : 144.000–148.000, 430.000–450.000, 1240.000–1300.000 MHz</p> <p>Mode: SSB, CW, RTTY, AM, FM, DV, DD</p> <p>Number of channels: 107 (99 Simplex + 6 Program scan edges + 2 CALL) × 3 bands, 99 (Satellite), 2500 (DR function)</p> <p>Antenna connectors: 144 MHz SO-239 (50 Ω), 430/440, 1200 MHz Type-N (50 Ω)</p> <p>Power supply requirement: 13.8 V DC ±15% (Negative ground)</p> <p>Transmitter Output power (144 MHz) 144 MHz 430/440 MHz 1200 MHz</p> <p>SSB/CW/FM/RTTY/DV/DD 0.5–100 W 0.5–75 W 0.1–10 W</p> <p>AM 0.125–25 W 0.125–18.75 W 0.025–2.5 W</p> <p>Receiver Receiver system:</p> <p>Audio output power: More than 2.0 W (1 kHz, 10% distortion) into an 8 Ω load</p> <p>NTC radio station licensing 1 year, unit registration, Permits – purchase/posses/ Construct, ntc processing Fees, PECE signature & Stamping/certification, Network diagram & other Technical documents, radio Permits/license, notary.</p>	1		



4	unit	Antenna Azimuth Rotator and Controller Power Supply Voltage: 117/220 VAC, 50-60 Hz Power Supply Current Consumption: 1.0 A Rotor Voltage: 11-24 VDC Cable Conductors Required: 6 360° Rotation Time (Non Loaded): 100 ± 10 sec to 0 40 ± 5 sec (Variable) Rotation Range: 450° ± 3° Rotation Torque: 600 to 1,100 kgf-cm Braking Torque: 4,000 kgf-cm Maximum Vertical Load: 200 kg or less (continuous)800 kg (momentary) Braking Type: Mechanical and Electrical stoppers	1		
5	unit	Computer Control Interface for Antenna Rotators Power Requirements: DC 12 V, 110 mA Semiconductors Microprocessor: ROM: HD6303XP RAM: 27C64 A/D Converter: HD46508PA (10 bits) Serial Comms: 3-wire Async. DCE RS-232C voltage levels: 150 to 9600 baud, 8 data bits, 1 stop bit, no parity, no handshake	2		
6	Length	Coax Cable (Low Loss Cable) Generic Name: LMR-400 Flex Type: Flexible Impedance: 50 Ohm Dielectric Type: PE (F) Velocity of Propagation: 85 % Jacket Material: PE No. of Shields: 2 Attenuation at 1 Ghz.: 4.25 dB RF Shielding: 90 dB Frequency, Max: 6 GHz Max Operating Temperature: 85° C Center Conductor Type: Solid Coax Type: Coax	50 m		
7	unit	VHF/UHF Preamplifier Preamplifier Location: Mast mount Preamplifier Frequency Range: 144-148 MHz Preamplifier Gain: 15 dB/25 dB	2		



2	unit	<p>HF/50MHz All Mode Transceiver</p> <p>Frequency coverage Rx: 0.030– 60.000 MHz</p> <p>Tx: 1.800–1.999, 3.500–3.999, 5.255–5.405 7.000–7.300, 10.100–10.150, 14.000–14.350, 18.068–18.168, 21.000–21.450, 24.890–24.990, 28.000–29.700, 50.000–54.000 MHz</p> <p>Mode: USB, LSB, CW, RTTY, PSK31/63, AM, FM</p> <p>Number of channels: 101 (99 regular, 2 scan edges)</p> <p>Antenna connectors: SO-239 × 2 (50 Ω unbalanced (Tuner off))BNC × 1 (RX antenna In/Out)</p> <p>Power supply requirement: 13.8 V DC ±15%</p> <p>Power consumption TX: 23 A (at 100 W output power) RX: 3.0 A (Standby), 3.5 A (Maximum audio)</p> <p>Transmitter Output power (HF/50 MHz): SSB/CW/FM/RTTY/PSK: 1–100 WAM: 1–25 W Digital P.S.N.</p> <p>Receiver Receiver system: Direct Sampling Super heterodyne</p> <p>NTC radio station licensing 1 year, unit registration, Permits – purchase/posses/ Construct, ntc processing Fees, PECE signature & Stamping/certification, Network diagram & other Technical documents, radio Permits/license, notary.</p>	1		
3	unit	<p>Antenna Azimuth-Elevation Rotator and Controller</p> <p>Voltage requirement: 200-240 VAC Motor voltage: 24 VAC(apprx., @60Hz): Rotation time: Elevation (180°): 67 sec. Azimuth (360°): 58 sec Maximum continuous operation: 5 minutes Rotation torque: Elevation: 14 kg-m, Azimuth: 6 kg-m</p> <p>Braking torque: Elevation: 40 kg-m, Azimuth: 40 kg-m Vertical load: 200 kg Pointing accuracy: ± 4 % Wind surface area: 1 m Control cables: 2 x 6 conductors - #20 AWG or larger</p>	1		



		Noise Figure: under 1.0 dB Automatic RF Switching Power Handling: 100 W Antenna Feedline Connection Type: UHF female, SO-239 Optimal Voltage Range: 13.6-15 Vdc			
8	unit	SM-50 (Microphone) Microphone Element: Dynamic Sensitivity: -30 dB ± 4dB (1 kHz, 0 dB = 1 V/1 Pa) Impedance: 55 Ohms ± 30% (at 1 kHz) Power requirement: 5-10 VDC	1		
9	unit	Power Supply Power Supply Type: Linear, Regulated Power Supply Continuous Output: 23A at 13.8 Vdc Power Supply Peak Output: 30A or better at 13.8 Vdc Power Supply Metering Type: Dual meters Power Supply Cooling Type: Fan	2		
10	unit	144/430(2m/70cm) Dual Band Antenna Vertical Antenna Height: 24 ft. Antenna Material: Fiberglass Antenna Power Rating: 200 W Antenna Connector: Type N, female Mast Mounting Type: Clamp-on	2		
11	unit	Handheld Transceiver (Digital 2way Radio) Frequency Ranges: A(Main) Band RX: TX: 0.5 - 1.8MHz (AM Broadcast) 1.8 - 30MHz (SW Band) 30 - 76MHz (50MHz HAM) 76 - 108MHz (FM Broadcast) 108 - 137MHz (Air Band) 137 - 174MHz (144MHz HAM) 174 - 222MHz (VHF TV) 222 - 420MHz (GEN1) 420 - 470MHz (430MHz HAM) 470 - 800MHz (UHF Band) 800 - 999.90MHz (GEN2, USA Cellular Blocked) B(Sub) Band RX: 108 - 137MHz (Air Band) 137 - 174MHz (144MHz HAM) 174 - 222MHz (VHF) 222 - 420MHz (GEN1) 420 - 470MHz (430MHz HAM) 470 - 580MHz (UHF Band) 144 - 148MHz, 430 - 450MHz	2		



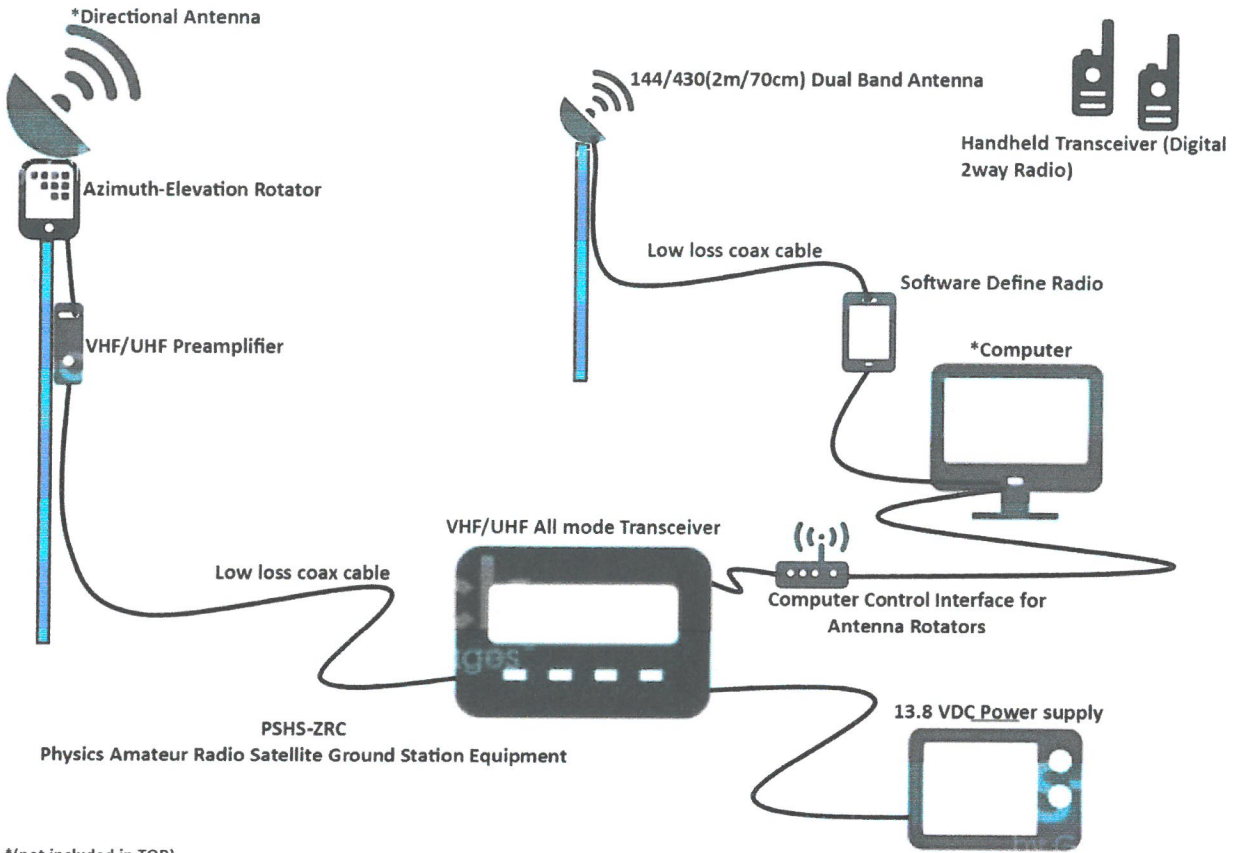
		<p>NFM/ AM :Double-Conversion Super heterodyne Direct-Conversion Circuit Type: FM /AM Radio: Modulation Type: F1D, F2D, F3E, F7W RF Power Output: 5W/ 2.5W/ 1W/ 0.3W Memory Channels: 1256 Waterproof Rating: IPX5</p> <p>NTC radio station licensing 1 year, unit registration, Permits – purchase/posses/ Construct, ntc processing Fees, PECE signature & Stamping/certification, Network diagram & other Technical documents, radio Permits/license, notary.</p>			
12	unit	<p>HF Dipole Antenna Frequency range: 1.9 to 30 MHz Power rating: 150 Watt Input impedance: 50 Ohm VSWR: Less than 2:1 (1.9 to 18 MHz), less than 2.5:1 (18 to 30 MHz)</p> <p>Length: 24.5 m (80.4 ft)</p> <p>Coaxial feed line: 30 m (90.4 ft) with PL-259 plug</p>	1		
13	unit	<p>HF/VHF Digital SWR/Wattmeter Meter Frequency Range: 1.8-60/125-525 MHz Minimum Power Range: 2W Middle Power Range: 20 W Maximum Power Range: 200 W Meter Style: LCD Multi-function display Meter RF Connector Type: UHF female, SO-239 External Power Input Voltage: 10-14 Vdc</p>	1		



Republic of the Philippines

DEPARTMENT OF SCIENCE AND TECHNOLOGY

PHILIPPINE SCIENCE HIGH SCHOOL – Zamboanga Peninsula Region Campus



With *(not included in TOR)