



*Republic of the Philippines*  
*Department of Science and Technology*  
**PHILIPPINE SCIENCE HIGH SCHOOL - CENTRAL MINDANAO CAMPUS**  
**BIDS AND AWARDS COMMITTEE**

Nangka, Balo-i, Lanao del Norte  
Telephone Nos. (063) 836-0098  
[www.cmc.pshs.edu.ph](http://www.cmc.pshs.edu.ph)

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## INVITATION TO BID FOR THE SUPPLY, DELIVERY AND COMMISSIONING OF LABORATORY TOOLS AND EQUIPMENT

1. The **PHILIPPINE SCIENCE HIGH SCHOOL-CENTRAL MINDANAO CAMPUS**, through the *General Appropriation Act for FY 2017 (RA No. 10924)* intends to apply the amount of One Million Nine Hundred Fifty Thousand Pesos &00/100 (PhP 1,950,000.00) being the Approved Budget for the Contract (ABC) to payments under the contract for **CMC GOODS 17-06-006**. Bids received in excess of the ABC for each item shall be automatically rejected at bid opening.
2. The **PHILIPPINE SCIENCE HIGH SCHOOL-CENTRAL MINDANAO CAMPUS** now invites bids for procurement of tools and equipment to be used as instructional materials in the classroom and in the laboratory. The award of this project is in per line item basis. Delivery of the Goods is required one hundred eighty (180) calendar days upon receipt of the Purchase Order. Bidders should have completed a single contract that is similar to the contract to be bid, and whose value, adjusted to current prices using the National Statistics Office (NSO) consumer price indices, must be at least fifty percent (50%) of the ABC. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II. Instructions to Bidders. The following are the items and its description:

ITEM NO.	DESCRIPTION (Per Line Item Basis)	QUANTITY	UNIT	UNIT COST	TOTAL AMOUNT
1	<b>General Purpose Water Bath:</b> <ul style="list-style-type: none"><li>✓ 20 liter reservoir capacity</li><li>✓ 100°C max temperature and ambient temperature for minimum</li><li>✓ At least 30 inches length, 15 inches width, 12 inches in height</li><li>✓ 220V power</li></ul>	1	unit	100,000.00	100,000.00
2	<b>Fume Hood</b> <ul style="list-style-type: none"><li>✓ Made of chemical/flammable resistant material,</li><li>✓ with built-in sink</li><li>✓ at least 800x556x981-1150mm (LxDxH)</li><li>✓ electrical fixtures and cabinet underneath</li><li>✓ maximum standard inside air circulation/suction capacity</li><li>✓ standard steel frames and fixture</li><li>✓ designed for weighing station</li><li>✓ high efficiency LED fluorescent lighting 500 lux</li><li>✓ horizontal sash design</li><li>✓ include raisers to eliminate baffle blockage</li></ul>	1	unit	300,000.00	300,000.00
3	<b>Laboratory Muffle Furnace</b> <ul style="list-style-type: none"><li>✓ at least 5 liters (350 cu. In) in capacity</li><li>✓ ceramic chamber</li><li>✓ chamber dimension (WxHxD) at least 17.8x12.7x25.4cm</li><li>✓ 100°C minimum tempo 1,200 max temperature</li></ul>	1	units	300,000.00	300,000.00

	<ul style="list-style-type: none"> <li>✓ Complete with accessories if any</li> <li>✓ Ceramic shelf</li> </ul>				
4	<b>Organic Distillation Kit</b> <ul style="list-style-type: none"> <li>✓ Heavy duty GG17 Borosilicate glass</li> <li>✓ 24/29 standard taper ground joint glassware</li> <li>✓ At least 10 plastic joint clips</li> <li>✓ At least includes 250mL and 500 mL heavy duty bottom flasks</li> <li>✓ A thermometer jacket tube</li> <li>✓ Four glass stoppers</li> <li>✓ Storage box with foam insert cut to hold each piece of glassware</li> <li>✓ For distillation, extraction, synthesis, reactions, and other organic chemistry processes</li> </ul>	1	unit	70,000.00	70,000.00
4	<b>Moto – Saw Tool Set (to include the following kits)</b> <ul style="list-style-type: none"> <li>✓ <b>10 units Moto-Saw Kit</b> with fast-clamp base, vacuum adapter, storage case and 10 assorted accessories</li> <li>✓ <b>10 units Saw-Max Kit</b> with dust port adapter, storage case and 4 assorted accessories</li> </ul>	10	set	16,000.00	160,000.00
5	<b>Rotary Tool Set (to include the following kits)</b> <ul style="list-style-type: none"> <li>✓ <b>15 units platinum rotary tool kit</b> with EZ twist, variable speed, sealed ball bearing motor separate on-off switch, double hull construction and accessories and attachment for grinding/sharpening, carving/engraving, cutting, cleaning/polishing, sanding, miscellaneous</li> <li>✓ <b>15 units professional rotary tool kit</b> with EZ twist, variable speed, electronic feedback separate on-off switch, high performance motor, 360 deg grip zone, quick collet lock and accessories and attachment</li> </ul>	15	set	18,000.00	270,000.00
6	<b>Drill Press</b> <ul style="list-style-type: none"> <li>✓ Power: 302W</li> <li>✓ Capacity: 16mm, 736mm ht</li> <li>✓ Spindle taper: jt33</li> <li>✓ Spindle travel: 50mm</li> <li>✓ Distance from spindle to column: 132mm</li> <li>✓ Column diameter: 44mm</li> <li>✓ Table size: 194 x 165mm</li> <li>✓ Base size: 318 x 186mm</li> <li>✓ Net wt: 22.5kg</li> </ul>	10	unit	25,000.00	250,000.00
7	<b>Arduino Intermediate Kit (to include the following accessories per kit)</b> <ul style="list-style-type: none"> <li>✓ AC/DC 9V – 2A Power Adapter with cable x1</li> <li>✓ Digital relay module x 1</li> <li>✓ Analog ambient light sensor x 1</li> <li>✓ Digital vibration sensor x 1</li> <li>✓ Digital push button x 1</li> <li>✓ Digital piranha LED light module (Red) x 1</li> <li>✓ Digital buzzer module x 1</li> <li>✓ Analog sound sensor x 1</li> <li>✓ Vibration sensor x 1</li> <li>✓ Analog rotation sensor V1 x 1</li> <li>✓ I2c/TWI LCD 1602 module x 1</li> <li>✓ DHT11 temperature and humidity sensor x 1</li> <li>✓ Shiftout module x 1</li> <li>✓ Flame sensor for arduino) x 1</li> <li>✓ IR Remote kit x 1</li> <li>✓ DFRduino UNO Rev3 x 1</li> <li>✓ IO expansion shield V7 x 1</li> <li>✓ Digital infrared motion sensor x 1</li> <li>✓ Analog gas sensor (MQ2) x 1</li> <li>✓ 9g micro servo (1.6kg) x 1</li> <li>✓ Jumper wires 9" F/F x 5</li> <li>✓ USB cable A-B for arduino x 1</li> <li>✓ 6xAA Battery Holder with DC2.1 Power Jack x 1</li> </ul>	30	unit	10,000.00	300,000.00
8	<b>Arduino Compatible Sensors and Shields (to include the</b>	1	lot	100,000.00	100,000.00

	<b>following)</b> ✓ Capacitive touch shield – 5pcs ✓ Dual channel H-bridge motor shield – 3 pcs ✓ GSM GPS GPRS shield – 2 pcs ✓ LCD keypad shield – 5 pcs ✓ Anemometer kit – 2pcs ✓ Barometer, pressure/temperature sensor – 5pcs ✓ Current sensor AC/DC 50A – 3pcs ✓ Color sensor – 3pcs ✓ Carbon monoxide analog sensor – 3pcs ✓ Flame sensor – analog/digital – 4pcs ✓ Flex/bend long sensor – 3pcs ✓ Float switch plastic water level control – 3 pcs ✓ Force sensitive resistor – 4pcs ✓ Gas analog sensor – 4 pcs ✓ Light sensor digital – 5 pcs ✓ Load cell sensor 50kg – 4pcs ✓ PIR motion sensor module – 10pcs ✓ Rain steam sensor – 5 pcs ✓ Soil moisture sensor – 5pcs ✓ RTC real time clock chronodot ultra precise v2.1 – 2pcs ✓ Sound sensor analog – 4 pcs ✓ Temperature and humidity sensor – 5 pcs ✓ Tilt sensor module – 10pcs ✓ Non-contact liquid level switch – 3pcs ✓ UV sensor – 5pcs ✓ Vibration sensor module - 5 pcs ✓ Voltage level indicator – 5pcs ✓ Water flow sensor G1 – 5pcs ✓ Temperature infrared sensor – 5pcs ✓ Weight sensor kit – 5 pcs ✓ Waterproof integrated ultrasonic ranging module – 5pcs				
9	<b>CAD Plotter/Printer</b> ✓ Printing size: A1 & BL ✓ Memory size: 258MB ✓ Print quality: up to 1200 x 1200 dpi ✓ Power: 4.5 watts ✓ Connectivity: USB 2.0, wifi, fast ethernet ✓ 1 full year warranty	1	unit	100,000.00	100,000.00
	<b>TOTAL ABC</b>			<b>PhP 1,950,000.00</b>	

- Bidding will be conducted through open competitive bidding procedures using a non-discretionary “pass/fail” criterion as specified in the 2016 Revised Implementing Rules and Regulations (IRR) of Republic Act (RA) 9184, otherwise known as the “Government Procurement Reform Act”. The award is per item basis.

Bidding is restricted to Filipino citizens/sole proprietorships, partnerships, or organizations with at least sixty percent (60%) interest or outstanding capital stock belonging to citizens of the Philippines, and to citizens or organizations of a country the laws or regulations of which grant similar rights or privileges to Filipino citizens, pursuant to RA 5183.

- Interested bidders may obtain further information from Philippine Science High School – Central Mindanao Campus and inspect the Bidding Documents at the address given below during 8am to 4pm only.

A complete set of Bidding Documents may be purchased by interested Bidders from June 7-27, 2017 from the address below and upon payment of a nonrefundable fee for the Bidding Documents in the amount of Two Thousand Pesos Only and 00/100 (P2,000.00) to the PSHS-CMC Cashier.

It may also be downloaded free of charge from the website of the Philippine Government Electronic Procurement System (PhilGEPS) and the website of the Procuring Entity, provided that Bidders shall pay the applicable fee for the Bidding Documents not later than the submission of their bids.

6. The Philippine Science High School-Central Mindanao Campus will hold a Pre-Bid Conference on June 15, 2017, 9AM @ Philippine Science High School-Central Mindanao Campus, Nangka, Baloi, Lanao del Norte, which shall be open to prospective bidders.
7. Bids must be duly received by the BAC Secretariat at the address below on or before June 27, 2017, 9:00AM. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in ITB Clause 18.

Bid opening shall be on June 27, 2017, 9:01AM at PSHS-CMC, Nangka, Baloi, Lanao del Norte. Bids will be opened in the presence of the Bidders' representatives who choose to attend at the address below provided that they will submit an authorization letter signed by the bidder. Late bids shall not be accepted.

8. The Philippine Science High School-Central Mindanao Campus reserves the right to reject any bid and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Section 41 of RA 9184 and its IRR, without thereby incurring any liability to the affected bidder or bidders.

9. For further information, please refer to:

**IAN CRIS L. CADILE**

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**ENGR. RACHEL P. MACAMAY**

BAC Chairperson

Philippine Science High School-

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Nangka, Baloi, Lanao del Norte