



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
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INVITATION TO BID FOR THE SUPPLY, DELIVERY AND COMMISSIONING OF LABORATORY 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 Nine Million Eight Hundred Thirty Two Thousand Five Hundred Pesos & 00/100 (PhP 9,832,500.00) being the Approved Budget for the Contract (ABC) to payments under the contract for **CMC GOODS 17-07-007**. 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 equipment and for instructional materials 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	Microscope <ul style="list-style-type: none">✓ Monocular✓ Compound light✓ Monocular rechargeable illumination system✓ With 4 objectives (scanning, low power, high power, and oil immersion)✓ Maximum magnification: 1000x✓ Head rotates 360°✓ Rotating 10x eye piece✓ With separate eyepiece that has a micrometer and pointer✓ Includes a dust cover✓ 110mm x 120mm graduated mechanical stage✓ An Abbe N.A. 1.25 condenser rack and pinion control✓ Iris diaphragm, filter holder, blue filter and a 6-ft cord with three- prong plug	35	unit	30,000.00	1,050,000.00
2	Microscope <ul style="list-style-type: none">✓ Binocular✓ Compound light✓ With digital camera (3 megapixel or higher) and USB port✓ Rechargeable illumination system✓ With 4 objective (scanning, low power, high power, and oil immersion)✓ Maximum magnification: 1000x	6	unit	150,000.00	900,000.00

	<ul style="list-style-type: none"> ✓ Head rotates 360° ✓ Rotating 10x eyepiece ✓ With separate eyepiece that has a micrometer and pointer ✓ Includes a dust cover ✓ 110mm x 120mm graduated mechanical stage ✓ An Abbe N.A. 1.25 condenser rack and pinion control ✓ Iris diaphragm ✓ Filter holder ✓ Blue filter ✓ 6-ft cord with three-prong plug 				
3	<p>Pipette</p> <ul style="list-style-type: none"> ✓ 0.5 to 5mL ✓ Fully autoclavable – no disassembly required ✓ Adjustable volume ✓ Single channel ✓ Increments 100µL ✓ 1-2 years warranty ✓ Does not require recalibration after autoclaving ✓ Two step plunger operation ✓ Easy volume setting ergonomic design ✓ With tools for calibration and disassembly and free pipette tips 	3	unit	20,000.00	60,000.00
4	<p>Pipette</p> <ul style="list-style-type: none"> ✓ 100 to 1,000µL ✓ Fully autoclavable – no disassembly required ✓ Adjustable volume ✓ Single channel ✓ Increments 10µL ✓ 1-2 years warranty ✓ Does not require recalibration after autoclaving ✓ Two step plunger operation ✓ Easy volume setting ergonomic design ✓ With tools for calibration and disassembly and free pipette tips 	3	unit	20,000.00	60,000.00
5	<p>Pipette</p> <ul style="list-style-type: none"> ✓ 10 to 100µL ✓ Fully autoclavable – no disassembly required ✓ Adjustable volume ✓ Single channel ✓ Increments 1µL ✓ 1-2 years warranty ✓ Does not require recalibration after autoclaving ✓ Two step plunger operation ✓ Easy volume setting ergonomic design ✓ With tools for calibration and disassembly and free pipette tips 	3	unit	20,000.00	60,000.00
6	<p>Laboratory Work Table</p> <ul style="list-style-type: none"> ✓ Heavy duty ✓ With height adjustable legs (28 to 34”H at 2” increments) ✓ With adjustable leveling floor guides and leveling floor plates ✓ Quick and easy assembly ✓ With 2 drawers below tabletop 	18	unit	40,000.00	720,000.00

	<ul style="list-style-type: none"> ✓ With a shelf underneath to hold bags and materials ✓ Epoxy resin tops or other materials that is resistant to chemical (acid/base) spills ✓ Constructed for durability ✓ Designed to accommodate installation of electric outlets and gas outlets 				
7	<p>Laboratory Work Table</p> <ul style="list-style-type: none"> ✓ 3.5 meter seven cabinet assembly ✓ With reagent shelf, sink and fixtures ✓ Powder-coated steel or epoxy-coated painted steel ✓ 1" thick epoxy work surface ✓ With 7 cabinets and black epoxy resin sink ✓ Sink must include a deck-mount faucet, sink hangers, and plastic P-trap ✓ Must include two double faced electrical and gas outlet boxes and single service faucet with cup ✓ With height adjustable legs at 2" increments ✓ Adjustable leveling floor guides and leveling foot plates constructed for durability ✓ And designed to accommodate installation of electric and gas outlets dimensions, cm (wxhxd): 350x92x137 	2	unit	300,000.00	600,000.00
8	<p>Food Grade Laboratory Table</p> <ul style="list-style-type: none"> ✓ Stainless steel ✓ With lower shelf ✓ 60 inches ✓ Long and 24 inches deep ✓ Extra heavy-duty top with a 1-1/4" tall ✓ Backsplash ✓ Rounded front and back edges ✓ Adjustable height under-shelf ✓ Adjustable height non-marring feet 	5	pc	40,000.00	200,000.00
9	<p>Electric Autoclave/Steam Sterilizer</p> <ul style="list-style-type: none"> ✓ Reservoir capacity: 25Qts. ✓ Chamber capacity: 13.7L ✓ Dimensions: 16-3/4"H x 12-1/2"D ✓ Power: 240VAC, 50/60Hz ✓ Made of aluminum alloy with alumninum racks ✓ Automatic overpressure release ✓ Setting of 5 psi, 10 psi and 15 psi ✓ With thermostat and pilot light ✓ With flexible metal exhaust tube and pressure gauge ✓ Valve control and three-wire power cord with plug with support base to elevate sterilizer by 1-2" 	2	unit	50,000.00	100,000.00
10	<p>Multi-Parameter Portable Meter</p> <ul style="list-style-type: none"> ✓ Capable of measuring pH, temp, TDS, EC, dissolved oxygen ✓ Measurement: pH (0.00-14.00), temp (-5.0 – 105.0°C), TDS (0.1mg/L – 600g/L or 0-2000 ppm), EC (0-3,999µS/cm), DO (0.00 – 50.00 mg/L) ✓ Resolution: pH (0.01), temp (0.1), TDS (0.1), EC (0.1), DO (0.01) ✓ Battery operated ✓ With lanyard ✓ Watertight housing ✓ Backlit display ✓ Handy, light-weight and easy to operate ✓ With compact carrying case with data storage ✓ Includes necessary accessories such as calibration standards ✓ Sample bottles and others 	5	unit	75,000.00	375,000.00

11	Turbidity Meter <ul style="list-style-type: none"> ✓ Handy, light-weight and easy to operate ✓ With compact carrying case and lanyard ✓ With data storage measurement: 0 – 1000NTU ✓ Includes necessary accessories ✓ (calibration standards 0.02-10.00 and 1000 NTU) ✓ Empty cuvettes ✓ Sample bottles and batteries 	5	unit	65,000.00	325,000.00
12	Turbidity Meter <ul style="list-style-type: none"> ✓ Benchtop ✓ Measurement: 0-1000 NTU or higher ✓ Includes necessary accessories ✓ Calibration standards: 0.02-10.0 and 1000 NTU, empty cuvettes, sample bottles etc ✓ Includes operating manual ✓ With provisions for maintenance and troubleshooting ✓ 1-2 years warranty 	1	unit	150,000.00	150,000.00
13	Utility Cart <ul style="list-style-type: none"> ✓ All stainless steel ✓ 5” heavy duty wheels, swivel locking for laboratory use ✓ 3 shelves with sidings on the top shelf to prevent spillage ✓ 27”L x 15-3/4”W x 32”H ✓ With bumpers for corner protection ✓ Easy assembly ✓ Solid construction ✓ Acid-resistant surfaces 	6	unit	15,000.00	90,000.00
14	Chemical Storage Cabinets <ul style="list-style-type: none"> ✓ Acid/flammable storage ✓ Made of acid/flame resistant material ✓ 60” H x 48”W x 21” D ✓ 96 gallon capacity ✓ 4 storage areas (adjustable shelves) ✓ Side air inlet ✓ Top exhaust outlet with 2” deep spill containment base area ✓ Locking ✓ Three point system can be locked for security purposes 	5	unit	40,000.00	200,000.00
15	Storage Cabinets, Food Grade <ul style="list-style-type: none"> ✓ Stainless steel ✓ 2 sliding doors ✓ 26” height, 16” width, 56” length ✓ Soft opening and closing ✓ Rounded corners ✓ Easy to clean 	5	pc	25,000.00	125,000.00
16	Toploading Balance <ul style="list-style-type: none"> ✓ Battery or AC Power: uses 4 AA batteries with auto shut-off feature or can be run on AC power pack ✓ Multiple weighing units ✓ Easy to clean – remove stainless ✓ Steel weighing platform ✓ Sealed front panel and molded spill ring ✓ portable ✓ With free hard-shell carrying case ✓ Capacity: 600g ✓ Linearity: ± 0.01g ✓ Energy saving ✓ LCD display ✓ Built-in calibration (internal or external) ✓ 1-2 years warranty 	6	unit	30,000.00	180,000.00
17	Laboratory Oven <ul style="list-style-type: none"> ✓ aluminum chamber ✓ excellent temperature uniformity 	2	unit	300,000.00	600,000.00

	<ul style="list-style-type: none"> ✓ double-pane glass window located in door for easy viewing of samples ✓ magnetic latch for positive door closure ✓ supplied with 2 removable metal shelf for maximum sample capacity ✓ three-wire cord and plug ✓ temperature: ambient +5 °C – 140 °C ✓ voltage: 220V ✓ three shelves with lock 				
18	<p>Emergency Shower and Eyewash</p> <ul style="list-style-type: none"> ✓ shower/eyewash (hand operated/foot operated) ✓ both showers can either be operated singularly or simultaneously ✓ showers are fitted with pull chain for body shower as well as foot ✓ operated for face wash ✓ pipe: stainless 301 grade ✓ self closing valve: stainless 301 grade ✓ bowl for eyewash: chrome plated brass ✓ eyewash nozzles: chrome plated brass ✓ shower head: chrome plated brass ✓ foot pedal: stainless grade 301 ✓ spring: stainless steel grade 301 ✓ pull chain: stainless steel 301 ✓ durable 	3	unit	50,000.00	150,000.00
19	<p>Laminar Flow Hood</p> <ul style="list-style-type: none"> ✓ standard type, 1800x600x1800mm (WxDxH) external size ✓ base stand of at least 650mm ✓ LED display ✓ With anti-bacteria coating ✓ Stainless work table ✓ Glass front window with anti-ultraviolet radiation ✓ Noise: <50dB ✓ Caster: universal wheel with brake ✓ Power: 220V ✓ With standard accessory (flourescent, etc) 	1	unit	300,000.00	300,000.00
20	<p>Portable pH meter</p> <ul style="list-style-type: none"> ✓ Compact, portable, and waterproof ✓ Unbreakable sensor ✓ Three-point calibration and auto buffer recognition ✓ pH range: 0.00 – 14.00 ✓ resolution:pH (0.01), temp (0.1°C) ✓ temperature compensation: auto ✓ calibration: 3 pH points ✓ LCD display ✓ With accessories 	5	unit	15,000.00	75,000.00
21	<p>Rotary Evaporator</p> <ul style="list-style-type: none"> ✓ RV 10 control with advanced technology ✓ Automatic solvent boiling point detection ✓ Integrated solvent ✓ Library (extendible by the customer) ✓ Integrated vacuum controller ✓ USB interface and graphical display ✓ Direct connection to a speed-controlled pump possible ✓ Automatic monitoring of heating bath temperature ✓ Online firmware update via USB if possible ✓ Complete and customized system solution through combination of a rotary evaporator ✓ A vacuum pump and a chiller 	1	unit	350,000.00	350,000.00
22	<p>Spectrophotometer</p> <ul style="list-style-type: none"> ✓ Double beam UV/Vis ✓ Scanning designed 	1	unit	500,000.00	500,000.00

	<ul style="list-style-type: none"> ✓ Measurement range: 190-1100 nm ✓ Suitable for bio/chemical lab ✓ Handles routine applications such as quantitative analyses, kinetics, spectrum scanning, multiple components, and DNA/Protein with software ✓ User friendly ✓ Photometric range: 0%-200% T ✓ Photometric repeatability: better than 0.2%T ✓ Scanning speed: low, medium, high ✓ Can load 5 samples at a time ✓ Power: 220V ✓ With accessories if applicable ✓ 1-2 years warranty 				
23	<p>Vortex Mixer</p> <ul style="list-style-type: none"> ✓ Adjustable speed control from 250 to 2500 rpm ✓ Compact and touch activated ✓ Silicone feet and ultra-high ✓ Vibration dampening base ✓ Self ventilated motor to avoid overheating ✓ Includes standard attachment for small glasses and 6-ft power cord ✓ Maximum load: 0.5 kg (1.1lb) ✓ 1-2 years warranty 	2	unit	50,000.00	100,000.00
24	<p>Analytical Balance</p> <ul style="list-style-type: none"> ✓ Weight capacity: 420 grams or more ✓ Readability: 0.001 ✓ Subtractive tare range ✓ Repeatability: 0.001 ≤+ g ✓ Linearity: 0.002 ≤+ g ✓ Net weight: approx 6.5 kg. ✓ Power: 220V ✓ Response time: 2.5 sec average ✓ 1-2 years warranty ✓ With selectable weight units 	3	unit	250,000.00	750,000.00
25	<p>Induction Oven with Burners</p> <ul style="list-style-type: none"> ✓ 90 cm cooking range ✓ Burners/hotplate: 5 induction cooking zones ✓ 142 liters ✓ Electric oven – multifunction, electric grill (HxWxD) 860-965x897x600mm ✓ Stainless steel squared worktop design ✓ Stainless steel upstand ✓ Metal knobs ✓ Fan assisted electric oven ✓ Closed door grilling ✓ Touch programmer end-of-cooking timer ✓ Oven door soft motion hinges with soft closing triple glass oven door ✓ With cooling fan ✓ Bottom storage compartment 	1	unit	170,000.00	170,000.00
26	<p>Convection Oven</p> <ul style="list-style-type: none"> ✓ Benchtop/countertop ✓ Full size (left to right:32 15/16” ✓ Front to back: 29 ¾”, height: 26 3/16”) ✓ Electric, 240V ✓ Precise, adjustable time and temperature control ✓ High speed fan for even air distribution ✓ Temperatures ranging from 100°F - 450°F ✓ Stainless steel construction ✓ Insulated, double wall construction ✓ Cool tough safety (tempered) glass door ✓ Removable door and rack slides for easy cleaning ✓ Unit comes with (4) wire racks and (4) 13-1/2” x 10” aluminum baking trays ✓ Able to accommodate (3) standard ¼ size sheet 	1	pc	75,000.00	75,000.00

	<ul style="list-style-type: none"> ✓ pans ✓ At least two years warranty 				
27	<p>17 Pieces Stainless Steel Induction Cookware Set, Impact-Bonded Technology with Kitchen Stainless Steel Cart</p> <ul style="list-style-type: none"> ✓ 1.6 Qt saucepan w/lid ✓ 2.5Qt saucepan w/lid ✓ 4.2Qt casserole w/lid ✓ 8.6Qt stock Pot w/lid ✓ 8 inch fry pan ✓ 10 inch fry pan ✓ 5.5Qt sautepan w/lid ✓ Boiler basket ✓ Steam basket ✓ 3 piece kitchen tools ✓ With kitchen stainless steel rack 4-tier organizer 	2	set	25,000.00	50,000.00
28	<p>Refractometer, Food Grade</p> <ul style="list-style-type: none"> ✓ Digital, precise, reliable & easy-to-use ✓ Multiscale ✓ Automatic temperature compensation ✓ Brix: 28%-65% ✓ Refractive Index: 1.3770-1.45 ✓ Measurement Range: 0°-40°C (32°-104°F) ✓ Measurement Temperature Precision: ± 0.5° C (2° F) ✓ Storage Temperature: 0° - 50°C (32°-122°F) ✓ Rugged and waterproof case ✓ At least one year warranty 	3	pc	25,000.00	75,000.00
29	<p>Freezer</p> <ul style="list-style-type: none"> ✓ Upright ✓ 10 cu.ft ✓ Manual defrost system ✓ Quick freezing capability ✓ 240V ✓ At least one year warranty 	1	pc	25,000.00	25,000.00
30	<p>Kitchen Aid Mixer</p> <ul style="list-style-type: none"> ✓ With 5 quart stainless steel bowl with handle ✓ Tilt-head design ✓ 10 speeds ✓ Includes 1-piece pouring shield ✓ 6 wire whip ✓ C-nylon coated dough hook ✓ Nylon ✓ Coated flat beater ✓ With mixer attachment pack 2 ✓ Includes fitted stand mixer cover ✓ At least one year warranty 	3	pc	50,000.00	150,000.00
31	<p>Refrigerator</p> <ul style="list-style-type: none"> ✓ Inverter technology ✓ Double door (side by side) ✓ 15-19 cu ft ✓ At least one year warranty 	2	pc	30,000.00	60,000.00
32	<p>Red Diode Laser System</p> <ul style="list-style-type: none"> ✓ 635nm wavelength ✓ 1-1000 nW output power ✓ Continuous wave 	3	set	25,000.00	75,000.00
33	<p>Green Diode Laser System</p> <ul style="list-style-type: none"> ✓ 556nm or 561nm wavelength ✓ 1-1000mW output power ✓ Continuous wave 	3	set	25,000.00	75,000.00
34	<p>Mixed Signal Oscilloscope with Function Generator</p> <ul style="list-style-type: none"> ✓ 16-channel logic analyzer ✓ 2 channels, ✓ 100-200MHz bandwidth ✓ 1GS/s sample rate ✓ TFT-LCD display 	1	set	147,500.00	147,500.00

	<ul style="list-style-type: none"> ✓ Built-in 20-25MHz function/arbitrary waveform generator ✓ Set includes at least 2 passive probes with retractable hook tip 				
35	3D Printer <ul style="list-style-type: none"> ✓ Housing: sturdy metal frame-aluminum warp-resistant 6.3 aluminum build ✓ Heat-resistant metal platform ✓ Heavy-duty 10mm z-axis ✓ Acrylic cover ✓ 2 spool holders ✓ 2 spools of filament ✓ 2 guide tubes ✓ Printing: build envelope: 225x145x150mm ✓ Build Volume: nozzle diameter: 0.4mm ✓ Works well with 1.75mm ABS and PLA software ✓ Software: replicator G ✓ Compatibility: windows, printer from SD card or over USB ✓ Input file type: STL, gcode with accessories, 4GB SD contains 	2	set	100,000.00	200,000.00
36	Laboratory Water Purification System <ul style="list-style-type: none"> ✓ tap water feed to type 2 water ✓ for reagent preparation and equipment water feed ✓ max production flowrate: 40L/hr ✓ wall mounted or stand alone ✓ an integrated storage tank ✓ automatic sanitation technology ✓ current reverse osmosis tech ✓ intact resin beads or cartridge type ✓ easy operation and maintenance ✓ with provisions on installation, maintenance, and troubleshooting ✓ with provisions for accessories if applicable ✓ with free or complimentary feed water analysis to check on compability 	1	unit	710,000.00	710,000.00
TOTAL ABC		PhP 9,832,500.00			

3. 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.

4. 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 July 25-August 14, 2017 from the address below and upon payment of a nonrefundable fee for the Bidding Documents in the amount of Ten Thousand Pesos Only and 00/100 (P10,000.00) 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 August 2, 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 August 14, 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 August 14, 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:

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