



Department of Agriculture
PHILIPPINE CARABAO CENTER
CERTIFIED: ISO 9001 | ISO 14001 | ISO 45001

INVITATION TO BID

ITB/Identification No. PB 2023-178

(CCDP/PCC-UPLB) SUPPLY, DELIVERY AND INSTALLATION OF DAIRY PROCESSING EQUIPMENT BONGABONG, ORIENTAL MINDORO

1. The **PHILIPPINE CARABAO CENTER**, through the **CCDP Fund** intends to apply the sum of **Two Million Pesos (P 2,000,000.00)** being the ABC to payments under the contract for **(CCDP/PCC-UPLB) SUPPLY, DELIVERY AND INSTALLATION OF DAIRY PROCESSING EQUIPMENT BONGABONG, ORIENTAL MINDORO** under **ITB/Identification No. PB 2023-178**. Bids received in excess of the ABC shall be automatically rejected at bid opening.
2. The **PHILIPPINE CARABAO CENTER** now invites bids for the above Procurement Project. Completion of delivery/Works/Services is required within **90 days** as specified in the Schedule of Requirements. Bidders should have completed, within **five (5) years** from the date of submission and receipt of bids, a contract similar to the Project. The description of an eligible bidder is contained in the Bidding Documents, particularly, in Section II (Instructions to Bidders).
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) No. 9184.

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 No. 5183.

4. Prospective Bidders may obtain further information from **PHILIPPINE CARABAO CENTER** and inspect the Bidding Documents at the address given below during Monday to Friday (8am-5pm) except weekends and holidays.
5. A complete set of Bidding Documents may be acquired by interested Bidders on **October 20-November 1, 2023** from the given address and website(s) below and upon payment of the applicable fee for the Bidding Documents, pursuant to the latest Guidelines issued by the GPPB, in the amount of **Three Thousand Pesos (P 3,000.00) non-refundable**. The Procuring Entity shall allow the bidder to present its proof of payment for the fees presented in person, by facsimile, or through electronic means not later than the submission of their bids.

We encourage bidders to download the bidding documents through PhilGEPS or the PCC Website and pay through bank. Please coordinate with the BAC Secretariat Office through the email address and contact number given below for the bank detail procedures.

6. The **PHILIPPINE CARABAO CENTER** will hold a Pre-Bid Conference (via Zoom for bidders) on **November 7, 2023 (10am)** at **EUSEBIO HALL, PHILIPPINE CARABAO CENTER**, National Headquarter and Gene Pool, Science City of Muñoz, Nueva Ecija through web conference platform via Zoom.

A Personal Meeting ID will be sent through email for each participant at least one day before the event. Prospective bidders need to signify their intention to participate by sending an email to noemi.balais@pcc.gov.ph

7. Bids must be duly received by the BAC Secretariat through manual submission at the office address indicated below on or before **November 21, 2023 (9am)**. Late bids shall not be accepted.
8. All Bids must be accompanied by a bid security in any of the acceptable forms and in the amount stated in **ITB Clause 14**.
9. Bid opening shall be on **November 21, 2023 (10am)** at the given address below through web conference platform via Zoom (face to face for the BAC).

A Personal Meeting ID will be sent to participants through email who submitted bid proposals.

10. The **PHILIPPINE CARABAO CENTER** reserves the right to reject any and all bids, declare a failure of bidding, or not award the contract at any time prior to contract award in accordance with Sections 35.6 and 41 of the 2016 revised IRR of RA No. 9184, without thereby incurring any liability to the affected bidder or bidders.
11. The **PHILIPPINE CARABAO CENTER** Bids and Awards Committee (BAC) will use a non-discretionary and non-discriminatory measure based on sheer luck or chance, which is "draw lots", in the event that two or more bidders have been post-qualified and determined as the bidder having the Lowest Calculated Responsive Bid (LCRB) to determine the final LCRB (In alphabetical order, the bidders shall pick one rolled paper. The lucky bidder who would pick the paper with "Congratulations" remark shall be declared as the final bidder having LCRB and recommended for award of the contract.)

12. Please refer to the following schedule of activities:

Activity	Date	Remarks
Availability of Bidding documents	October 20- November 21, 2023	Downloadable through PhilGEPS, PCC Website and can be requested through email (noemi.balais@pcc.gov.ph)
Payment of Bidding Documents (before submission of bid proposals)	October 20- November 21, 2023	<p>Prospective Bidders may pay the bidding documents through bank deposit to:</p> <p>Bank Name/Branch: Land Bank of the Philippines-CLSU Bank Account No. 2962-1020-37 Account Name: PHILIPPINE CARABAO CENTER LBP Branch where the deposit was made:</p> <p>If bidders opted to pay cash, request Statement of Account (SOA) first from PCC Accounting Office before proceeding to the PCC Cashier's Office</p> <p>Prospective Bidders must email the scanned copy of deposit slip to BAC Secretariat Office with the following details:</p> <ul style="list-style-type: none"> ▪ Project Title ▪ Company Name with Contact Information <p>BAC Secretariat Office: noemi.balais@pcc.gov.ph</p> <p>PCC Cashier's Office will issue Official Receipt after the validation/confirmation of the bank deposit.</p>
Pre-bid Conference (Online for bidders)	November 7, 2023 (10am)	A Personal Meeting ID will be sent through email for each participant at least one day before the event. Prospective bidders need to signify their intention to participate by sending an email to noemi.balais@pcc.gov.ph
Deadline for the submission of bids	November 21, 2023 (9am)	<p>Late bids shall not be accepted.</p> <p>Through personal delivery or through courier at the PCC BAC Secretariat Office</p> <p>Bidders must ensure that the Bid Proposals are properly delivered and received by the BAC Secretariat Office on or before the deadline of submission.</p>
Bid Opening (Online for bidders)	November 21, 2023 (10am)	A Personal Meeting ID will be sent to participants through email who submitted bid proposals on time.

12. The PHILIPPINE CARABAO CENTER (PCC) does not condone any forms of solicitation on any prospective winning and losing bidders by any of our staff/employees or any other party. Any sort of this kind shall be reported immediately to PCC (pccoed2021@gmail.com).

13. For further information, please refer to:

MS. NOEMI V. BALAIS

Head, BAC Secretariat Office
PHILIPPINE CARABAO CENTER
National Headquarters and Gene Pool
Science City of Munoz, Nueva Ecija
Email: noemi.balais@pcc.gov.ph
Contact No.: 0917 824 4374
Website: www.pcc.gov.ph

ERIC P. PALACPAC

Chairperson, Bids and Awards Committee
October 20, 2023

TERMS OF REFERENCE AND CONDITIONS

Project/Title	SUPPLY, DELIVERY AND INSTALLATION OF DAIRY PROCESSING EQUIPMENT (PCC at UPLB) 1 LOT
Approved Budget for the Contract	Two Million Pesos (PhP2,000,000.00)
Fund Source	CCDP Fund
Place/Site of delivery	BONGABONG, ORIENTAL MINDORO
Project Focal Person and Contact Information	THELMA A. SALUDES <i>Center Director, PCC at UPLB</i> Cel No. 09088112841
Delivery Period/Terms	90 calendar days upon receipt of Notice to Proceed
Payment	Choose one [] Progress payment for each delivery of the goods and services covered by the contract [x] Upon completion of delivery, installation and final acceptance of the end-user
Definition of Similar Contract	Similar contract refers to supply, delivery and installation of various dairy processing equipment/food processing equipment

Suppliers are preferably Luzon-based, had provided reliable, compliant equipment and satisfactory service to the procuring agency to ensure compliance with delivery schedule as well as provide timely technical assistance during the initial operation and for maintenance purposes.

Item No.	Qty	Unit	Equipment	Unit Cost	Total Cost
1	1	unit	PASTEURIZER TANK with bottle filler faucet	370,000	370,000
2	1	unit	PLATE OR TUBULAR HEAT EXCHANGER	180,000	180,000
3	1	unit	FORM-FILL-SEAL MACHINE	288,000	288,000
4	1	unit	DIESEL FIRED BOILER UNIT	210,000	210,000
5	1	unit	COOLING TOWER	50,000	50,000
6	1	unit	COOLING TOWER PUMP	10,000	10,000
7	1	unit	WATER CHILLER	145,000	145,000
8	1	unit	STAINLESS SANITARY PRODUCT PUMP and IN-LINE FILTER	65,000	65,000
9	1	unit	PIPING AND ELECTRICAL INSTALLATION	317,000	317,000
10	1	unit	ICE CREAM MAKER	125,000	125,000
11	1	unit	GENERATOR	240,000	240,000
			TOTAL		PhP2,000,000

Note: The project will be awarded by lot. Bidders are required to indicate the unit price of equipment in the proposal/bid form.

TECHNICAL SPECIFICATIONS

Item No.	Qty	Unit	Equipment/Description
I.	1	Set	COLD-FILL DAIRY PROCESSING EQUIPMENT
			To include the following
	1	unit	PASTEURIZER TANK with bottle filler faucet
			Capacity: 500 liters
			Type: Jacketed and Insulated
			Heating Source: Hot Water
			Agitator: at least .75kw /1hp, 60 rpm – 80 rpm
			With CIP Spray Ball
			with control panel
			Power Supply: 220v, single phase, 60Hz
			With bi metal thermometer for motoring of temperature
			Should reach 72°C within 1 hour
			If steam will be used as a heating medium, the steam should not be used to directly pasteurize the milk
			The tank must have a maximum height of 1.5m or must eliminate the use of ladder during raw milk loading.
	1	unit	PLATE OR TUBULAR HEAT EXCHANGER
			Capacity: 500 l/hr
			2-STAGE (1 st stage for cooling tower and second stage for Chilled Water)
			Materials: All Stainless Steel
			Gasketed type (for Plate Heat exchangers)
			Multi-Tubes (for Shell and tubes Heat exchanger)
			Product input and discharge 38mm SMS or Ferrule end
	1	unit	FORM-FILL-SEAL MACHINE
			Filling Speed: 1,800 - 2,000 packs per hour
			Filling Weight: 100-500 ml
			Operation: Mechanical Type, Automatic Filling and Sealing (piston type)
			Packing Type: Center Seal Pillow Pack
			Heater Control: Digital Thermo-controller
			Packaging material: Roll Film, PE
			Roll width: 320mm
			Packaging Materials: PE Film
			Application: Liquid Milk
			Labeling: with Date Coder, min of 8 digit code and min of 3 liner-code, hot ribbon type, embossed with black printing,
			Body: Stainless Steel (at least grade 304)
			Power Supply: 1.6 kw, 220 volts, 60Hz, Single Phase
			With UV light to sterilize film surface
			All milk contact parts should be made from SS at least grade 304
	1	unit	DIESEL FIRED BOILER UNIT
			Type: Vertical type
			Fuel: Diesel

			Hot Water Temp: up to 98C
			Operation: Continuous Circulation
			Capacity: 100-200 kg / hr
			with control panel and digital thermos controller monitor
			with hot water reservoir tank
			with hot water pump 1hp
			Should be able to supply the heat required to pasteurize the 500L milk at 72C within 1 hour (compliant/compatible to the requirement of the pasteurizing tank)
			Should be able to supply the heat required to pasteurize the at least four pasteurizers units at the same time.
			Electronic Ignition must be installed for burner. Switch must be installed accessible to the plant operator inside the processing area.
			Install steel fabricated Fuel tank of 150-200 liters capacity, with level gauge and necessary piping lines.
			Must be installed outside the processing area and with ample space of 0.6-1.0 meters surrounding the boiler unit for safety and ease of maintenance.
	1	unit	COOLING TOWER
			Model: N-10
			Capacity: 7,800 l/hr
			Casing Material: FRP
	1	unit	COOLING TOWER PUMP
			Centrifugal type
			1hp, 220volts, 1-phase
	1	unit	WATER CHILLER
			Capacity: 5hp
			Air-cooler type condenser
			220 volts, Single Phase
	1	unit	STAINLESS SANITARY PRODUCT PUMP and IN-LINE FILTER
			Sanitary Pump Head Design
			Capacity: 2hp, 220v, 3 Phase
			With Frequency Inverter Control
			In-line Product filter 100-200 mesh
			With Phasing Converter Built-In Device from Single Phase to 3-Phase Output w/ variable frequency suitable for 2Hp Pump.
			PIPING AND ELECTRICAL INSTALLATION
			For Electrical, all cables, breakers and other devices must conform to the Electrical Code of the Philippines.
			Appropriate cable trays must be used for easy inspection.
			Electrical Main Panel must be composed of main switch, and individual circuit breakers for all motors, lighting, outlets fans. Provide 2 available slots, for future additional load. Must be collected accessible to the plant operator.
			Install proper Hanger-Type Steel Cable Ladder going to each electric motor.
			For Piping, Stainless materials must be installed including gate valves and necessary fittings.
II.	1	set	ICE CREAM MAKER

			Double compressor and LCD Touch Screen
			Power: 2200W
			Refrigerant: R410a/1000g Freezing
			Cylinder: 3.6L*2
			Capacity: 6L*2(1.6 gallon*2)
			Production: 20-28L/H (5.3-7.4 gallon)H)
			Gross Weight: 124kg (273.4 lbs)
			Package Size: 57.5 x 62.5 x140cm (22.6x 24.6x55.1 inch)
			1 x Soft Ice Cream Machine
			1 x Ice Cream Cone holder
			1 edible lubricating Grease
			1 x Seal for Middle Stern
			1 x Seal for Liquid Outlet Valve
			2 x seal Cartridge
			5 x Piston Seal
			2 x Expanded Tube
			4 x Shape Hat (noodle, jungle, sandwich, hexagram)
			1 x user manual
III	1	set	GENERATOR
			<p>-Heavy duty generator, single phase, 25- 50 Kva or that can accommodate all the electrical load of the whole facility, Structure Mode: silent type/sound proof -DIESEL; Phase: Single Phase; Rated Frequency (Hz): 60Hz; Rated Voltage (V): 220; Rated Output (kva): 13.5; Max. Output (kva): 13; Power Factor (cos): 1; Water-cooled; Engine type :ev80; Full tank capacity :26L; Starting System: Electric Start; Battery Ah: 12V; Protection System: Low Oil Alarm; Noise Level @7m: 75db (A); Excitation Mode: Transistorized Self-excitation and constant voltage AVR;</p> <p>- Must be a brand-new unit with 0-10 hours of indicative operating hours in the PLC monitor.</p> <p>- Must be an electronic On /Off system, with oil, temperature short circuit indicators.</p> <p>- Manual Transfer Switch (MTS) must be installed together with the unit.</p> <p>- Integrated line of fuel supply to the Boiler unit Fuel Tank.</p> <p>- Must have a rubber pad as a vibration absorber.</p> <p>- With casing and proper sound proofing.</p> <p>- Muffler extension must be installed to avoid spreading of smoke in the facility.</p> <p>- Must be installed separately or outside the main processing area.</p> <p>-2 years service warranty and 3 months warranty on parts</p> <p>-Inclusive of tools and accessories, delivery on site, installation, testing, and commissioning</p>

NOTE: The Set of COLD-FILL DAIRY PROCESSING EQUIPMENT should be able to produce a guaranteed output of at least 10,000 packs of 180-200 grams/ml of pasteurized milk with less than or equals to 15 degree Celsius in 4-6 hours.

ADDITIONAL REFERENCES

a. Sample Specification of 500L capacity Pasteurizer Tank

Specification for 500L pasteurizer

Capacity	500L
Material	SS304
Thickness of wall	3mm / 3mm / 2mm
Interior diameter	Φ1000
Height	1700mm
Motor power	750W
Mixing speed	25rpm
Insulation thickness	50mm
Heating power	6kw / 12kw
Heating medium	Water

b. Sample Load Computation for Generator set Capacity

Machine	Rated Power	
Pasteurizer Tank	0.75 kw	
FFS Machine	1.6 kw	
Boiler	0.75 kw	
Cooling Tower Pump	0.75 kw	
Water Chiller	3.73 kw	
Product Pump	1.5 kw	
Ice Cream Maker	2.2 Kw	
Other Load Sources:		
Water Supply	0.75	
AC Unit	1.5	
Fans	0.75	
Add'l Chillers	1.5	
Total Load	15.78 kw	
	0.75 kw to Kva (Conversion)	
	21.04 Kva	
	80% Power Factor	
	25.25 Kva (for Machine Only)	
	50 Kva	(Recommended GenSet Capacity including Water Supply, Additional Chiller, Fans, AC unit)

c. Sample of Vertical Type Boiler with Electronic Ignition Diesel Burner



DOCUMENTATION COMPONENTS

The supplier/contractor shall warrant that they will provide all the necessary documents/manual in English Language relative to the equipment as follows:

- Individual Equipment Manual

TRAINING

Training for the use of equipment shall be administered upon delivery and installation including testing and commissioning of the equipment.

WARRANTY COMPONENTS

All products/equipment have passed through Quality Control and are guaranteed to be free from defects upon delivery. The supplier/contractor shall provide warranty for the equipment covering parts (excluding the consumable parts) and technical services on the equipment and its accessories for a period of one (1) year from the date of delivery and acceptance (evidence by a Certificate of Final Acceptance issued by the PCC/end-user). During the warranty period, the supplier/contractor shall replace any defective parts of materials and or provide regular check-up, consultation and as needed, maintenance services for the equipment at no cost to PCC.

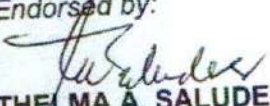
AFTER SALES SERVICE

Regardless of whether or not a maintenance agreement is entered into by the concerned parties after the expiration of the warranty period, the supplier should guarantee the availability of spare parts and components of the aforementioned equipment at least within the period of five (5) years from the date of acceptance of the equipment.

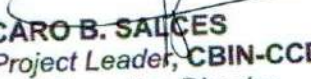
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