

# DEPARTMENT OF AGRICULTURE PHILIPPINE COCONUT AUTHORITY

REGION I, II, III and CAR

2/F Guest House Bldg., PCA Compound, Elliptical Road, Diliman, Quezon City 1101 Telefax No.: (02) 8927-5227 Tel. No. (02) 8924-4761 4b.regionalbac@gmail.com

# REGIONAL BIDS AND AWARDS COMMITTEE

SUBJECT: PHILIPPINE BIDDING DOCUMENTS:

Fabrication, Supply, Delivery, Installation and Commissioning of Two (2) Sets Composting Facilities for Biodegradable Wastes (CFBW) under

Coconut Fertilization Project (CFP) CY 2023 (EARLY PROCUREMENT ACTIVITIES)

A	BC:	Pnp1,	4/7,600	0.00		
x					 	 x

# BID BULLETIN No. 2023-02

Relative to the above subject, during the Pre-bid Conference conducted on February 14, 2023, the REGIONAL BIDS AND AWARDS COMMITTEE modifies some of the information/requirements on Bid Data Sheet, Special Conditions of Contract, Schedule of Requirements and Technical Specifications.

# 1. Section III. Bid Data Sheet

From	To
a) Valid BAFE Permit to Operate Certificate as manufacturer/ fabricator b) Certified True Copy (CTC) of Certificate of Conformity issued by BAFE c) Notarized certification stating the manpower and available tools and equipment needed to fabricate the machines with recent pictures of the fabrication shop and facilities. d) Notarized certification stating among others the production capacity of its fabrication facility per month. e) Certified True Copy (CTC) of AMTEC Test Report f) Mill Certificate or composition analysis (see a.3 of Terms of Reference) g) Proposed detailed Engineering Design including measurements, scale, and other imperative details applicable h) Program of work or delivery schedule	a) Valid BAFE Permit to Operate Certificate as manufacturer/ fabricator, b) Valid NAMDAC Certificate as manufacturer/fabricator, c) Certified True Copy (CTC) of Certificate of Conformity issued by BAFE for biomass shredder and engine, d) Certificate of Availability of Service Centers or Service Provider, e) Operations Manual for both Biomass shredder and Rotary Composter, f) Work plan and Cost Estimate for training/s to be conducted, g) Valid AMTEC Test Report for Shredder and engine couple (couple being offered). Certified True Copy by AMTEC, h) Valid AMTEC Test Report for Engine Only - AMTEC Test Report for engine shall be Certified True Copy by AMTEC. i) For Biomass Shredding Machine, submit a Mill Certificate certified by source dealer





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- Conformity to the Approved Terms of Reference
- j) Certificate of Warranty for parts (minimum of two years) and after-sales service (lifetime)
- Valid AMTEC Test Report for Rotary Composter, Certified True Copy by AMTEC
- k) Detailed Engineering Design of both biomass shredding machine and rotary composter indicating major parts and specifications, including measurements, scale, and other important details of the shredder and composter contained herein, signed and sealed by a Registered Agricultural and Biosystems Engineer with valid copy of PRC license attached,
- Notarized certification stating the manpower and available tools and equipment needed to fabricate the machines with recent pictures of the fabrication shop and facilities,
- m) Notarized certification stating among others the production capacity of its fabrication facility per month,
- n) Program of Work or delivery schedule,
- conformity to the Approved Terms of Reference and/or Bidding Document,
- Certificate of Warranty for parts (minimum of two years) and after-sales service (lifetime) for
  - 1) biomass shredder
  - rotary composter.

Please note that a copy of the **AMTEC test report** stamped with Certified True Copy by AMTEC is required. It does not have to be the original copy from AMTEC. This requirement only assures that it is a copy of the report that was certified by AMTEC.

# Section V. Special Conditions of Contract

-	Add
	GCC Clause 1
	f. A video on how to operate, troubleshoot, replace blades and included in an On-the-Go (OTG) for provision to recipient (upon delivery).  g. Training Provision from Supplier to the end-user on machine installation,





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	operation, maintenance troubleshooting.	and
From	To	

### GCC Clause 4

The Technical Working Group (TWG) shall conduct the post-qualification of submitted documents of the Lowest/Single Calculated Bidder (LCB). The documents submitted during the opening of bids and the fabrication facility/ies shall be subjected to validation and inspection by the Technical Working Group (TWG), Moreover, the final and approved detailed engineering design shall be submitted to TWG by the LCB during post-qualification. the Likewise, if already available at the shop, machines will be subjected to testing and demonstration to test the machines' operability, effectivity, and efficiency.

Appropriate inspection and testing of machines with reference to AMTEC test result can still be conducted on Biomass Shredding Machine and Rotary Composter to ensure bidder's compliance.

## GCC Clause 4

The Technical Working Group (TWG) shall conduct the post-qualification of submitted documents of the Lowest/Single Calculated Bidder (LCB). The documents submitted during the opening of bids and the fabrication facility/ies shall be subjected to validation and inspection by the Technical Working Group (TWG).

During the post-qualification, the test material shall be young coconut (splitted "buko" with shells intact) provided by the declared Lowest Calculated Bidder (LCB). The amount of test material shall at least 75% of the required input capacity of the Biomass Shredder (i.e. at least 750 kg) based on the PAES 245:2010-Methods of Testing.

Moreover, during post-qualification, the Lowest Calculated Bidder (LCB) shall prepare and provide spare shredding blades in the presence of the TWG. Three (3) blades will be randomly selected and wrapped properly in a sealed plastic/paper envelope indicating the description of samples. The blades will be sent Department of Science and Technology - Metals Industry Research and Development Center (DOST-MIRDC) and shall subjected chemical analysis to (Composition Analysis) and Metal ID. The cost of the analysis will be shouldered by the bidder.

Prior to distribution, another three (3) blades will be randomly selected in the presence of the Lowest Calculated and Responsive Bidder (LCRB) /supplier or its representative and PCA representative/s and shall be subjected to





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> Chemical Analysis and Metal ID by the DOST-MIRDC. The cost of the analysis will be shouldered by the supplier. The supplier or its representative shall be present during the submission of samples to the testing center.

> The Chemical Analysis (composition analysis of 4140 steel shall be based on the table below.

Element	Required Composition by ASM <sup>a</sup> (%) SAE# 4140/AISI# 4140	Required Composition by UNS <sup>b</sup> (%) Unified# G41400
Chromium, Cr	0.80-1.10	same as ASM
Manganese, Mn	0.70-1.00	same as ASM
Silicon, Si	0.15-0.35	same as ASM
Carbon, C	0.38-0.43	same as ASM
Molybdenum, Mo	0.15-0.25	same as ASM
Sulfur, S	0.040	max=0.040
Phosphorus, P	0.035	max=0.035

<sup>&</sup>quot;ASM (American Society for Metals) International Metals Handbook.

Note: Failure to comply with the required specifications prior to the distribution shall be ground for termination of contract and/ or blacklisting.

# 3. Section VI. Schedule of Requirements

From	To
<ul> <li>Machines, spare parts and tools shall be delivered to the identified drop-off points (DOPs).</li> </ul>	c. Machines, spare parts and tools shall be delivered to the identified drop-off points (DOPs). Upon the delivery of the machines to the DOPs, ocular inspection of the machines will be conducted by the assigned PCA representative coming from the Regional Office and/or Provincial Office. Before accepting the machines by the authorized PCA representative, the supplier shall conduct training of end-users on the operation, troubleshooting, and maintenance of the machines to ensure that they are in good running condition.

<sup>&</sup>quot; UNS (Unified Numbering System, Metals & Alloys in the), 11" ed.

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# 4. Section VII. Technical Specifications

# From

Item Specification	Statement of Compliance
	[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]
Two (2) Unit of Biomass Shredding Machine	
Minimum capacity of one (1) ton per hour and shredding efficiency of at least 90% as per AMTEC Test	
Locally fabricated	
Built-in woodchipper capable of chipping softwoods with diameter of up to three (3) cm;	



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4140 quenched and tempered steel blades (attached Mill Certificates or composition analysis)	
Feeding plate and hopper/funnel; not less than 1.7 mm thickness	
Thickness: Not less than 10 mm cast iron / full welded metal steel shredding chamber;	
With one (1) set spare quenched and tempered steel shredding blades;	
With operations manual and maintenance tools (grease guns, rubber mallet, set of combination wrenches and plastic goggles);	
Belt-cover or guard and provisions for belt tightening and adjustments shall be provided.	
Power source shall be at least 7-Hp Diesel engine, water-cooled	
Fuel consumption at full load = 2.4 L/hr (maximum);	
Single horizontal cylinder, four-stroke cycle;	
Easy manual cranking;	
Dry weight: 75 kg (maximum);	
With manual and standard engine tools;	
Continuous power of not less than 4.45KW as indicated in the Continuous Running Test or Varying Load	
Performance Test conducted by AMTEC.	
Power Transmission: belt-driven with shredder machine and power source mounted on a common steel base	
Must conform to the manufacturing requirements; performance requirements; safety, workmanship, and finish; and markings as contained in PNS/PAES 244:2010 (Agricultural Machinery-Biomass Shredder-Specifications)	
Must conform to the performance requirements; workmanship and finish; maintenance and operations tools requirements; including instruction manual, markings and labelling and other requirements as contained in PAES	



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116:2001 (Agricultural Machinery-Small Engine-Specifications)	
Mobile four-wheeled shredder mounted on a heavy-duty common steel base with heavy-duty rubber wheels of at least six (6) inches in diameter for easy mobility, with lock)	
AMTEC tested (biomass shedder machine with engine)-Certified True Copy by AMTEC	
Minimum of two (2)-years warranty for parts	
Lifetime after-sales service warranty	
Two (2) Unit of Rotary Composter	
Locally fabricated;	
Made from austenitic stainless-steel drum (304 or 316 stainless-steel) with thickness not less than 1.4 mm stainless steel sheet and side panels with a thickness not less than 1.2 mm stainless steel sheet and shafting with angle bar frame (4" x 4" x 1/4 inch);	
It shall be free from manufacturing defects, sharp edges and surfaces other than the cutting mechanism to ensure the safety of the operators;	
Volume capacity = minimum of two (2) cu. meters;	
Output capacity of at least 750 kgs per batch;	
Equipped with at least 6 austenitic stainless-steel bafflers (304 or 316 stainless-steel), 4 air vents, discharge window and blower;	
Rotational speed of one (1) turn every 3 minutes;	
Powered by single phase induction motor (minimum 1 Hp or 0.746 KW, 220 V, 60 Hz);	
Must conform with the requirements of services and parts availability, training and maintenance operation as contained in PNS/BAFS/PAES 192:2016;	
AMTEC tested (rotary composter)- Certified True Copy by AMTEC	



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Minimum 2 yrs. Warranty;	
Lifetime after-sales service warranty	

Upon delivery of the machines to the DOPs, ocular inspection of the machines will be conducted by the assigned PCA representative coming from the Regional Office and/or provincial Office. Likewise, representatives from Commission on Audit (COA) and Bureau of Agricultural and Fisheries Engineering (BAFE) will also be invited during inspection and testing. Before accepting the machines by the authorized PCA representative, the supplier shall demonstrate to the inspectors and end-users the operation and maintenance of the machines to ensure that the machines are in good running condition.

To

Item	Specification	Statement of Compliance
		[Bidders must state here either "Comply" or "Not Comply" against each of the individual parameters of each Specification stating the corresponding performance parameter of the equipment offered. Statements of "Comply" or "Not Comply" must be supported by evidence in a Bidders Bid and cross-referenced to that evidence. Evidence shall be in the form of manufacturer's un-amended sales literature, unconditional statements of specification and compliance issued by the manufacturer, samples, independent test data etc., as appropriate. A statement that is not supported by evidence or is subsequently found to be contradicted by the evidence presented will render the Bid under evaluation liable for rejection. A statement either in the Bidder's statement of compliance or the supporting evidence that is found to be false either during Bid evaluation, post-qualification or the execution of the Contract may be regarded as fraudulent and render the Bidder or supplier liable for prosecution subject to the applicable laws and issuances.]



A. TWO (2) UNITS OF BIOMASS SHREDDING MACHINE

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The shredding capacity: Minimum of 1.0 ton per hour as per AMTEC Test and Post	
Qualification	
Shredding efficiency:	
At least 90% verification as per	
AMTEC Test report; and	
Post Qualification (actual testing)	
2.1 At least 90% of the	
shredded output shall pass through	
a one (1) inch-size screen	
2.2 Test Material: Young	
coconut (splitted "buko" with	
shells intact) shall be provided by	
the bidder	
2.3 Amount of Test Material:	
At least 75% of the required input	
capacity of the Biomass Shredder	
(i.e. at least 750 kg) based on the	
PAES 245:2010-Methods of	
Testing	
Shredding Chamber	
1. Thickness: Not less than 10 mm	
Material/Method: Cast	
iron/full-welded metal steel	
With built-in woodchipper: capable of	
chipping softwoods with diameter of up to	
three (3) cm;	
Shredding blades and chipping blades:	
1. Material: minimum of 4140 steel	
properties or its equivalent, quenched and	
tempered steel verification.	
a) Submitted during the submission	
of bid proposal as part of Technical	
Proposal: Submission of Mill Certificate	
certified by source dealer	
b) Post-Qualification: Chemical	
Analysis and Metal ID of the	
blades by Department of Science	
and Technology - Metals	
Industry Research and	
Development Center (DOST-	
MIRDC). Cost of the analysis	
will be shouldered by the bidder.	



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Number of sample blades: three (3) (random sampling) e) Prior to distribution: Chemical Analysis, Metal ID of the blades by the DOST-MIRDC. Cost of the analysis will be shouldered by the bidder. Number of sample blades: three (3) (random sampling). The bidder or its representative shall be present during the submission of samples	
to the testing center.	
<ol> <li>Blades shall be replaceable with minimal effort, with no cutting of parts needed, or any work that will compromise the durability of the shredder.</li> </ol>	
Blades can be sharpened.	
5. Spare Blades: With one (1) set spare painted, quenched tempered 4140 steel shredding blades.  For verification and sampling, the following number of units are required: Post-Qualification: 3 blades Prior to distribution: 3 blades Note: The bidder shall have replacement for the three (3) blades for post-qualification and three (3) blades prior to distribution to be used for the analysis	
Power Source/Engine	
1. At least 7-Hp	
Diesel; water-cooled; single horizontal cylinder; 4 stroke cycle	
Power transmission: Belt-driven     (with shredder machine and power source mounted on a common steel base)	
Fuel consumption (on average consumption): Maximum of 2.4L	



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<ol> <li>Average output power: Not less than 4.45KW as indicated in the Continuous Running Test Report per AMTEC Test Report of Engine</li> </ol>	
6. Weight: Max = 75kg; Verification: AMTEC Test Report of Engine	Д :
<ol><li>With manual and standard engine tools</li></ol>	
Other parts/Provisions	
<ol> <li>Feeding plate and hopper/funnel: Thickness: Not less than 1.7mm</li> </ol>	
<ol><li>Belt: With cover or guard provisions; With belt tightening or adjustment mechanism</li></ol>	
Steel base and rubber wheels:     shredder and engine mounted on     heavy duty common steel base     with 4 heavy-duty rubber wheels     at least 6 inches diameter for     easy mobility, with lock	
<ol> <li>Maintenance tools: grease gun, rubber mallet, set of combination wrenches suited for nuts and bolts of the shredder, adjustable wrench and plastic goggles.</li> </ol>	
Conformity to Standards	
PNS/PAES 244:2010     (Agricultural Machinery –     Biomass Shredder –     Specifications): Manufacturing requirements; performance requirements; safety, workmanship, and finish; and markings; unless otherwise specified herein	
PAES 116:2001 (Agricultural Machinery – Small Engine – Specifications): performance requirements; workmanship and finish; maintenance and operations tools requirements; including	



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instruction manual marking and	-
instruction manual, marking and	
labeling and other requirements.	
Fabrication: Locally-fabricated; can withstand the stresses of demanding use	
Shall be free from manufacturing defects,	
sharp edges and surfaces other than the	
cutting mechanism to ensure safety of the	
operators	
Bolts and nuts must be stainless, and	
painted post-assembly to prevent rusting	
Detailed Engineering Design	
<ol> <li>Indicating major parts and specifications, including measurements, scale, and other important details of the shredder and composter contained herein</li> </ol>	
<ol><li>Signed and sealed by a Registered</li></ol>	
Agricultural and Biosystems	
Engineer with valid copy of PRC	
license attached	
Certificate of Warranty	
1. For parts: Minimum of two (2) years	
<ol><li>After sales of service: Lifetime</li></ol>	
Conformity to Minimum Standards of PNS/BAFS/ PAES 192:2016: Guidelines on After-Sales Service: requirements of services and parts availability, training, maintenance and operation	
B. TWO (2) UNITS OF ROTARY COM	MPOSTER
Rotational Speed: Approx. 1-2 turns every 3 minutes	
Drum	
Material: Stainless steel	
Main Panel: Thickness: not less	
than 1.4mm side panels:	
Thickness: not less than 1.2 mm	
Volumetric Capacity: At least 2 cubic meters	
4. Input Capacity by weight: 1 ton	
per batch	
With at least 6 Bafflers made of Stainless steel	

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2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
With four (4) air vents per side panel	
<ol> <li>With discharge window and blower</li> </ol>	
Shaft support and rotary composter star	nd
Angle bar size: At least 3"x 3" x 1/4" and	
with diagonal corner bracings on stands (required for 3"x 3" x 1/4") with metal footing to improve bearing contact area to the ground	<u>1</u> 1
Power Source	
Single-phase induction motor, Minimum of 1hp or 0.746 KW, 220 V	
<ol><li>Transmission: Free-wheel after engine stop so as the weight of the substrate does not stress the engine after stop</li></ol>	
<ol> <li>AMTEC Test: Certified True Copy by AMTEC</li> </ol>	
Fabrication: Locally-fabricated; can withstand the stresses of demanding use	
Shall be free from manufacturing defects, sharp edges and surfaces other than the cutting mechanism to ensure safety of the operators	Mr.
Bolts and nuts must be stainless, and painted post-assembly to prevent rusting	
Detailed engineering design	
Indicating major parts and specifications, including measurements, scale, and other important details of the shredder and composter contained herein	
<ol> <li>Signed and sealed by a Registered Agricultural and Biosystems Engineer with valid copy of PRC license attached</li> </ol>	
Certificate of Warranty	
For parts: Minimum of two (2) vears	
After sales of service: Lifetime	
3. Conformity to Minimum Standards of PNS/BAFS/ PAES 192:2016: Guidelines on After-	



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Sales Service: requirements of services and parts availability, training, maintenance and operation

This Bid Bulletin shall, therefore, constitutes a modification or amendment to the original Bidding Documents, which shall now form part thereof.

For guidance of all prospective bidders.

Issued this 20th day of February 2023.

CHRICEPT T VILORIA

MARIA LYNN A. MONDEJAR RBAC Vice Chairman

KEN GUILLER A. VICENTE RBAC Regular Member PRINCESS CLAIRE S. ABINO RBAC Provisional Member

DIOSDADO F. MARRA RBAC Provisional Member





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# Checklist of Technical and Financial Documents

# I. TECHNICAL COMPONENT ENVELOPE

# Class "A" Documents

Legal De	ocumer	<u>us</u>		
(a)		I PhilGEPS Registration Certificate (Platinum Membership) (all pages) cordance with Section 8.5.2 of the IRR;		
Technica	al Docu	uments		
(b)	Statement of the prospective bidder of all its ongoing government and private contracts, including contracts awarded but not yet started, if any, whethe similar or not similar in nature and complexity to the contract to be bid; and			
(c)	Statement of the bidder's Single Largest Completed Contract (SLCC) similar to the contract to be bid, except under conditions provided for in Sections 23.4.1.3 and 23.4.2.4 of the 2016 revised IRR of RA No. 9184, within the relevant period as provided in the Bidding Documents; and			
(d)	Original copy of Bid Security. If in the form of a Surety Bond, submit also a certification issued by the Insurance Commission or Original copy of Notarized Bid Securing Declaration; and			
(e)		formity with the Technical Specifications, which include		
	e.1	Valid BAFE Permit to Operate Certificate as manufacturer/ fabricator,		
	e.2	Valid NAMDAC Certificate as manufacturer/fabricator,		
	e.3	Certified True Copy (CTC) of Certificate of Conformity issued by BAFE for biomass shredder and engine,		
	e.4	Certificate of Availability of Service Centers or Service Provider,		
	e.5	Operations Manual for both Biomass shredder and Rotary Composter,		
	e.6	Work plan and Cost Estimate for training/s to be conducted,		
	e.7	Valid AMTEC Test Report for Shredder and engine couple (couple being offered), Certified True Copy by AMTEC,		
	e.8	Valid AMTEC Test Report for Engine Only - AMTEC Test Report for engine shall be Certified True Copy by AMTEC,		
	e.9	For Biomass Shredding Machine, submit a Mill Certificate certified by source dealer		
	e.10	Valid AMTEC Test Report for Rotary Composter, Certified True Copy by AMTEC		
	e.11	Detailed Engineering Design of both biomass shredding machine and rotary composter indicating major parts and specifications, including measurements, scale, and other important details of the shredder and composter contained herein, signed and sealed by a Registered Agricultural and Biosystems Engineer with valid copy of PRC license attached.		
	e.12	Notarized certification stating the manpower and available tools and		

fabrication shop and facilities,

equipment needed to fabricate the machines with recent pictures of the

# SERVICE OF ACOUNTY

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- e.13 Notarized certification stating among others the production capacity of its fabrication facility per month,
- e.14 Program of Work or delivery schedule,
- e.15 Conformity to the Approved Terms of Reference and/or Bidding
  Document
- e.16 Certificate of Warranty for parts (minimum of two years) and aftersales service (lifetime) for
  - 3) biomass shredder
  - 4) rotary composter; and
- (f) Original duly signed Omnibus Sworn Statement (OSS) and if applicable, Original Notarized Secretary's Certificate in case of a corporation, partnership, ppor cooperative; or Original Special Power of Attorney of all members of the joint venture giving full power and authority to its officer to sign the OSS and do acts to represent the Bidder.

# Financial Documents

(g) The prospective bidder's computation of Net Financial Contracting Capacity (NFCC) or A committed Line of Credit from a Universal or Commercial Bank in lieu of its NFCC computation.

## Class "B" Documents

(h) If applicable, a duly signed joint venture agreement (JVA) in case the joint venture is already in existence or duly notarized statements from all the potential joint venture partners stating that they will enter into and abide by the provisions of the JVA in the instance that the bid is successful.

## II. FINANCIAL COMPONENT ENVELOPE

- (i) Original of duly signed and accomplished Financial Bid Form; and
- (j) Original of duly signed and accomplished Price Schedule(s).

# Other documentary requirements under RA No. 9184 (as applicable)

- (k) [For foreign bidders claiming by reason of their country's extension of reciprocal rights to Filipinos] Certification from the relevant government office of their country stating that Filipinos are allowed to participate in government procurement activities for the same item or product.
- (l) Certification from the DTI if the Bidder claims preference as a Domestic Bidder or Domestic Entity.

