



Republic of the Philippines
Department of Agriculture
BUREAU OF SOILS AND WATER MANAGEMENT
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BIDS AND AWARDS COMMITTEE RESOLUTION NUMBER: 2024-01-0010

SUBJECT: RECOMMENDATION FOR AWARD- SUPPLY AND DELIVERY OF 572 UNITS OF TECHNOLOGY PACKAGE ON SMALL-SCALE COMPOSTING FACILITIES (SSCF) FOR CY 2024- IB NO: BSWM-2024-00-009

WHEREAS, the Bureau of Soils and Water Management (BSWM) has invited interested PHILGEPS registered suppliers/manufacturers/distributors/contractor to bid on a competitive bidding for the contract for the **Supply and Delivery of 572 Units of Technology Package on Small-Scale Composting Facilities (SSCF) for CY 2024- IB NO: BSWM-2024-00-009** under General Appropriations Act for CY 2024 (*conducted as BSWM Early Procurement Activities*) with Approved Budget of **Two Hundred Fifty-Seven Million Four Hundred Thousand Pesos (Php 257,400,000.00)**;

WHEREAS, the invitation to bid was posted in the Philippine Government Electronic Procuring System (Reference No. 10273557), BSWM Procurement Service FB Page, BSWM Website and in conspicuous places at the BSWM continuously for at least seven (7) calendar days;

WHEREAS, during the scheduled Pre-Bid Conference and Submission and Opening of Bids held on November 8, 2023 and December 4, 2023 respectively, quorum was observed;

WHEREAS, in response to the said advertisement, only **one (1) bidder** signified its intension to participate in the said project namely: **RU Foundry and Machine Shop Corporation**;

WHEREAS, during the preliminary examination of bid proposal submitted by **RU Foundry and Machine Shop Corporation**, the BAC rated its Technical and Financial proposal as "Passed", with bid amounting to **Two Hundred Fifty-Seven Million Three Hundred Eighty Thousand Four Hundred Eighty Pesos (PhP 257,380,480.00)**;

WHEREAS, during the Bid Evaluation, the BAC with the assistance of the Technical Working Group (TWG) conducted a detailed evaluation on the bidder's bid proposal;

WHEREAS, Abstract of Bids as Calculated were prepared and duly signed by all BAC Members and TWG present for the said project;

WHEREAS, the BAC, declared **RU Foundry and Machine Shop Corporation** as the **Single Calculated Bid (SCB)**, and eligible for post-qualification per **Resolution Number 2023-12-0500** dated **December 4, 2023**;



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WHEREAS, during the regular BAC meeting held December 14, 2023, the BAC TWG request for an extension of post qualification pending for the chipping blades analysis result by Metals Industry Research and Development Center (MIRDC);

WHEREAS, under Section 34.8 of the Republic Act 9184 also known as the Government Procurement Reform Act (GPRA) and its Revised Implementing Rules and Regulations, states that:

"34.8. The post-qualification process shall be completed in not more than twelve (12) calendar days from the determination of the Lowest Calculated Bid/Highest Rated Bid.

In exceptional cases, the post-qualification period may be extended by the HoPE, but in no case shall the aggregate period exceed forty-five (45) calendar days for Goods and Infrastructure Projects, or thirty (30) calendar days in Consulting Services.

In case of post-disqualification of the bidder with the lowest calculated bid/highest rated bid, the BAC shall be given the same fresh period to conduct the post-qualification of the next lowest calculated bid/highest rated bid until a bidder is post-qualified or failure of bidding is declared based on Section 35.1(c) of this IRR."

WHEREAS, request for extension of Post Qualification was approved per Resolution Number 2023-12-0526 dated December 14, 2024;

WHEREAS, the BAC with the assistance of TWG conducted **detailed post qualification and evaluation** of the documents and technical specifications last **December 6-7, 2023** in **Bacolod, Negros Occidental** (Please see attached Post Qualification Report for details as Annex A) with the following results, to wit:

Item Description	Compliance per Post-Qualification
I. One (1) unit Biomass Shredder	
A. <u>Shredding capacity: Minimum of 1 ton per hour</u> Verification: 1) AMTEC Test Report 2) Post-Qualification	1) Compliant: 1,203.03 kg/hr or 1.2 ton/hr 2) Compliant: 1.05 ton/hr (It took 42 mins., 51 secs. to shred 750 kg of young coconut.)
B. <u>Shredding efficiency: At least 90%</u> Verification: 1) AMTEC Test Report 2) Post-Qualification (actual testing) a) At least 90% of the shredded output shall pass through a 1 inch-size screen. b) Test Material: Young coconut (buko) shall be provided by the bidder Amount of Test Material: At least 75% of required input capacity of the Biomass Shredder (i.e. at least 750kg) (Based on PAES 245:2010- Methods of Testing)	1) Compliant: 97.5 % 2) a) Compliant: 98% of the output passed through the 1inch size wire mesh (0.4 kg out of the 20 kg sample did not pass) b) Compliant: Bidder was able to provide the minimum required test material- young coconut with a total of 750 kg.
C. <u>Shredding Chamber:</u> 1) Thickness: Not less than 10 mm 2) Material/Method: Cast iron/full-welded metal steel	Compliant 1) 15.13mm, 18.26 mm, and 12.84 mm thickness measured 2) cast iron
D. <u>With built-in wood chipper:</u> Chipping ability minimum requirement: Can chip up to 3cm diameter of softwood (If it can chip bigger diameter of softwood, better.)	Compliant Chipper inner diameter: 4.18 cm
E. <u>Shredding blades and chipping blades:</u>	



[Signature]
DENISE A. SOLANO
BAC Chairperson

[Signature]
ENGR. EDUARDO V. ALBERTO
BAC Vice Chairperson

[Signature]
JOBIE L. RICO
BAC Regular Member

[Signature]
ENGR. ALBERTO E. DE GUZMAN
BAC Provisional Member

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JAQUELINE S. ROJALES
BAC Provisional Member

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ANDREW B. FLORES
BAC Provisional Member

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<p>1) Material: minimum of 4140 steel properties or its equivalent, quenched and tempered steel</p> <p>a) Verification: Submitted during the submission of a bid proposal as part of Technical Proposal: Submission of Mill Certificate certified by source dealer or its equivalent such as Chemical Analysis from DOST- Metals Industry Research and Development Center (MIRDC). Please note that analysis results specific for any other project shall not be accepted.</p> <p>b) Post-Qualification: Chemical Analysis and Metal ID of the blade by DOST - Metals Industry Research and Development Center (MIRDC). Cost of analysis will be shouldered by Bidder.</p> <p>c) Prior to distribution: Chemical Analysis, Metal ID, of the blades by DOST- MIRDC. Cost of analysis will be shouldered by the winning bidder.</p> <p>Number of sample blades:</p> <p>✓ Post-Qualification: 2 blades</p> <p>✓ Prior to distribution: 8 blades</p> <p>Note: Positive Result of analysis shall be available prior to Inspection and Acceptance.</p> <p>The bidder or its representative shall be present during the submission of samples to the testing center.</p> <p>NOTE: Failure to comply with the required specification prior to distribution shall be ground for termination of contract and/or blacklisting.</p> <p>(Based on PAES 103:2000 - Agricultural Machinery - Method of Sampling) Note: The bidder shall have replacement for the blades used for analysis.</p>	<p>a) Compliant: Submitted MIRDC Analysis and Metal ID: 4140, 4142, 4145 dated September 7, 2023.</p> <p>b) Compliant: Falls within 4140, 4142, 4145, per DOST-MIRDC Metal ID Result (Attached here is the MIRDC Analysis result) Said samples was taken by end-user representative and bidder representative to MIRDC for chemical analysis and Metal ID.</p> <p>c) Not applicable for Post Qualification Report since contract is not yet awarded</p>
<p>Chemical composition of 4140 Steel (minimum requirement)</p>	

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Element	Required composition by ASM ^a (%) SAE# 4140/AISI# 4140	Required comp by UNS ^b (%) Un G41400	
Chromium, Cr	0.80-1.10	same as AS	2) Compliant
Manganese, Mn	0.70-1.00	same as AS	
Silicon, Si	0.15-0.35	same as AS	
Carbon, C	0.38-0.43	same as AS	3) Compliant
Molybdenum, Mo	0.15-0.25	same as AS	4) Compliant
Sulfur, S	0.040	max=0.04	
Phosphorus, P	0.035	max=0.03	
^a ASM (American Society for Metals) International Metals Handbook, Vol. 1, 10th ed. ^b UNS (Unified Numbering System, Metals & Alloys in the), 11th ed.			
2) Blades shall be replaceable with minimal effort, with no cutting of parts needed, or any work that will compromise the durability of the shredder.			
3) Blades can be sharpened.			
4) Spare Blades: With one (1) set spare painted, quenched tempered 4140 (or its equivalent) steel shredding blades			

F. Power Source/Engine 1) Power: At least 7-Hp 2) Diesel; water-cooled; single horizontal cylinder; 4 stroke cycle 3) Power transmission: Belt-driven (with shredder machine and power source mounted on a common steel base) 4) Fuel consumption (on average consumption): Max= 2.4L/hr 5) Average output power: Not less than 4.45 kW as indicated in the Continuous Running Test per AMTEC Test Report of Engine 6) Weight: Max=75kg; Verification: AMTEC Test Report of Engine 7) With manual and standard engine tools 8) Submit a photocopy/scanned copy of Certificate of Conformity from DA-BAFE (CTC-optional)- shall be submitted as part of your Technical Proposal. Note: Bidder shall be the primary holder or is in the list of Authorized Dealers/Distributors/Retailers of the engine. For those under JVA, bidder/s responsible for the supply of engines shall be the primary holder or is in the list of Authorized Dealers/Distributors/Retailers of the engine.	Offer: YANMAR TF70L Compliant 1) Power: 7 hp 2) Diesel; water-cooled; single horizontal cylinder; 4 stroke cycle 3) Compliant 4) Compliant: 1.51 L/hr (AMTEC Test Report) 5) Compliant: Output power; i.e. 4.48 kW (ave.) for continuous running test 6) Compliant: Weight: 74.6 kg 7) Compliant 8) Compliant
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Verification is during Post Qualification (presentation of Original Copy or through BAFE website). G. Other Parts/Provisions	Verified during Post-Qualification and viewed in BAFE website on January 9, 2024
1) Feeding plate and hopper/funnel: Thickness: Not	1) Compliant: 1.96 mm

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<p>less than 1.7mm</p> <p>2) Belt:</p> <p> a) With cover or guard provisions</p> <p> b) With belt tightening or adjustment mechanism</p> <p>3) Steel base and rubber wheels: Shredder and engine mounted on a heavy- duty common steel base with 4 heavy- duty rubber wheels of at least 6 inches in diameter for easy mobility, with lock</p> <p>4) Maintenance tools: grease gun, rubber mallet, set of combination wrenches suited for nuts and bolts of the shredder, adjustable wrench, and heavy-duty goggles; with tool box that can carry the aforesaid tools</p> <p>Verification: Post-Qualification</p>	<p>2)</p> <p>a) Compliant</p> <p>b) Compliant: via mount adjustment</p> <p>3) Compliant: 4 heavy-duty rubber wheels with 8 inches diameter</p> <p>4) Compliant</p>
<p>H. <u>Valid AMTEC Test Reports for:</u></p> <p>1) Shredder and engine couple (couple being offered)</p> <p>2) Engine only.</p> <p>The AMTEC Test Reports for submission for biomass shredder, engine, and rotary composter may not be the original certified true copy by AMTEC. It can be a CLEAR Photocopy/ scanned copy of the certified true copy by AMTEC.</p> <p><i>Both submitted during submission of bids as part of the technical proposal.</i></p>	<p>Compliant</p> <p>1) Test Report No. 2023-0123 valid until March 21, 2028 Shredder Model No.: RUMVD4500-14; Engine: YANMAR TF70L</p> <p>2) Test Report No. 2021-0420 valid until Sept. 9, 2026 Engine: YANMAR TF70L</p>
<p>I. <u>Conformity to Standards:</u></p> <p>1) 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 instruction manual, marking, and labeling and other requirements.</p> <p><i>“Note: In view of the recent PNS/BAFS 330:2022: Technical Means for Ensuring Safety Guidelines, providing for the acceptable maximum noise level by DOLE, the procuring entity will refer to this in terms of the provisions in the noise level. Under the Normative References of the 2022 Standards, it has referred to the DOLE Occupational Safety and Health (OSH) Standards. Under the Threshold Limit Values for Noise of DOLE OSH Standards, <u>ear protective devices shall be provided if controls fail to reduce sound within specified levels. The procuring entity will abide by this. If the noise level of biomass shredder in the AMTEC Test exceeds that of the prescribed limit in PAES 244:2010, ear protective devices (e.g. earmuffs, earplugs, etc.) shall be provided by the supplier. The number of ear protective devices to be provided will be based on the number of operators indicated in the AMTEC Test Report of the biomass shredder. In the absence of such number in the said</u></i></p>	<p>Compliant (in reference to Bid Bulletin -01, exceedance in noise level will need ear protective devices, bidder showed stocks of ear protective device-earplugs)</p>

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Report, the supplier shall provide at least three ear protective devices per unit of biomass shredder.	
Specification of Ear Protective devices (Ear muffs/Ear Plugs), if applicable	

J. Bolts and nuts must be stainless	Compliant
II. Two (2) units Vermicompost Tea Brewer	
K. Double-barreled compost agitator with minimum of 3 outside bubblers	Compliant
L. 30 liters brewing capacity per brewer	Compliant
M. 220 volts (with standard tools: screwdrivers and pliers)	Compliant
N. With manual for operation	Compliant
III. Compost Worm (African Night Crawler) (15kgs/per package)	
O. ANC (alive/buhay) shall be inspected on delivery site.	Compliant
P. Other submissions	
1) Detailed Engineering Design of biomass shredder	1) Compliant
a) Indicating major parts and specifications, including measurements, scale, and other important details of the shredder contained herein	a) Compliant
b) Signed and sealed by a Registered Agricultural and Biosystems Engineer with valid copy of PRC License attached	b) Compliant: RABE Marc Alexei Caesar B. Badajos; PRC Reg. No. 0005541; ID Valid until 09/14/2024
c) Submitted during submission of bids as part of technical proposal	c) compliant
2) Certificate of Availability of Stocks and its location:	2) Compliant
(biomass shredder and tea brewer)	Available biomass shredder: 19 units assembled biomass shredder in bidder's declared address in Bacolod; and 106 units vermicompost tea brewer in bidder's declared address in Bacolod

Stocks Availability Requirement			
No. of Units	Assembled	Raw Materials	Total
	10%	90%	
185	19	167	185

Submit during the **submission of bid proposal as part of technical proposal**

Verification: Post-Qualification

3) Certificate of Warranty

For parts: Minimum of two (2) years After sales service: Lifetime

Submit during the **submission of bid proposal as part of technical proposal**

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

4) Certificate of Availability of Service Centers or Service Provider

a) In case of service center: At least 1 per region; with

Raw Materials for 225 Units (required is at least 167 units)
The Post-Qualification Team computed the least equivalent units of Biomass Shredder that can be assembled from the raw materials. Raw material pieces exceeded the minimum units.

3) Compliant

4) Compliant
Submitted Certificate of Availability of Service center with address, contact person, and contact details; and service providers

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<p>list of addresses, contact persons, and contact details; or</p> <p>b) In case of service provider: Contract, proof of training of service provider personnel, list of personnel provided with training</p> <p>5) Operations Manual</p> <p>With drawings/photos indicating major parts and functions</p> <p>a) With instructions on how to operate, troubleshoot, replace blades</p> <p>b) Written in understandable text with illustrations</p> <p>c) Submit during the submission of bid proposal as part of technical proposal</p> <p>d) With location and contact information of the suppliers nearest Service Center or Service Provider.</p> <p>e) Manual shall include a Warranty and After Sales Certificate per beneficiary.</p> <p>6) Valid NAMDAC Certificate as manufacturer/fabricator Verification: During Bid-Evaluation and Post- Qualification</p> <p>Note: Biomass shredder shall be on the product line of Bidder during Post- Qualification</p> <p>7)Valid BAFF Permit to Operate Certificate as manufacturer/fabricator Verification: During Bid-Evaluation and Post-Qualification</p>	<p>5) Compliant</p> <p>6) Compliant: Valid until Feb. 19, 2025 Accreditation No. 02-20-036 Listed as Manufacturer of Bio Shredder (per November 2023 list- latest list posted online in PCAF website, viewed January 9, 2024)</p> <p>7. Compliant: Valid until March 16, 2026 PTO No. F-7001 Listed as Fabricator of biomass shredder (per November 2023 list - latest list posted online in BAFF website, viewed January 9, 2024)</p>
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<p>Note: Biomass shredder shall be on the product line of Bidder during Post- Qualification</p> <p>8) Work plan and Cost Estimates for Training to be conducted</p> <p>9) Video of How to Operate, troubleshoot, replace blades</p> <p>a) Included in an OTG for provision to recipient (during capacity enhancement)</p> <p>b) Verification: During Post-Qualification</p> <p>Q. <u>Training Provision from Supplier:</u></p> <p>1) For the End-Users (Bureau of Soils and Water Management (BSWM), National Organic Agriculture Program (NOAP) and High Value Crops and Development Program (HVCDP)): Hands-on Training prior to delivery (Pax expected: 60, At least 1 day) - With meals</p> <p>2) For the Beneficiaries</p> <p>a) Demonstration of overall operation (mechanism and proper use of auxiliary parts), and maintenance of the machine by a knowledgeable and capable staff during delivery and inspection of SSCF</p>	<p>8) Compliant</p> <p>9) a) N/A b) Compliant</p> <p>1) Will comply per submission</p> <p>2) Will comply per submission</p>
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<p>b) Capacity Enhancement of beneficiaries per batch on the operation and maintenance of SSCF (See attached Table for details);</p> <p>Inclusive of the following:</p> <p>Meals and accommodation for 2 Days and 1 Night</p> <ul style="list-style-type: none">- Max. of 2 participants per beneficiary<ul style="list-style-type: none">- Representatives from BSWM, NOAP- NPCO and DA-RFO (RED, Focal Person and APCO)- Training Kits (Notebooks, ballpen, ID) per participant- Hands-on Training (on-site with SSCF)- Should be near to the venue- With vehicle provision<ul style="list-style-type: none">Within 3 months after the inspection and acceptance.- Resource speakers from supplier <p>3) Submission of all Curriculum Vitae (CV) of Resource Speakers as supporting document of Section VII. Resource Speakers shall be Qualified/ Knowledgeable to discuss/train about the following topics:</p> <p>4) Operation and Maintenance</p> <ul style="list-style-type: none">- Technical Specifications- Shredder Machine Vermicompost Tea Brewer- Detailed description of Major Parts and its Functions- Maintenance and troubleshooting- Operations Cost Estimate (Labor and Energy Resources) <p>5) Production Process</p> <ul style="list-style-type: none">- Composting Materials- Vermicomposting and Vermicompost Tea Brewer Process <p>6) Hands on Training on SSCF Operation</p> <p>Maintenance and troubleshooting (actual)</p>	
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R. Point of Delivery: On-site	Will comply per submission
S. Compliance with Section VI. Schedule of Requirement	Will comply per submission
T. Prices are inclusive of VAT and Freight services	Compliant per submitted Price Schedule
U. During implementation:	Will comply per submission
Upon transfer of technology packages to beneficiaries, the supplier shall coordinate with the beneficiary and provide appropriate actions required per Section IV. General Conditions of Contract and Section V. Special Condition of Contract (SCC) of the bidding document as part of the contract.	

WHEREAS, per DA General Memorandum Order No. 01 Series of 2024 Section III. Procurement Matters (C), all procurement delegated to the HoPE of procuring entity shall include approval of Resolution, Contract, NOA and NTP;

WHEREAS, based on the results of the Post Qualification, the members of the Committee found it reasonable to recommend the award for the **Supply and Delivery of 572 Units of Technology Package on Small-Scale Composting Facilities (SSCF) for CY 2024- IB NO: BSWM-2024-00-009 to RU Foundry and Machine Shop Corporation under Section 36 (a) of the Republic Act 9184** also known as the Government Procurement Reform Act (GPRA) and its Revised Implementing Rules and Regulations, states as follows:

Section 36. Single Calculated/Rated and Responsive Bid Submission

"A Single Calculated and Responsive Bid (SCRB) or a Single Rated and Responsive Bid (SRRB) shall be considered for award if it falls under any of the following circumstances:

a) If after advertisement, only one prospective bidder applies for eligibility check, in accordance with the provisions of this IRR, and it meets the eligibility requirements or criteria, after which it submits a bid which is found to be responsive to the bidding requirements;



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b) If after advertisement, more than one prospective bidder applies for eligibility check, in accordance with the provisions of this IRR, but only one bidder meets the eligibility requirements or criteria, after which it submits a bid which is found to be responsive to the bidding requirements; or

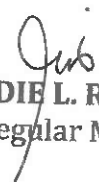
c) If after the eligibility check, more than one bidder meets the eligibility requirements, but only one bidder submits a bid, and its bid is found to be responsive to the bidding requirements."

NOW, THEREFORE, BE IT RESOLVE AS IT IS HEREBY RESOLVED that the contract for the Supply and Delivery of 572 Units of Technology Package on Small-Scale Composting Facilities (SSCF) for CY 2024- IB NO: BSWM-2024-00-009 be awarded RU Foundry and Machine Shop Corporation in the of amount of to Two Hundred Fifty-Seven Million Three Hundred Eighty Thousand Four Hundred Eighty Pesos (PhP 257,380,480.00) being the Single Calculated and Responsive Bid (SCRB) under the Republic Act 9184 also known as the Government Procurement Reform Act (GPRA) and its Revised Implementing Rules and Regulations.


RESOLVED, at the BSWM Lecture Room 2 and via videoconferencing (Zoom), this 15th day of January, 2024.


DENISE A. SOLANO
BAC Chairperson


ENGR. EDUARDO V. ALBERTO
BAC Vice Chairperson


JODIE L. RICO
BAC Regular Member

ENGR. ALBERTO E. DE GUZMAN
BAC Provisional Member


ANDREW B. FLORES
BAC Provisional Member


JAQUELINE S. ROJALES
BAC Provisional Member

☒ Approved:
☐ Disapproved:


GINA P. NIÑO, Ph. D.
Director

