



Invitation to Bid

Provision of Plastic Recycling Equipment (Two Sets) for Marine Plastics ODA Project (2023–2028) – PEMSEA Resource Facility (PRF)

Bid Reference No.: [PRF/ODA/2026-001]

Date of Issue: 17 February 2026

BACKGROUND

The Marine Plastics ODA Project (2023–2028) is a regional initiative implemented under PEMSEA with support from the Ministry of Oceans and Fisheries (MOF) of the Republic of Korea. The Project addresses the growing challenge of marine plastic pollution in the East Asian Seas through improved local governance, demonstration of community-driven solutions, systematic beach/marine litter monitoring, and strengthened partnerships among government, business, and civil society.

Under the Project, PRF will procure and install plastic recycling equipment in selected local government units (LGUs) to support local plastic waste diversion and community livelihood opportunities.

PROCURING ENTITY AND PROJECT SITES

Procuring Entity	PEMSEA Resource Facility (PRF)
Project	Marine Plastics ODA Project (2023–2028)
Lots / Installation Sites	Lot 1: City of Tandag, Surigao del Sur (1 set), target delivery: Q2 2026 Lot 2: Municipality of Daanbantayan, Cebu (1 set), target delivery: Q4, 2026
Bid Scope	Supply, delivery, installation, testing/commissioning, training, warranty and after-sales service for two (2) complete sets

SCOPE OF WORK

- Fabricate/manufacture and supply equipment that meets or exceeds the minimum technical specifications in Section 5.
- Deliver, unload, position, install, align and integrate all machines, including electrical control panels and safety devices.
- Conduct a pre-delivery site visit and prepare a workflow layout and installation plan.
- Perform testing and commissioning, including pilot run and molded product demonstration.
- Provide operator and maintenance training (minimum two weeks) for at least 15 staff per site.
- Provide warranty and after-sales support, including free repair services during warranty period and assured spare parts availability.

PROCUREMENT METHOD AND CONTRACT ARRANGEMENT

This procurement will be conducted through nationwide competitive bidding. Evaluation will be based on Technical Proposal and Financial Proposal. Award may be made per Lot or for both Lots, subject to PRF's best value determination.

MINIMUM TECHNICAL SPECIFICATIONS (PER SET)

The bidder shall provide a complete equipment package as listed below. All capacities and power ratings are minimum requirements unless otherwise stated. Equivalent or higher specifications are acceptable.

- Plastic Shredder/Crusher
 - Input capacity: $\geq 1,500$ kg/day
 - Hardened steel blades; robust housing; safety covers/guards
 - Motor: 40 HP, 3-phase
 - Automatic overload shutoff and emergency stop (E-Stop)
- Washing Tubs (2 units)
 - System input capacity: ≥ 2 tons/day
 - Motor: 10 HP, 3-phase each (or equivalent)
 - Stainless steel or rust-resistant material
 - Minimum 3-stage filtration system
 - Minimum washing capacity: ≥ 500 kg/batch
- Centrifuge Dryer
 - Industrial-grade centrifuge dryer
 - Input capacity: ≥ 2 tons/day
 - Motor: 20 HP, 3-phase
 - Minimum drying capacity: ≥ 500 kg/day
 - Moisture reduction to $\leq 14\%$ (verify during commissioning)
- Extruder
 - Input capacity: ≥ 2 tons/day
 - Motor: 40 HP, 3-phase

- Continuous melting capacity: ≥ 500 kg/day
- Temperature control system with sensors and indicator/display
- Interchangeable dies for poles, bricks, planks, and boards (minimum one set)
- Pressing/Compression Molding Machine
 - Input capacity: ≥ 2 tons/day
 - Motor: 30 HP, 3-phase (or equivalent hydraulic power unit)
 - Hydraulic press system
 - Interchangeable molds/dies for different products
 - Mold heating/cooling system (as applicable)
 - Safety interlocks and emergency shutoff
- Molding Machine with Assorted Molds
 - Suitable for small to medium molded items (e.g., benches, chairs, pots, tiles, bricks, boards)
 - Digital controls for pressure and temperature
 - Provide at least five (5) assorted molds suitable for LGU/community use (specify in offer)
- Cooling Racks/Tables
 - Heavy-duty steel frame
 - ≥ 10 m² total surface area per set
- Industrial Digital Weighing Scale
 - Precision: ± 50 g at 100 kg load (or better)
- Electrical Control Panels
 - With overload protection, emergency shutoff, safety interlocks, and proper grounding
 - Provide wiring diagram and control logic description
- Spare Parts Package
 - At least two (2) sets of shredder blades
 - Two (2) belts and two (2) lubrication kits (or equivalents as applicable)
 - One (1) set of interchangeable dies (in addition to those used in the extruder offer, if applicable)

INSTALLATION AND SITE REQUIREMENTS

- Pre-delivery site visit is mandatory for the winning bidder to validate space, floor plan, power and water connections, drainage, and workflow layout.
- Bidder shall submit a proposed workflow layout (receiving \rightarrow shredding \rightarrow washing/drying \rightarrow melting/molding \rightarrow QC/storage) and an equipment footprint plan.
- Installation includes supervised positioning, anchoring (if required), alignment, electrical integration, and safety checks.

TRAINING

The winning bidder shall provide a minimum of two (2) weeks on-site training per LGU for at least fifteen (15) participants, covering:

- Safe operation and standard operating procedures (SOPs)
- Preventive maintenance schedules and lubrication
- Troubleshooting and common failure modes
- Product quality control and basic production planning
- Emergency procedures and safety compliance

TESTING, COMMISSIONING, AND ACCEPTANCE

Acceptance will be based on successful completion of commissioning tests and submission of complete documentation.

- Pilot run demonstrating throughput of at least 1,175 kg/day (combined process, site conditions permitting).
- Molded product demonstration producing at least 30–50 finished items/day with at least 80% acceptance rate based on agreed QC checks.
- Submission of an Acceptance Test Report (ATR) and as-built layout/installation drawings.
- Turnover of user manuals, preventive maintenance checklists, spare parts list, and warranty certificates.

WARRANTY AND AFTER-SALES SERVICE

- Minimum one (1) year warranty on major equipment (motors, extruder, press, molds, control panels).
- Free repair services (parts and labor) during the warranty period, excluding consumables and misuse.
- Bidder must demonstrate capacity to provide after-sales support within the Philippines and guarantee availability of spare parts for at least five (5) years.

DELIVERABLES AND INDICATIVE TIMELINE

The following is an indicative timeline from contract signing; the bidder shall propose a detailed schedule.

Deliverable	Indicative Timing	Responsible Party
Site visit and workflow/floor plan validation	Month 1	Supplier
Manufacturing / fabrication and delivery	Months 2–3	Supplier
Installation and site integration	Month 4	Supplier
Staff training (≥ 15 staff)	Month 5	Supplier
Testing and commissioning / acceptance	Month 6	Supplier & PRF/LGU
Warranty coverage	Post-turnover	Supplier

Target installation windows: Tandag City – Q2 2026; Daanbantayan – Q4 2026.

ELIGIBILITY AND QUALIFICATION REQUIREMENTS

- Registered manufacturer or authorized distributor of plastic recycling equipment (attach registration/authorization).
- Completed at least two (2) similar projects within the last five (5) years (attach contracts/POs, completion certificates, and client references).
- Demonstrated capacity for after-sales service within the Philippines (service center or partner/service team; attach proof).
- Capacity to deliver, install, and commission within six (6) months from contract signing.

REQUIRED BID DOCUMENTS

Bidders shall submit electronic copies of 2 separate files: marked “TECHNICAL” and “FINANCIAL”. All documents must be signed by an authorized representative.

12.1 Eligibility and Technical Proposal

- Letter of Intent.
- Company profile and legal documents: SEC/DTI registration, Mayor's/Business Permit, BIR registration, and latest audited financial statements (or equivalent).
- Proof of authority of signatory (Board Resolution/Secretary's Certificate or Special Power of Attorney).
- Manufacturer's authorization (if bidder is not the manufacturer).
- List of at least two (2) similar completed projects in the last five (5) years with supporting documents and client references (Annex A).
- Technical proposal, including: detailed brochure/datasheets, process flow, equipment layout, utilities requirements, and compliance matrix against Section 5 (Annex B).
- After-sales and service plan, including response time, service team profile, and spare parts availability plan.
- Proposed training plan (two weeks) and training materials outline.
- Warranty statement and service commitments (Annex C).
- Delivery and installation schedule per Lot.

12.2 Financial Proposal

- Duly accomplished Price Schedule per Lot (Annex D), including itemized equipment costs, delivery, installation, training, taxes/duties, and any optional items.
- Bid validity (minimum 90 days from bid submission deadline).
- Any applicable discounts and payment terms.

BID SUBMISSION, OPENING, AND CLARIFICATIONS

Deadline for Submission	31 March 2026, 5:00 PM (Philippine Time)
Submission Address	PEMSEA Resource Facility PEMSEA Office Building, DENR Compound Visayas Avenue, Quezon City Attention: Procurement Committee

	<p>Or via dedicated email to:</p> <p>oda@pemsea.org</p> <ul style="list-style-type: none"> • Compress all bidding documents into a zipped folder • Put “CONFIDENTIAL – BID SUBMISSION FOR PRF/ODA/2026-001” in the Subject line
Bid Opening	6 April 2026, PEMSEA Resource Facility
Clarifications	Requests for clarification must be submitted in writing to emerina@pemsea.org no later than ten (10) calendar days before the submission deadline.
Pre-bid Meeting	1 April 2026

Late bids will not be accepted. PRF reserves the right to accept or reject any bid and to annul the bidding process at any time without incurring any liability.

EVALUATION AND AWARD

Bids will be evaluated for compliance, responsiveness, and value for money. The following criteria will be used:

- Eligibility and completeness of submitted documents.
- Technical compliance with the minimum specifications.
- Demonstrated capacity for installation, commissioning, training, and after-sales support.
- Financial evaluation of the lowest evaluated responsive bid (LERVB) per Lot, subject to PRF’s best value determination.

PRF may conduct site visits to bidder facilities, require product demonstrations, and/or request clarifications during evaluation.

KEY CONTRACT TERMS (SUMMARY)

- Delivery Terms: Delivered, installed, tested, and commissioned at the designated LGU site (door-to-door).
- Payment Terms: 20% upon contract signing; 60% upon delivery; 20% upon acceptance.

ANNEXES

1. Annex A – Similar Project Experience Form
2. Annex B – Technical Compliance Matrix
3. Annex C – Warranty and After-Sales Commitment Form
4. Annex D – Price Schedule (Bill of Quantities)

Annex B – Technical Compliance Matrix

Bidders must indicate COMPLY / NOT COMPLY and provide reference to brochure/datasheet page numbers.

Requirement	Minimum Specification	Bidder Offer / Reference	Comply (Y/N)
Plastic Shredder/Crusher	Input capacity: $\geq 1,500$ kg/day; Hardened steel blades; robust housing; safety covers/guards	[Fill in]	[Y/N]
Washing Tubs (2 units)	System input capacity: ≥ 2 tons/day; Motor: 10 HP, 3-phase each (or equivalent)	[Fill in]	[Y/N]
Centrifuge Dryer	Industrial-grade centrifuge dryer; Input capacity: ≥ 2 tons/day	[Fill in]	[Y/N]
Melting Machine / Extruder	Input capacity: ≥ 2 tons/day; Motor: 40 HP, 3-phase	[Fill in]	[Y/N]
Pressing/Compression Molding Machine	Input capacity: ≥ 2 tons/day; Motor: 30 HP, 3-phase (or equivalent hydraulic power unit)	[Fill in]	[Y/N]