



**Bid Form for the Procurement of Goods**

**BID FORM**

**SUPPLY, DELIVERY AND INSTALLATION OF ZERO FUEL PLASMA PYROLYSIS  
WASTE DEGRADATION & REDUCTION SYSTEM**

Date: \_\_\_\_\_  
Project Identification No.: \_\_\_\_\_

To: DON EMILIO DEL VALLE MEMORIAL HOSPITAL  
Bood, Ubay, Bohol

Having examined the Philippine Bidding Documents (PBDs) including the Supplemental or Bid Bulletin Numbers *[insert numbers]*, the receipt of which is hereby duly acknowledged, we, the undersigned, offer to *[supply/deliver/perform Supply, Delivery and Installation of Zero Fuel Plasma Pyrolysis Waste Degradation & Reduction System]*;

Item No.	Description/General Specification	Brand/Manufacturer / Source	No. of tests or quantity per kit/bot/box/vol	Unit	Quantity	Unit Price	Total
1	SUPPLY, DELIVERY AND INSTALLATION OF ZERO FUEL PLASMA PYROLYSIS WASTE DEGRADATION & REDUCTION SYSTEM			lot	1		
	I. Equipment Specifications						
	• Electric Powered & Smokeless (4-12 cu. m volume of waste per 12-24hrs)						
	• Temperature Range: 300-1,100 degrees centigrade						
	• Atleast 4,370mm length, 1,330mm width, 2,260mm height						

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	<ul style="list-style-type: none"> <li>• Not more than 4,000 kg weight</li> </ul>						
	<ul style="list-style-type: none"> <li>• Chamber Volume: ±1.0cu.m (approx.. 3 units of the standard 240L MGB)</li> </ul>						
	<ul style="list-style-type: none"> <li>• Door Opening: (W) ±800mm x (H) ±500mm</li> </ul>						
	<ul style="list-style-type: none"> <li>• Ashtray Door: (W) ±700mm x (H) ±250mm</li> </ul>						
	<ul style="list-style-type: none"> <li>• Electrical Parts: 2 units exhaust fan, 2 units blower fan and 2 units water pump</li> </ul>						
	<ul style="list-style-type: none"> <li>• Electricity, kW/h: Not more than 7kW per hour</li> </ul>						
	<ul style="list-style-type: none"> <li>• Use No.8 sq.mm THHN wire</li> </ul>						
	<ul style="list-style-type: none"> <li>• Use 40 AT, 100AF, 10kaic, 230 volts Molded Case Circuit Breaker (MCCB) with NEMA 3R Enclosure</li> </ul>						
	<ul style="list-style-type: none"> <li>• Water/Liter: 1.5L ~ 2.5L/Hour</li> </ul>						
	<ul style="list-style-type: none"> <li>• Water Discharge: None</li> </ul>						
	<ul style="list-style-type: none"> <li>• Segregation: Minimum to NIL</li> </ul>						
	<ul style="list-style-type: none"> <li>• Hourly Throughput: 3 units x 240L MGB/Hour</li> </ul>						
	<ul style="list-style-type: none"> <li>• Fabrication: Mild Steel/Stainless Steel Fabrication</li> </ul>						
	<ul style="list-style-type: none"> <li>• With stainless conventional water tank at least 1000 liters</li> </ul>						
	<ul style="list-style-type: none"> <li>• With at least 1hp motor pump, stainless, single stage, heavy duty</li> </ul>						
	<ul style="list-style-type: none"> <li>• Pollution free with full compliance with (United states Environmental protection agency) US EPA standard or its equivalent</li> </ul>						

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	<ul style="list-style-type: none"> <li>• With accessories: Bottom Ashtray, Oil Trap, Vapor Trap, Ash Container C/W Siever, Loading Trolley, Carbon Tray, Filter Housing Opener, Shovel, Scraper, Magnetic Retriever, Door Opening Short, Door Opening Long, Glass/Vials Crasher, 1.5 HP pressure washer, Personal protective equipment (Gas mask, goggles and safety glasses, gloves, suit)</li> </ul>						
	<ul style="list-style-type: none"> <li>• It should be smokeless and odorless with no hazardous emission contamination (shall comply with Environmental Quality (Clean Air) Regulation of 2014 and US EPA Standards)</li> </ul>						
	<ul style="list-style-type: none"> <li>• Energy operation requirements not more than 1,000 pesos per day consumption for utilities expense (Electricity, Water and/or gas/LPG) with 10 cycles/day operation per unit.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Waste by product shall not exceed 20% of initial volume and/or weight or better and shall be considered general non-infectious waste.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Can process organic waste decomposes into non-harmful, non-hazardous for re-purposing.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Can treat all potential contaminated medical waste of at least 1000 kilo per day per unit.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Treats infectious waste by any thermal process</li> </ul>						

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	<ul style="list-style-type: none"> <li>• Can manage the following materials of solid waste/ non-hazardous wastes from hospital (Plastics, PET bottles, Papers, Rubber, Tubes, Tires, Municipal mixed waste, Industrial, Commercial, Residential, Clinical, Electronics, Fabric and Textile, Green waste &amp; Chemicals) and ensure that emissions do not harm the environment</li> </ul>					
	<ul style="list-style-type: none"> <li>• Shall comply with the DENR standards and requirements, provide approved Treatment, Storage and Disposal (TSD) Certification, approved Permit to Operate (PTO) and approved Environmental Compliance Certification, Environmental Technological Verification, process online application, amend Environmental Compliance Certification. No Payment shall be made to the supplier unless all the above-mentioned permits and certifications will be provided.</li> </ul>					
	<ul style="list-style-type: none"> <li>• Manual in English language</li> </ul>					
	<ul style="list-style-type: none"> <li>- Operation manual must be included in the submission of bidding documents</li> </ul>					
	<ul style="list-style-type: none"> <li>- Service manual with soft copy and hardcopy during delivery</li> </ul>					
	<ul style="list-style-type: none"> <li>• Training program for end-user on equipment's operation with certificate technical training</li> </ul>					

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	<ul style="list-style-type: none"> <li>The equipment installed shall have a warranty of at least one (1) year for all moving parts like fans and motors, while for the Enclosure/Waste Treatment Facility, the warranty shall be five (5) years.</li> </ul>						
	<ul style="list-style-type: none"> <li>Declaration of conformity with ISO/Tec/PNS as issued by the manufacture or its equivalent.</li> </ul>						
	<ul style="list-style-type: none"> <li>Certification on the availability of spare parts for the next 5 years duly notarized</li> </ul>						
	<ul style="list-style-type: none"> <li>Certification from the manufacturer authorizing the bidder to exclusively participate in the bidding duly notarized.</li> </ul>						
	<ul style="list-style-type: none"> <li>Certificate of after sales duly notarized</li> </ul>						
	<ul style="list-style-type: none"> <li>With calibration certificate (if necessary)</li> </ul>						
	<ul style="list-style-type: none"> <li>Preventive maintenance quarterly for a period of three (3) years</li> </ul>						
	<ul style="list-style-type: none"> <li>With actual supervision from the supplier within the duration of one (1) year</li> </ul>						
2	SUPPLY, DELIVERY OF LABOR AND MATERIALS FOR THE CONSTRUCTION OF ZERO FUEL PLASMA PYROLYSIS WASTE DEGRADATION & REDUCTION SYSTEM EQUIPMENT BUILDING			lot	1		
	II. Construction of Waste Treating Equipment Building						

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	A. Site Works						
	<ul style="list-style-type: none"> <li>• Clearing &amp; Grubbing - including leveling &amp; compaction of existing ground</li> </ul>						
	B. Earthworks						
	B.1. Excavation						
	<ul style="list-style-type: none"> <li>• All excavation shall be performed by the Contractor to the excavation lines, grades and slopes and profiles shown in the drawings. Excavation beyond the normal limits shall not be paid for.</li> </ul>						
	B.2. Backfilling Including Compaction						
	<ul style="list-style-type: none"> <li>• Fill and backfill materials shall consist of suitable materials from excavation or from approved borrow areas, and shall be free from roots, wood scraps, vegetations, and other extraneous materials and from large clods of earth or stones greater than 100mm. Backfilling may only proceed when concrete has sufficiently cured. Observe enough care during backfilling not to disturb or damage the newly placed concrete.</li> </ul>						
	C. Structural & Concrete Works (Refer applicable Sections on Chapter 4 of the NSCP, for Quality of Materials, Workmanship, execution, acceptance, etc.)						
	C.1. Standards						

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	<ul style="list-style-type: none"> <li>• Except as modified by governing Codes and by Contract Documents, comply with the provisions and recommendations of the following, latest Edition:</li> </ul>						
	- ANSI American National Standards Institute						
	- ASTM American Society for Testing of Materials						
	- ACI American Concrete Institute						
	- NBCP National Building Code of the Philippines and its revised IRR						
	- NSCP National Structural Code of the Philippines						
	C.3. Concrete (Construction of Waste Treating Equipment Building)						
	<ul style="list-style-type: none"> <li>• Concrete pouring using concrete strength 4,000psi ready mix or job mixed concrete together with the concrete cylinder sample for testing materials.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Site-Mixed Concrete (Job mixed concrete) - All structural concrete shall be machine-mixed for at least 1 ½ minutes after all materials including water are in the mixing drum. No hand mixing shall be allowed, except in case of emergency of breakdown during pouring operations.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Ready-Mixed Concrete - mixed and delivered from a plant approved by the Project Manager, and shall be in strict compliance with the requirements set forth in ASTM C94.</li> </ul>						

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	<ul style="list-style-type: none"> <li>• Concrete shall be placed only after all formworks, materials to be embedded, and preparation of surface involved in the placing have been inspected and approved by the Hospital Engineer. The Contractor shall provide equipment and shall employ methods that will minimize separation of aggregates from the concrete mix. Concrete in columns shall be placed in one continuous operation. Concrete in girders, beams and slabs in superstructures shall be poured in a monolithic and continuous manner. No construction joint shall be allowed on any part of the structure without the approval of the Hospital Engineer.</li> </ul>					
	<p>C.4. Steel Reinforcements (Construction of Waste Treating Equipment Building)</p>					
	<ul style="list-style-type: none"> <li>• Securing the reinforcements using #16 G.I. tie wires.</li> </ul>					
	<ul style="list-style-type: none"> <li>• Steel reinforcement shall be provided together with all the necessary tie wires, spacers, support and other necessary devices. Reinforcing steel shall be accurately cut and bent in accordance with the approved detailed reinforcement drawings.</li> </ul>					
	<p>C.5. Formworks (Construction of Waste Treating Equipment Building)</p>					

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	<ul style="list-style-type: none"> <li>• All forms shall be designed by the Contractor for a safe construction activity and installed to dimensions shown on the Drawings.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Using phenolic boards on formworks with shoring supports.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Forms shall be used whenever necessary to confine the concrete and shape it to the required lines and dimensions, or to protect the concrete from contamination. Forms shall have sufficient strength to withstand the pressure resulting from placement and vibration of the concrete, and shall be maintained rigidly in correct position. Forms shall be sufficiently tight to prevent loss of mortar from the concrete.</li> </ul>						
	C.6. Structural Steel and Metal Works (Refer Chapter 5 of the NSCP) (Construction of Waste Treating Equipment Building)						
	<ul style="list-style-type: none"> <li>• Materials steel and metals for the Works shall meet the requirements of ASTM A36, hot-rolled shapes and plates.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Welding works shall be in accordance with Structural Welding Code (American Welding Society-D1.1, latest edition). Welding electrodes shall be E70xx, minimum, meeting the requirements of AWS A.5. All welders shall meet the qualifications under the AWS Codes and standards.</li> </ul>						

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	• Roof framing						
	Roof framings/rafters shall be constructed, erected, and properly anchored to the roof beams or columns as indicated in drawings.						
	D. Architectural Works						
	D.1 Painting Works						
	• Exterior Finishes						
	- One (1) coat of concrete neutralizer by roller, let dry for 6 hours.						
	- Putty surface imperfections, hairline cracks with patching compound using putty knife.						
	- Two (2) coats Primer by roller						
	- Finish with two (2) coats Acrylic Topcoat Semi-Gloss						
	• Structural & Architectural Steel – G.I. Pipe Schedule 40 Columns, Roof Framings, Steel Beams, Catch Basin Cover & Drain Grill Barrier						
	- Prepare the surface properly						
	- Apply one coat of Primer						
	- If necessary, apply Polyester Body Filler by using putty knife.						
	- Apply two coats of Acrylic Topcoat Semi-Gloss						
	D.2 Roofing						
	• Roof sheets must be in GA 24 G.I. rib-type long span, pre-painted roofing.						
	• Roofing shall be fastened properly to the purlins by a 2-½ inch tec screw (self-drilling screw).						
	E. Plumbing Works						
	E.1 Sanitary Layout						

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	<ul style="list-style-type: none"> <li>• Provide 4" diameter drainage for cleaning and disinfection purposes of the building.</li> </ul>						
	<ul style="list-style-type: none"> <li>• Use 2pcs 6" floor drain w/ 4" diameter PVC pipes &amp; fittings that will be connected to the near existing Septic Vault.</li> </ul>						
	F. Landscape						
	F.1 Fruit-bearing plants with pavers						
	<ul style="list-style-type: none"> <li>• Provide four (4) fruit bearing plants around the housing structure with pavers.</li> </ul>						
	G. Detailed Architecture and Engineering Design (DAED)						
	<ul style="list-style-type: none"> <li>• Provide the necessary DAED that is required for the equipment.</li> </ul>						
	COMPLETION/DELIVERY PERIOD						
	∅ The Completion of the Project shall be One Hundred Fifty (150) Calendar Days upon receipt of the notice to proceed including the delivery, installation, testing and commissioning.						

**Grand Total** \_\_\_\_\_

in conformity with the said PBDs for the sum of *[total Bid amount in words and figures]* or the total calculated bid price, as evaluated and corrected for computational errors, and other bid modifications in accordance with the Price Schedules attached herewith and made part of this Bid. The total bid price includes the cost of all taxes, such as, but not limited to: *[specify the applicable taxes, e.g. (i) value added tax (VAT), (ii) income tax, (iii) local taxes, and (iv) other fiscal levies and duties]*, which are itemized herein or in the Price Schedules,

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If our Bid is accepted, we undertake:

- a. to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements of the Philippine Bidding Documents (PBDs);
- b. to provide a performance security in the form, amounts, and within the times prescribed in the PBDs;
- c. to abide by the Bid Validity Period specified in the PBDs and it shall remain binding upon us at any time before the expiration of that period.

*[Insert this paragraph if Foreign-Assisted Project with the Development Partner:*

Commissions or gratuities, if any, paid or to be paid by us to agents relating to this Bid, and to contract execution if we are awarded the contract, are listed below:

Name and address of agent	Amount and Currency	Purpose of Commission or gratuity
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(if none, state "None" ) ]

Until a formal Contract is prepared and executed, this Bid, together with your written acceptance thereof and your Notice of Award, shall be binding upon us.

We understand that you are not bound to accept the Lowest Calculated Bid or any Bid you may receive.

We certify/confirm that we comply with the eligibility requirements pursuant to the PBDs.

The undersigned is authorized to submit the bid on behalf of *[name of the bidder]* as evidenced by the attached *[state the written authority]*.

We acknowledge that failure to sign each and every page of this Bid Form, including the attached Schedule of Prices, shall be a ground for the rejection of our bid.

Name: \_\_\_\_\_

Legal capacity: \_\_\_\_\_

Signature: \_\_\_\_\_

Duly authorized to sign the Bid for and behalf of: \_\_\_\_\_

Date: \_\_\_\_\_

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