PAMBANSANG PUNONGHIMPILAN TANOD BAYBAYIN NG PILIPINAS
(National Headquarters Philippine Coast Guard)
Bids and Awards Committee
139 25th Street, Port Area, 1018 Manila

SUPPLEMENTAL/ BID BULLETIN NO. 01-2023

This Supplemental/Bid Bulletin No. 01-2023 is issued to include the following clarifications and recommendations from the prospective bidders as an integral part of the Bidding Documents for the **Supply and Delivery of 40 Units 12-15 Meter Seacraft High-Speed Response Boat.**

Section VII. Technical Specifications

Section VII. Technical Specifications is hereby amended to read as and additional item/s must be included as required:

TECHNICAL SPECIFICATIONS

1. Name of Project:

Supply and Delivery of 40 units 12 -15 Meter Seacraft High-Speed Response Boat for Philippine Coast Guard

Requirements

2. Components:

Item Description	Quantity
12-15 Meter Seacraft High-Speed Response Boats	40 units

3. Scope of Work:

Not Applicable

4. Technical Specifications:

Item	Specification
1. 12-15 Meter FRP	Key PCG Responsibilities: • Maritime Security (MARSEC) • Maritime Law Enforcement (MARLEN) • Maritime Safety (MARSAF) • Maritime Environmental Protection (MAREP) • Maritime Search and Rescue (MASAR) • Maritime Patrol

[redacted]	• Vessel Boarding, Search and Seizure (VBSS)
a. Length Over All	- Not less than 12 meters
b. Breadth	- Not less than 3.20 meters (10 feet- 5 inches)
c. Draft (at full load condition)	- Between 0.60 meters (23.5 inches) to 1.0 meter (39 inches) Draft is measured from hull bottom to waterline at full load condition. Boat Trim shall not exceed 5 degrees bow up attitude at static draft reading.
d. Propulsion	- Maximum of two (2) Outboard Motors, 2 strokes or 4-stroke, Diesel-fed Engine, standard and counter-rotating with optimized stainless-steel propeller, complete hydraulic steering system with padded steering wheel and matching OEM recommended Control head unit(s). - Fuel consumption not more than 50L/Hr at cruising speed and not more than 65L/Hr at full speed per engine. - Heavy duty design gearbox with hydraulic clutches or vertical shaft drive propulsion transmission system. - Belt propulsion design for high torque transfer or vertical shaft drive propulsion transmission system. - Trolling mode down to 2 kts that enables operator more precise control. - Design for Crash stop and quick shift capability- can throw directly into reverse without breaking gearbox; allows operator to shift between forward/reverse/neutral smoothly. - Alternator output at least 180 Amp per engine - Water cooled, closed cooling circuit. - Heavy Duty/ Continuous Rating
	- Each Engine shall be provided with Instrument Gauges, and as a minimum, shall consist of Tachometer, Voltmeter gauge, OEM Standard Ignition Switch System with a keyless ignition system with wireless engine cut off switch in

		case of emergency or man overboard, and Fuel gauge with matching sensor installed in Each Fuel tank.
		- Equipment and machinery items (including electrical equipment) shall be designed and installed to facilitate access for purpose of maintenance. Adjustment, inspection, and repair. Removal of previously installed items to access equipment to be maintained, inspected, adjusted, or repaired is not acceptable.
		- Each engine shall have a dedicated starting battery bank. Additional Batteries are required and defined under the Electrical Section.
	e. Fully Enclosed Main Cabin (Pilot House) with Seats	- A Fully enclosed Main Cabin (Pilot House) shall be provided complete with Operator's Control Console and Navigator Control Console, watertight aluminum or FRP aft cabin door with key lock and window, watertight aluminum or FRP fwd cabin door with key lock for bow egress, overhead cabin hatch, Fixed and Sliding Windows, and Windshield, at least 6-shock mitigating / Seat Type Seats and one at least 2-man bench seating. Complete Maritime Sanitation Device with the pump-out system, and AC System. The cabin shall be provided with LED red/white lights, handrails, and anti-fatigue (padded) floor. (4) Oscillating Cabin electric cabin fans with switch. Floor drains shall also be provided.
		- Navigator and Operator Control Console(s) shall be designed to accommodate equipment and gauges to operate the boat properly and safely.
		- Each Windshield, Fixed, and Sliding Window shall be constructed using black anodized aluminum frames with scratch abrasion-resistant polycarbonate. Thickness for side windows shall be a minimum of ¼ inch. Each front Windshield shall be constructed using black anodized aluminum frames with scratch abrasion tempered glass TSG. Windshield shall be provided with marine-grade self-park electric wiper system with pantograph arm, and 12-volt washer system. Washer Tank shall be

	located where it is easily accessible for service.
	- The PCG Logo and colors shall be provided on the port and starboard side of the cabin as per PCG design. The PCG Boat number and marking shall be installed from 001-040. The minimum size of characters shall be 500mm and will be installed on collar away from the rub strakes. Location shall be made visible from a 45 degree angle.
	- Overhead watertight hatch shall be provided with lock for added security when the boat is not in use.
	- A fully enclosed restroom with a door complete with ventilation system, Marine Sanitation Device (MSD) System and Sink with faucet shall be provided. MSD System shall be complete with waste tank, marine-grade toilet, flush-out system, a waste pump-out system with built-in an electric motor. MSD System shall be designed complete with necessary valves, adaptors, and fittings to properly operate waste discharge. Restroom floor drains shall also be provided.
	- Main Cabin, including Restroom, shall be finished as follows: Overhead shall be made with materials that provide thermal and sound insulation, light color. Wall Interior Sides shall be finished using Polyurethane Paint. All Exterior shall be mold smooth finish.
	- Air-condition system shall be capable of maintaining the cabin temperature to a minimum of 24 degrees Celsius. DC Control Switch shall be located on Console.
	- Each of the 6 seats provided inside the cabin shall be designed to be Jockey shock absorbent seat with suspension system, with grab rail; foam for cushion shall be close cell type, 2 ½ inches thick min and covered with marine grade UV resistant fabric. All stitching shall be double and waterproofed. 2-man aftbench seat with grab rails shall also be provided.
f. Payload	- Not less than 3,850 kgs as defined herein
g. Speed	- All boats speed runs are to be determined with the boat ballasted in the Half-Load Condition Load and in the

		Builder's Trail Condition Load. During speed runs, the following items will be determined in each load condition:
		- Optimized cruising speed to be determined by the proponent. Minimum speed 32 knots.
		- Full Speed not less than 40 knots at half load condition
		- Time of speed acceleration from 0 knots (Dead stop) to cruising speed: not more than 45 sec to 60 seconds
		- Time of speed acceleration from cruising speed to full speed: not more than 30 to 45 seconds
		- Duration to attain full speed not more than 90 seconds
	h. Boat Fendering System	- Boat Sheer Lines Fendering system ("D" Shape), 20 inches min flat area shall be closed-cell solid Ethylene Vinyl Acetate foam, fire retardant with Polyurea Elastomer Covering of approximately 6 mm (1/4 inch) minimum thickness. - Sheer line fendering system shall be provided with retro-reflective tape - **Color:**black
	i. Survivability	- Can withstand and still functional at sea state 3 condition (1.25m) - Survivability at sea state 4 condition (1.25m-2.25m)
	j. Hull Type, Deck Control Console and Stowage box with LID and all	- ALL FRP – Hull, Deck, Cabin, Aft Box Stowage Box, & ALL other small parts shall be gel coat finish applied to the mold, Hull, Deck and Main Cabin shall be white gelcoat finished on 30 boats and grey gelcoat finished on 10 boats. Main Deck walking area shall be with built-in nonskid.
		- ALL FRP Construction: Composite material using fiberglass and carbon fibre, utilizing 100% Vacuum Infusion Process (VIP) utilizing only Epoxy resin and lightweight and high strength stitched fabric.
		- Monohull, Deep V with spray rails Fiberglass Reinforced Plastic (NON-STEPPED HULL), increased thickness solid keel, inner and outer hull lamination for impact tolerance,

		sandwich parts shall utilize closed-cell Polyvinyl Chloride (PVC) at least 100 kg/m3 or Polyethylene Terephthalate (PET) at least 100 kg/m3. Laminate scantling design shall be in accordance with ISO 12215-5 and 12215-6 (no wood allowed). The Bidder can also provide alternative Laminate Standard used provided it is substantiated with calculations and test data as a minimum and certified by a third party. The laminate test shall be in accordance with the ISO standards 12215.
		Complete Drainage system, throughout the whole boat, from deck till each below deck compartment.
		- Limber holes installed on boat to allow complete drainage of water to bilge area
		- After fabrication, exposed FRP laminates (normal view), shall be finished using polyurethane marine-grade paint, white color with the black and white spec (Polyurethane paint or equal). Includes Console interior, Hatch underside, transom interior area, and void hull spaces that will be exposed after the deck is installed.
		- There shall be no protruding surface fibers and, no surface crazing or pinholes in finished parts.
		- Deck with built-in no-skid (Glued on non-skid Not acceptable) walking surfaces with high capacity drains.
	k. Gun post with Gun Mount and associated components	- Three (3) mounts (1 fwd and 2 aft) with universal adaptor capable for holding 50 cal, in the fwd gun support and M60 on the aft supports. Each gun post shall be designed to handle 1500 lbs. of gun recoil. Material shall be constructed using Marine Grade Aluminum and shall be designed to a safety factor of five (5) on the Ultimate Strength of the material.
		- Each Gun Post shall be installed with respective gun mounts on each of the Gun Mounts of the boat. Gun mount shall be provided with Sleeve adapter for use with 50 cal and M60 Machine Gun , Swing Arm (with a lock when the gun is not in use or during transit, and Gun Mount Ballistic Shield, Level 3 complete with mounting bracket, Horizontal mounted gun ammo box (200 rounds min for 50 cal). Gun adapters, ammo

	boxes and Ballistic shields to be supplied by end user.
l. Fuel Tank and Fuel System	- Fuel Tank shall be constructed using 3 / 16" thick minimum marine-grade aluminum or high strength plastic, made of High density polyethylene (HDPE). Fuel tank shall electricity grounded and designed with cleanout plates, and with the capability to strip fuel tank of water. Fuel tank stripping pump shall be marine grade, compatible with diesel use. Fuel Tank (s) shall be painted marine-grade primer suitable for marine use and aluminum material if material used is aluminum. HDPE diesel tank(s) must be certified. - With First stage Refueling Filter.
	- Minimum total fuel tank capacity shall be 1,500 liters (approximately 400 US Gallons) with 10% fuel reserve to accommodate at least 400 NM range min in Wide-Open-Throttle (WOT) and 40 knots speed at half load condition. A minimum number of hours for operation shall be 10 hrs. at WOT
	- Fuel Shut-off ball valves for each tank shall be provided to facilitate repair and maintenance of equipment. Valves shall be bronze, brass, or stainless steel only and compatible for fuel use.
	- Fuel Fill size shall be a minimum of 2-inch fuel pipe of Fuel Fill Deck Plate with "DIESEL" Marking. Fuel fill deck plate shall be grounded.
	- A minimum of one (1) fuel vents per tank shall be provided with a 3/8 inch ID hose. Fuel vent fittings shall have flame arrester and installed with inverted loop
	- Fuel hoses shall be compatible fuel use. Fittings shall be corrosion resistant (bronze, brass, or stainless steel only) and reusable type.
	- Hoses shall be secure using corrosion-resistant stainless steel clamps with cushions.
	- Fuel gauge sending unit in each tank
	- Fuel filters/water separators with water sensors for each installed engine. Location Shall be easily accessible for ease of repair and maintenance
m. Outboard Bracket	- A marine-grade aluminum and/or FRP

	and Engine Guard	Heavy Duty Transform Outboard Bracket shall be utilized for engine installation. Outboard Bracket shall be provided with ¾ inch NPT stainless steel drain plug assembly and watertight portholes. After Fabrication, the Bracket shall be painted using polyurethane paint with surface preparations in accordance with OEM recommendations.
		- Outboard Bracket shall be designed to withstand the pounding at all load conditions at sea state 3 minimum.
		- Guard shall protect engines from minor collisions and from fouling of tow rope in propellers. Marine Grade Painted and approved for aluminum use or black hard anodized.
	n. Navigational and Communications Equipment	Boat shall be outfitted with the latest models of the following equipment: - Radar between 18" and 24" with atleast 36 NM Range, Beam Sharpening, Automatic Gain, MARPA, Target Tracking. Radar shall be calibrated. - Multi-touch, Multifunction Display (MFD), at least 9" widescreen, HD, 720x1280 resolution - AIS - Day and Night Vision Camera with Infrared/Thermal - Night Vision Goggles (5 units) - GPS, High-Speed Position Update, Rapid Signal Acquisition, 32 GPS Receiver Channels - Accurate Heading Accuracy of +2 - Transducer, Dual-frequency, 50KHz/200KHz, 600W, P79, provides extremely accurate data. - All components shall be interconnected per OEM instructions. - Radar Arch shall be constructed using aluminum, marine-grade, and designed to withstand the impact loads. - Tablet with 1 year subscription of I sailor or navionic. 11 inch with chipset Qualcomm SM8450 Snapdragon CPU Octa-core (1x3.00 GHz Cortex-X2 & 3x2.50 GHz Cortex-A710 & 4x1.80 GHz Cortex-A510) GPU Adreno 730

			- Marine VHF Radio, Black, flush-mounted, with AIS function, Class D Digital Selective Calling (DSC) Standard. - 3 feet min whip type antenna, Stainless Steel, 3dB gain min, with copper element installed with extra heavy-duty stainless steel ratchet antenna mount. - Marine VHF Radio interfaced to Electronic Navigation System I GPS and AIS.
			- Magnetic compass, 4 inches min, flush type.
			- LED Navigation Lights in accordance with 72 Collision Regulations (COLREGS). Up to 2 N.M. visibility, Side Light, and All-Round White Light.
			- A 12V DC Dual Trumpet Marine Grade Navigation Horn shall be installed. 100 percent stainless steel exterior, minimum of 110 dB(A) rating at 1 meter. A horn switch (momentary activation style) shall be provided and clearly labeled.
			- Minimum of two (2) Rechargeable Hand Held spotlight with charging/power supply cord compatible for use with cigarette type 12VDC socket, 1300Lumens, Lithium rechargeable battery, waterproof marine grade. Spotlight outlet shall be provided at console dash
			- Mobile Intercom System (handheld radios for 5 crew plus earphones for each)
			- GPS/WAAS Chart Plotter with built-in Depth Meter Sensor/ CHIRP Fish Finder
			- Water Resistant law Enforcement Hailer/Siren System: installed with a wail, yelp, piercer tones (500Hz to 1500Hz), and air horn (500Hz to 1000Hz) capability. Public Address and radio repeat. Hands-free capability, cycle through siren tones using the horn button, manual control, and auxiliary switch. Hailer/Siren System shall be equipped with Amplifier, 100W Speaker, and Flush mount Control head. Law Enforcement Rotating Blue Light shall be provided. Rotating Blue Light shall be Marine Grade, LED and shall be provided with its own circuit switch

		installed on Cabin interior dash.
	-	Boat electrical components and subcomponents are suitable for a marine environment and isolated from marine environment.
o. Electrical System	-	As a minimum, The Boat electrical systems will utilize low smoke zero halogens (LSZH) commercial marine multi-conductor, with tinned copper conductors, marine-grade, flexible stranding.
	-	For ease of repair and maintenance, cables will be clearly labeled at ends using aluminum cable tags or shrink tubing with mechanically applied lettering.
	-	Single conductor UL standard wire may be used in enclosures and for jumper wires.
	-	All conductors will be labeled at termination points using heat shrink sleeving with mechanically applied lettering (exception: color-coded engine and other OEM wire harnesses).
	-	Multi-conductor cable (vice individual wires) will be used to the maximum extent practicable. Individual wiring or wiring harnesses will only be installed inside the console, electrical enclosures/connection boxes, or were provided as OEM equipment (example: engine harnesses).
	-	Terminal lugs/rings with proper cable sizing and stud sizing shall be used all thru electrical connections. Terminal rings shall have built-in heat shrink tubing. Terminal lugs/rings shall be of the tinned, solderless crimp type with ring ends in accordance with UL 486A.
	-	Cables shall be continuous between termination; splicing is permitted only on the equipment with pigtails
	-	Anti-chafing grommets shall be provided for wire penetrations.
	-	If wires must be spliced, splices shall be accomplished using suitably sized heat shrinkable butt splice connectors, crimped and shrunk in accordance with manufacturer's instructions, with a section of adhesive lined heat-shrinkable tubing installed over the area of the splice.
	-	12VDC Electrical System Package with

		Marine Type, weatherproof, Circuit Breakers, Starting Battery Bank (one for each engine), and House Battery Bank. Additional batteries may be installed to properly and correctly provide enough power to all equipment installed. Batteries shall be installed and connected to an automatic charging relay (ACR) with circuit protection included. The following are the different battery requirements: • House Battery; to service, the electronics and other equipment installed • Starting Battery; each engine shall be provided with its own dedicated battery	
		- Spare Circuit breakers shall be provided in the following configuration: a. One (1) Spares - 5 amp each b. One (1) Spares - 10 amp each c. One (1) Spares - 30 amp each (for space and power reservation of tactical radio)	
		- 220 VAC/60 Hz, 50 amp (min) shore power system with shore power receptacle, distribution system for 220 VAC/60 Hz electrical loads: battery charger shall be capable of charging all batteries (starting and house batteries) and duplex receptacle. Fifty (50) feet shore power cable provided.	
		- Bonding system shall be sized and installed integrated as a minimum to Radio, Fabricated Parts, and Navigational Equipment. All anodes shall NOT be painted.	
		- Two (2) 12 Volt DC outlets and Two (2) USB outlets with waterproof covers located in the Control Console Area. Outlet shall be marine grade	
		- Bilge Pump System - Three min (3),12 VDC electric bilge pump with a minimum rating of 2000 gallons per hour shall be provided and installed with matching or built-in float switch for automatic operation. The pump shall be provided with a Manual (Momentary)/Off/Auto control switch and pump running indicator light located on the console. Electrical power to the bilge pumps shall be fed from the unswitched side of the	

	house battery switch via appropriate dedicated circuit protection. All bilge water shall drain completely to the pump location. Thru-hull mushroom head fittings shall be in Stainless steel, marelon or nylon type.
	- The Boat shall be equipped with at least three (3) LED dome lights at least one with a three-position switch on (red)-off-on(white) lighting, 12VDC (red:1W, white:3W/5W), ultra-long 50,000- hour service life, surface-mount LED dome style.
	- Minimum of Four LED (4) Deck/Courtesy Work Lighting shall be installed in the boat with a waterproof rating of IP67, 12VDC, white, non-dim, 150 lumens. Deck Work Lighting shall be installed at lower face each side aft and fwd well deck.
	- Four (4) LED Flood Light, 12VDC 1.3A, 1000 lumens, 5000 correlated color temperature. LED Flood Lights shall be installed at Cabin exterior sides, two (2) fwd, and two (2) aft
p. Accessories	
	- Hoisting Slings package include stainless steel wire rope or Web Lifting Sling with sling saver stainless steel shackles, oblong or pear shape link to be supplied with each boat.
	- Storage below Deck compartments for Hoisting sling and all other outfit items.
	- Fasteners to be utilized shall be 304 or 316L grade stainless steel.
	- Heavy-duty 15 kg galvanized, anchor and anchor rode package (secured to anchor locker structure). QTY: 1 set
	- Six (6) stainless steel or aluminum deck cleats shall be mounted forward/middle/aft of the boat. Cleats shall be installed to accommodate the mooring lines provided (minimum 12.7 mm diameter line).
	- Low-profile, stainless steel Deck Tie downs shall be provided and installed for tying down gear and equipment on the deck. At minimum two (2) fittings Fwd and two (2) fittings aft shall be provided. All other miscellaneous hardware shall be in stainless steel material only.
	- Mooring lines, ½ inch diameter nominal X 25 feet long minimum, pre-spliced

		double-braided nylon. QTY: 3 each
		- Tow rope, 9,000 lbs. breaking strength X 75 meters long, minimum: QTY: 1 each
		- Boat Fender, air type, 200mm (8 inches) diameter X 600mm (24 inches) long each with 3-meter rope, 6.35 mm diameter for attaching fender: QTY: 4 each
		- Flag Staff, heavy-duty, designed to accommodate a flag 300 mm X 450mm min. Shall be mounted on Cabin. QTY: 1 each
		- Automatic Inflatable Life Jacket (orange color, type V with type II performance, USCG approved or equal, with SOLAS reflective tape, safety whistle, and strobe light attachment. QTY 10 each
		- Signaling and Distress Flares with the container and flare launcher consist of the following: four (4) each handheld red signal flares, one (1) each handheld orange smoke signal, four (4) each 12-gauge high performance red aerial signals, and one (1) each neoprene floating storage case. QTY: 1 set
		- Fire Extinguisher, Type ABC, 10 lbs. minimum capacity. The location shall be optimized for easy access. QTY: 3 each
		Ring buoy, orange color, Type IV, vinyl-coated urethane foam, with grab lines, 500mm minimum diameter: QTY: 4 each
		- EPIRB with mounting bracket; QTY 1 each
		- Boat foldable and removable Dive Ladder; QTY 1 each
		- An FRP Aft Box that can serve as storage and additional seating , vacuum infused shall be located at the aft part of the boat with a minimum size of 1.6 meters length, 600mm width, and 450 mm height.
	q. Boat Trailer	- Heavy Duty Boat Trailer: one 7,250 kgs GVWR minimum, Polyurethane Painted trailer shall be supplied with each boat. Each Trailer shall be equipped as a minimum with: • Brakes • Tie Down Rings • Wood or reinforced rubber Bunks • Reflectors • Spare tire • Commercial 12 volt tail light with matching waterproofed plug for prime

		mover • Bow Stop with bumpers • Jack Stand • Tire wrench • Tool Box with Lock mounted and installed on Boat Trailer • Trailer Winch • Coupler
r.	Boat Trailer Rating	- Boat weight for trailer transportation is defined as boat lightweight condition (boat ready for service) plus 15% fuel load and all outfit items (no armaments or ammunition). The trailer shall be provided with tie-down fitting to secure the boat on the trailer during transit
s.	Spares	- Three (3) set Electric Bilge Pump with float switch. - One (1) set Navigational Light assembly consists of Side Light and Anchor Light - Five (5) Standard Rotation Propeller - Five (5) Counter Rotation Propeller - Wiper blade: QTY is per each size installed multiplied by 3X - Trailer Light Assembly (1 each for Left side and 1 each for Right side) - Two (2) units of outboard motor ohm for the entire 40 units
t.	Preventive Maintenance Service (PMS)	-Preventive Maintenance Service (PMS) equivalent to 400 hours shall be undertaken at the expense of the winning bidder. Corrective Maintenance will be shouldered and performed for the troubleshooting of a fault/failure of the engines due to any factory defect problems, in order to restore the Product to a normally operational condition. The contractor shall provide with a 24/7 response for diagnostics and dispatch of technician/s to the port within the day. -3 units laptop with diagnostic tools (1 unit each in Luzon, Visayas and Mindanao)

5. Requirement/s if declared as Lowest/Single Calculated Bids

- Winning bidder to provide one (1) unit Prototype or sample of manufactured similar boat during post qualification with sea trial. A prototype may consist of any fully constructed boat with min length of 12 meters, has 2 diesel outboard motors, can achieve a minimum speed of 40 knots, and has a displacement of at least 6.5 tons.

- Bidder shall submit a construction schedule detailing the major activities and milestones during the entire delivery period specified in the bidding document.

- Contractor/ shipbuilder shall submit and present the vessel detailed design and list of manufacturers/suppliers during the detailed design period or within 30 days from the Notice to Proceed, for approval of the PCG.

6. Requirement/if awarded the contract:

6.1. Delivery Period and Completeness:

- **First Tranche:** First Six (6) units (3 units white and 3 units gray boats) within (90) calendar days upon issuance of Notice to Proceed (NTP) and acceptance date of the prototype.

- **Second Tranche:** Four (4) units (2 units white and 2 units gray boats) within (90) calendar days after the first tranche delivery and acceptance.

- **Third Tranche:** Ten (10) units (5 units white and 5 units gray boats) within (90) calendar days after the second tranche delivery and acceptance.

- **Fourth Tranche:** Ten (10) units white within (90) calendar days after the third tranche delivery and acceptance.

- **Fifth Tranche:** Ten (10) units white within (90) calendar days after the fourth tranche delivery and acceptance.

Distribution List:

First Tranche: First Six (6) units (3 units white and 3 units gray boats) within (90) calendar days upon issuance of Notice to Proceed (NTP) and acceptance date of the prototype.

Quantity	Districts
1 Unit (Gray)	Coast Guard District NCR-CL, *Muelle dela Industria Farola Compound, Binondo, Manila*
1 Unit (White)	
1 Unit (Gray)	Coast Guard Special Operations Force, *Muelle dela Industria Farola Compound, Binondo, Manila*
1 Unit (White)	
1 Unit (Gray)	Coast Guard District Southern Tagalog, *Sta. Clara, Batangas City*
1 Unit (White)	

Second Tranche: Four (4) units (2 units white and 2 units gray boats) within (90) calendar days after the first tranche delivery and acceptance.

Quantity	Districts
1 Unit (Gray)	Coast Guard District Bicol, *Regional Government Center, Rawis Legaspi City*
1 Unit (Gray)	Coast Guard District Palawan, Brgy. Liwanag, Port Area Puerto Princesa City, Palawan
1 Unit (White)	Coast Guard District Eastern Visayas, *Ebony Street, Port Area City, Leyte*
1 Unit (White)	Coast Guard District Western Visayas, *Zone 2, Bo. Obrero, Iloilo City*

Third Tranche: Ten (10) units (5 units white and 5 units gray boats) within (90) calendar days after the second tranche delivery and acceptance.

Quantity	Districts
1 Unit (Gray)	Coast Guard District Northeastern Luzon, *Brgy. 9 Minanga Apparri, Cagayan*
1 Unit (Gray)	Coast Guard District Northern Mindanao, *Corrales Extension Macabalan, Cagayan De Oro City*
1 Unit (Gray)	Coast Guard District Northeastern Mindanao, *2nd Flr, Danaque Leon Bldg, 1977 Borromeo Street, Brgy. Taft, Surigao City*
1 Unit (Grey)	Coast Guard District Southern Mindanao, *Makar Wharf, Brgy. Labangal, General Santos City*
1 Unit (Gray)	Coast Guard District Central Visayas, *Arellano Boulevard, Cebu City*
1 Unit (White)	Coast Guard District Northwestern Luzon, *Poro Point, San Fernando City, La Union*
1 Unit (White)	Coast Guard District Southeastern Mindanao, *KM. 11, Sasa Davao City*
1 Unit (White)	Coast Guard District Bangsamoro Autonomous Region in Muslim Mindanao, *Polloc Freeport & Ecozone, Polloc Parang, Maguindanao*
1 Unit (White)	Coast Guard District Southwestern Mindanao, *Naval Station Romulo Espaldon, Bagong Calarian Zamboanga City*
1 Unit (White)	Coast Guard Special Operations Force, *Muelle de la Industria Farola Compound Binondo, Manila*

Fourth Tranche: Ten (10) units white within (90) calendar days after the third tranche delivery and acceptance:

Quantity	Districts
2 Units (White)	Coast Guard District Bicol, *Regional Sports Athletic Center Rawis, Legazpi City*
2 Units (White)	Coast Guard District Palawan, Brgy. Liwanag, Port Area Puerto Princesa City, Palawan
2 Units (White)	Coast Guard District Western Visayas, *Zone 2 Bo. Obrero, Iloilo City*
1 Unit (White)	Coast Guard District Eastern Visayas, *Liberty Street, Port Area City, Leyte*
1 Unit (White)	Coast Guard District Northeastern Luzon, *Brgy 9, Miranda, Aparri, Cagayan*
1 Unit (White)	Coast Guard District Northern Mindanao, *Corrales Extension, Macabalan, Cagayan De Oro City*
1 Unit (White)	Coast Guard District Northeastern Mindanao, *2nd Flr. Barangay Tabon Bldg., 1377 Bonifacio Street, Brgy. 16-A, Surigao City*

Fifth Tranche: Ten (10) units white within (90) calendar days after the fourth tranche delivery and acceptance:

Quantity	Districts
2 Units (White)	Coast Guard District Central Visayas, *Arellano Boulevard, Cebu City*
2 Units (White)	Coast Guard District Southeastern Mindanao, *KM 11 Sasa, Davao City*
2 Units (White)	Coast Guard District Southwestern Mindanao, *Naval Station Romulo Espaldon, Pasonog Cabatangan, Zamboanga City*
1 Unit (White)	Coast Guard District Northwestern Luzon, *Port Point, San Fernando City, La Union*
1 Unit (White)	Coast Guard District Bangsamoro Autonomous Region in Muslim Mindanao, *Pulac Freeport & Ecozone, Pulac, Pakang, Maguindanao*
1 Unit (White)	Coast Guard District Southern Mindanao, *Makar Wharf, Brgy. Labangal, General Santos City*
1 Unit (White)	Coast Guard Special Operations Force, *Muelle Dela Industria Estela Corner Ilaya, Binondo, Manila*

6.2. Delivery Place:

Quantity	Districts
2	Coast Guard District Northwestern Luzon, *Poro Point, San Fernando City, La Union*
2	Coast Guard District NCR-CL, *Muelle dela Industria Farola Compound, Binondo, Manila*
2	Coast Guard District Northeastern Mindanao, *2nd Flr. Danaque Leon Bldg. 1377 Borromeo Street, Brgy. Taft, Surigao City*
2	Coast Guard District Northern Mindanao, *Corrales Extension, Macabalan, Cagayan De Oro City*
2	Coast Guard District Southern Mindanao, *Makar Wharf, Brgy. Labangal, General Santos City*
3	Coast Guard District Southeastern Mindanao, *KM 11 Sasa Davao City*
2	Coast Guard District Northeastern Luzon, *Brgy. 9 Minanga, Appari, Cagayan*
3	Coast Guard District Western Visayas, *Zone 2, Bo. Obrero, Iloilo City*
3	Coast Guard District Palawan, Brgy. Liwanag, Port Area Puerto Princesa City, Palawan
3	Coast Guard District Southwestern Mindanao, *Naval Station, Romulo Espaldon, Bagong Calarian, Zamboanga City*
3	Coast Guard District Central Visayas, *Arellano Boulevard, Cebu City*
2	Coast Guard District Eastern Visayas, *Ebony Street, Port Area City, Leyte*
2	Coast Guard District Southern Tagalog, *Sta. Clara, Batangas City*
3	Coast Guard District Bicol, *Regional Government Center, Rawis, Legaspi City*
2	Coast Guard District Bangsamoro Autonomous Region in Muslim Mindanao, *Polloc Freeport & Ecozone, Polloc, Parang, Maguindanao*
4	Coast Guard Special Operations Force, *Muelle dela Industria Farola Compound, Binondo, Manila*
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6.3. Testing Parameters:

- Loaded with a maximum number of person allowed by specification
- The Vessel will initially break-in for a minimum of 30 minutes to ensure that all moving parts are functioning.
- To be tested within ten (10) days to ensure that equipment cannot be affected when exposed to different weather conditions.
- Unless otherwise noted, ALL TEST shall be witnessed by Technical Inspection and Acceptance Committee (TIAC) and end user. A 14 days notification shall be formally requested by the bidder to ensure TIAC availability in witnessing test.

Boat Sea Trials:

All boats are subjected to sea trials and shall be conducted in both the half load condition and full load condition at the supplier premises before delivery.

For the first boat, the following shall be verified, determined, reported and certified.

a. Engines, Communication Radio and Navigation Radar are installed in accordance with OEM recommendations. Certification required from OEM or authorized representative conducting the installation verification and buy-off.

b. Maximum engine RPM, optimized propeller size at full load condition, and fuel consumption in both full load condition and hoisting load condition.

c. Directional Stability: Boat at WOT, wheel shall be let go. The boat cannot veer to any direction by more than 5 degrees, in a period of 1 minute.

d. Best astern RPM

e. Turning Radius.

f. Testing of fuel Consumption at W.O.T or 40 kts, in a way to verify the range of minimum 400 NM.

All boats shall be witnessed by TIAC and end-user. The following items shall be determined and reported:

Boat Scale Weighing

Each boat shall be weighed for verification of the actual boat scale weigh to determine the actual weight of boat in the lightship condition. Refer to Boat definition to determine the correct boat configuration of the boat. Using the two-point lift method, Weighing shall be conducted using a certified and calibrated scales. Weighing documentation shall include the LCG in this hoisted condition and verification of a one (1) to five (5) degree bow up attitude.

Weapon Foundation and Bulletproof Testing

The weapon foundations for each boat shall be pulled in three (3) directions (through the center of the arc of train and left and right limits of train) at 100% of the design load (1500 lbs.), applied 53" above the deck and held for a minimum of ten (10) minutes. The weapons foundation and supporting structure shall exhibit no evidence of structural failure or permanent deformation. All welds shall be visually inspected.

Conduct bulletproof testing on the sample material witnessed and certified by the TIAC and end-user prior installation.

Note: The contractor shall allow the PCG Representatives for surprise visits at the contractor's facility to conduct inspection and validation during the implementation of works under the contract.

6.4. Warranty Period/Coverage of Warranty:

- Conduct Preventive Maintenance Schedule (PMS) of inclusive 400 hr

- Ten (10) years warranty on the construction and hull material (Technical Support/After Sales)

- One (1) year warranty against factory defect on navigational equipment, Bilge system and other deck fittings.

- At least ten (10) years guarantee of engine spare parts and service availability.

(1) For the duration of warranty or ten years, the boat will be warranted against any major structural defects in material or workmanship for the hull, stringers, structure, and transom. The structural warranty will expire ten (10)years from the delivery date of each boat. This warranty will not cover the repair of damages as a result of abuse, alteration, modification or neglect. Examples of abuse, alteration, modification, or neglect include, but are not limited to: Racing or competition use, modification of original parts abnormal strain or commercial use. Lack of proper maintenance. Installation of parts or accessories that are not equivalent in design quality to the delivered boats parts. Damage as a result of accidents, collisions, contact with foreign materials, improper trailering, submersion, unreasonable use, abuse, or tampering. Growth of marine organisms on hull or deck surfaces. Acts of God. Any boat which has been overpowered or overloaded according to the maximum recommended engine horsepower specifications on the capacity plate affixed to the boat.

(2) The following factory installed parts and equipment Warranty Period is one (1) year from the date of delivery against factory defects. Items are covered by the warranty as outlined below:

- Engines
- Steering helm, cylinder, hoses and cables
- Bilge pumps, valves
- Boat electrical system
- Fuel tank(s)
- Factory installed gauges
- Deck hardware such as locks, cleats and fasteners
- Navigational equipment
- Navigational lights

The warranty does not apply to gelcoat fading, stickering damage, glass breakage, upholstery and canvas damage, seats damage, and leakage around windshields, windows, hatches, engine guard and other apertures.

Note: All materials, equipment and machinery supplied and/or mounted by the Contractor/Shipbuilder shall be new and suitable for marine use and the purpose intended. Equipment, fittings and accessories not specifically mentioned in this technical specifications but considered to be common in light of good shipbuilding practice or mandatorily required by applicable rules and regulations, shall form part of the technical specifications and provided accordingly.

6.5 Site Delivery Inspection (as applicable):

- Coast Guard District Northwestern Luzon, *Poro Point, San Fernando City, La Union*
- Coast Guard District NCR-CL, *Muelle dela Industria Farola Compound, Binondo, Manila*
- Coast Guard District Northeastern Mindanao, *2nd Flr. Danaque Leon Bldg. 1377 Borromeo Street, Brgy. Taft, Surigao City*
- Coast Guard District Northern Mindanao, *Corrales Extension, Macabalan, Cagayan De Oro City*
- Coast Guard District Southern Mindanao, *Makar Wharf, Brgy. Labangal, General Santos City*
- Coast Guard District Southeastern Mindanao, *KM 11 Sasa Davao City*
- Coast Guard District Northeastern Luzon, Brgy. 9 Minanga, Appari, Cagayan
- Coast Guard District Western Visayas, *Zone 2, Bo. Obrero, Iloilo City*
- Coast Guard District Palawan, Brgy. Liwanag, Port Area Puerto Princesa City, Palawan
- Coast Guard District Southwestern Mindanao, *Naval Station, Romulo*

Espaldon, Bagong Calarian, Zamboanga City
- Coast Guard District Central Visayas, *Arellano Boulevard, Cebu City*
- Coast Guard District Eastern Visayas, *Ebony Street, Port Area City, Leyte*
- Coast Guard District Southern Tagalog, *Sta. Clara, Batangas City*
- Coast Guard District Bicol, *Government Center Site, Rawis, Legaspi City*
- Coast Guard District Bangsamoro Autonomous Region in Muslim Mindanao, *Polloc Freeport & Ecozone, Polloc, Parang, Maguindanao*
- Coast Guard Special Operations Force, *Muelle dela Industria Farola Compound, Binondo, Manila*

6.6. Pre-Delivery Inspection:

To be checked by TIAC

6.7. Acceptance Parameters – Supplier/Manufacturer/Dealer to provide aftersales service for major components (*Warranty, availability of spares for the equipment)*

6.8. Training:

Personnel training for the use of equipment and boat maintenance for a duration of up to five (5) days with at least 40 students.

Other requirements to be submitted by the Bidder during Bid Submission and Opening.

- Bidder must have completed similar contracts and projects for the past five (5) years.

- Prospective bidder should have completed at least three (3) similar contracts and the aggregate contract amounts should be equivalent to at least 50 percentage of the ABC as required above, one (1) contract must be at least equivalent to at least twenty five percent (25%) of the ABC, with details as follows

DESCRIPTION	LARGEST OF THE THREE SLCC AMOUNT (25%)	AGGREGATE CONTRACT AMOUNT OF THREE (3) SLCC (50%)
Supply and Delivery of new FRP Rigid hull Boat or Fiberglass	PhP290,250,000.00	PhP580,500,000.00

- The total of these three similar contracts must be equivalent to at least half of the percentage of the ABC as required above.

- Note: Three (3) similar completed contracts or projects pertaining only

	Supply and Delivery of New FRP Rigid Hull Boat or Fiberglass and carbon fiber operated by the Armed Forces of the Philippines, Philippine Government Agencies, coastguard purposes and/or by private entities. At least one of the previous completed projects must have been build using the same materials specs (epoxy with fiber glass, PVC or PET foam and carbon fiber) and same construction process (vacuum infusion for all components).
	- Bidder must attach Supporting documents for the declared SLCC such as contract or Purchase Order and Certificate of Completion or Certificate of Acceptance. - The bidder shall provide a picture of the sample boat clearly showing the use of vacuum infusion method including Hull Infusion, Deck Infusion and cabin infusion. - Presentation of Brochure/Photos of items during Bid Opening. - Similar boat refers only to Supply and Delivery of 11m to 30m New FRP Rigid Hull Boat or Fiberglass. - Bidder must secure certificate indicating the Authorized Distributorship of OBM, parts and services in the Philippines and must be based in the Philippines. Certificate of Distributorship must be solely issued by the OBM Manufacturer - Certificate of Distributorship from Original Equipment Manufacturer (OEM) for the following Equipment • Radar • GPS • Marine VHF Radio • Diesel Outboard Engine - Bidder must have no delayed or pending deliveries to the PCG and other Government Agencies on Similar Project (Similar boat refers only to Supply and Delivery of 11m to 30m New FRP Rigid Hull Boat or Fiberglass.) - Bidders shall submit, as part of their bidding docs, the general arrangement drawings and rendered 3d model of the boat. - List of Service Centers (at least 1 in Luzon, 1 in the Visayas, 1 in Mindanao)

	- Bidder must secure ISO 9001:2015 applicable to Ship Building and Ship Repair, Certification issued by any member of IACS (International Association of Classification Society) and has to be active for at least 2 years prior to the bid opening. - Proof showing that the construction for Hull, Deck and control console, Heavy Duty Fiberglass Reinforcement Plastic (FRP), was in conformity with ISO 6185-3, ISO 12215-1:2000, or ISO 9001:2015. - Valid Marina License At least Class B shipbuilding and ship repair. - Valid Ship Repairs Liability Insurance Certificate. Hull, deck and cabin must be done solely by the winning bidder/ boat builder in the PHILIPPINES. Subcontracting and Importation of the fully finished boat are not allowed.

For guidance and information of all concerned.

CG COMMO TITO ALVIN G ANDAL
Chairperson, NHQ-PCG Bids and Awards Committee

Received by the bidders:

Name: _____
Date: _____