



Republic of the Philippines
NATIONAL POLICE COMMISSION
NATIONAL HEADQUARTERS, PHILIPPINE NATIONAL POLICE
BIDS AND AWARDS COMMITTEE
Technical Working Group on Transportation
Camp BGen Rafael T Crame, Quezon City



**ADDITIONAL REQUIREMENTS FOR
HIGH SPEED TACTICAL WATERCRAFT**

1. MARINA certification or its equivalent as Boat Builder;
2. Boat design approved by MARINA or its equivalent shall be submitted during post-qualification;
3. All fiberglass components shall be fabricated using Vacuum Infusion Process. Vinylester Fire Retardant Resin shall be used throughout. The Fiberglass structure shall be constructed in accordance with ISO 12215-6: 2008 Small Craft – Hull Construction and Scantlings. The following caveats shall supersede the requirements of ISO 12215-6:
 - a. Hull structure members shall not be riveted. This is a boat constructed using FRP Materials.
 - b. Wood, including plywood and balsa core materials, shall not be used.
 - c. Floating frame system shall not be used.
 - d. Stiffeners shall be attached to the hull using tabbing as shown in ISO 12215-6 Figure 11 details “a”, “b”, and “e”. The example of Figure 11 details “c” and “d” shall not be used.
 - e. Bulkheads shall be attached to the hull as shown in ISO 12215-6 Figure 12 detail “a” wherever possible.
 - f. The hull to deck joint shall be made as shown in ISO 12215-6 Figure 13 detail “a” wherever possible.
 - g. Screws shall not be used for the hull to deck joint except as temporary clams for the adhesive. The screws shall be removed after the adhesive sets. Any screw holes shall be filled, either with replacement bolts or FRP repair materials.
 - h. If the hull is molded in two halves, port and starboard, as shown in Figure 14 of ISO 12215-6, the area near centerline (+/- 15t as shown in the sketch) shall be filled in with additional bonding plies to maintain a 2 times bottom laminated thickness over the whole joint. Bonding plies shall have a minimum of 50% +/- 45 fiber weight as a fraction of the total fiber weight.
4. Seats shall be designed to convert standard seats to a bolster function. Each seat/bolster shall be provided with close cell cushion, three (3) inches thick with high UV resistant marine-grade fabric covering. All stitching shall be waterproofed. All seats shall have a seatbelt;
5. Outboard engine crash guard with rope guides. Aluminum bar filled at astern that serves as OBM guard. Marine grade painted approved for aluminum use or black hard anodized;
6. Two (2) 10 pounder fire extinguishers;
7. One (1) Mobile radio and Three (3) handheld radio in dual band (UHF/VHF);
8. Aluminum Ladder for the diver;
9. Aluminum Ladder for boarding;
10. Must be equipped with Horn/Loud Hailer with PA System;

11. Intercommunication System for each crew (5 units);
12. Must be equipped with Blinker (Blue Color);
13. All console switch, bolt and nuts including screw must be marine grade (stainless steel);
14. Pilot house electrical harness materials must also be marine grade and easy access for repair;
15. Three (3) 25 feet (minimum) pre-sliced double braided nylon mooring rope size $\frac{3}{4}$ " diameter;
16. Twelve (12) units Floatation vest;
17. Roof Mounted and Remote Controlled Search light must be:
 - 360 degrees rotation;
 - LED
 - 3,000 lumens (minimum)
 - At least 400 meters range
18. Handheld Search Light;
 - LED
 - 1,000 lumens (minimum)
 - At least 150 meters range
 - Rechargeable
19. Radar must have a range of 24 NM (minimum);
20. One (1) unit laptop computer (Brand new and latest generation) per HSTW for diagnostic test;
21. Two (2) Binoculars per HSTW;
22. Boat Markings; (see drawing attached);
23. Full tank fuel during delivery;
24. Covered Steering Wheel Console:
 - a. The boat shall have a Fiberglass Reinforced Plastic (FRP) height stand-up console with T-Top. The center console and T-Top shall include overhead storage/radio box, safety glass windshields and console accesses. The front windshield shall be framed watertight windows using safety glass with scratch resistant, water repelling coating;
 - b. Windshield shall have electric wiper and pantograph marine grade;
 - c. All installation in or on the console shall be sealed and rated weather tight per ABVC H-3, Exterior windows, Windshields, Hatches, port lights and glazing materials to prevent water damage to mounted or enclosed equipment. Accesses shall be hinged and provide necessary and convenient access to items installed in and on the console for operation, repair and replacement;
 - d. The T-Top shall be:
 - d.1 Designed to withstand loads when at sea. It shall include a system to securely hold the assembly for transportation;
 - d.2 Designed features to reduce vibration, rattle and wear. It shall provide sun shield for crew;
 - d.3 Provide mounting location for hailer, blinker, radar, lights, and other antennas; and
 - d.4 Have a 6'5' minimum headroom.

25. Training Package: Eighty-Eight (88) personnel. Training will be conducted at the Maritime Special Waterborne Operation School located in Mabini, Batangas, Eight (8) HSTWC units will be used for the training.

SUBJECT	Lecture and Demonstration (Hours)	Practical Exercises (Hours)	Total Number of Hours
Navigation	32	8	40
Seamanship and Engineering	18	22	40
Damage Control/Repair and Maintenance	2	6	8
Actual Boarding	-	24	24
TOTAL			112

Total Number of Training Hours - 120 hours
 Total Number of Training Days - 15 days

26. Trainors must come from a certified Maritime School and licensed instructor.

27. DISTRIBUTION:

MG UNITS	LOCATION	QTY
LUZON		
RMU NCR	Navotas Fishport Complex, Navotas City	1
RMU 1	Dagupan City	1
RMU 2	Aparri, Cagayan	1
RMU 3	SBMA Subic, Zambales	1
RMU 4A	Brgy Dalahican, Lucena City (403 rd MARPSTA)	1
	Batangas Port, Bantangas City (401 st MARPSTA)	1
RMU 4B	Calapan City, Oriental Mindoro	1
RMU 5	Rawis, Legaspi City	1
2 nd SOU-MG	Puerto Princesa City, Palawan	2
VISAYAS		
RMU 6	Camp Delgado, Iloilo City	1
RMU 7	Port Area, Lapu-Lapu City, Cebu City	2
RMU 8	Port Area, Tacloban City	1
MINDANAO		
RMU 10	Brgy. Puntod, Cagayan De Oro City	1
RMU 13	Parrucho St., Surigao City	2
SAF		3
NSU	Other NSU's	2
TOTAL		22

28. The bidder shall submit the following documents under the technical documents during the bid opening:

A. Certification of Supplier's authorized mobile service teams that are available on call to cater after sales services.

The authorized mobile service team must be operational/active for at least **five (5) years** after the award of the contract.

B. Notarized certification from the bidder with proof that the “**type of the product**” being offered has been in the Philippine market for at least **ten (10) years prior to the submission and receipt of bids.**

C. Notarized certification of Spare Parts Availability in the Philippines for the next **five (5) years** after end-of-production issued by the manufacturer or authorized dealer.

D. Product Brochure containing the description including pictures of the item to be offered during the Opening and Evaluation of Bid.

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BOAT MARKINGS:

