35 Knots, 50 M. Fast Patrol Vessel (FPV)



This 35 Knots, 50 meters in length, Fast Patrol Vessel, is in-house designed and built by Goa Shipyard Ltd. This vessel is primarily designed for patrolling, anti-smuggling and anti-terrorist operations. It can also support the Navy/Coast Guard during wartime/conflict situation as a coastal convoy escort and as a communication link.

The hull of the vessel is of steel and strong enough to withstand continuous heavy sea conditions. Fully air conditioned accommodation is provided for 35 men on-board. This vessel is powered by three nos. 2720 KW diesel engines driving three independent waterjets and is fitted with 30mm Gun at forward position, machine guns on port & starboard and state-of-the-art Navigation and Communication equipment. The vessel is optimized for long periods at sea and is stable in all conditions without ballasting and also has the ability to survive with two compartments damaged.

A total of eleven Fast Patrol Vessels have been designed, built and delivered to the Indian Coast Guard by GSL. These vessels have been proven during challenging situations and national disasters like tsunamis and are presently rendering yeoman service. Also, two Fast Patrol Vessels have been exported to Mauritius by GSL.

Life cycle support, Upgrades and Logistic support can be provided by GSL for this product.

New Generation Fast Attack Crafts of this design with higher speed upto 37 knots is also available for production.

Salient Features of this Vessel

- **Completely in-house designed.**
- **These class of vessels are proven in service.**
- **Excellent stability & performance proved in harsh sea conditions.**
- **Multi-role capability, cost effective product, comparable to any other similar internationally available product.**
- **Ready availability of proven platform design, which can be adapted to specific customer needs.**

GOA SHIPYARD LIMITED
Ship Builders, Ship Repairers & Engineers
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35 Knots, 50 M. Fast Patrol Vessel (FPV)



General

- **Functions** : Fisheries protection &monitoring of foreign chartered trawlers in EEZ, coastal patrolling, anti-smuggling, Search & Rescue during hostilities and wartime, provide communication link and escort convoys.
- **Hull Material** : Steel, ABS grade B
- **Superstructure** : Aluminium
- **Classification** : Dual Classification ABS & IRS.
  ✠A1 HSC (Special Govt. Service)
  ✠AMS

Main Particulars

- **Length Overall** : 50.44 M (Incl. Water Jet)
- **Breadth (mid.)** : 7.50 M
- **Depth (mid.)** : 4.35 M
- **Draught (Max.)** : 2.10 M
- **Displacement** : 270 Tons

Capacities

- **Accommodation** : 7 Officers & 28 Sailors
- **Fuel Oil** : 28 Tons
- **Fresh Water** : 10 Tons

Performance

- **Speed** : 35 Knots
- **Range** : 1500 NM at 12-14 Knots
- **Endurance** : 7 days

Propulsion System

- **Main Engine** : 3 x MTU
- **Total Power** : 3 x 2720 KW
- **Gear Box** : 3 x Reduction Gear Box
- **Propulsion** : Water jet system KAMEWA Type-71 SII
- **Remote Control System** : MCS - 5, Type 2, RCS - 5WJ of MTU

Electrical Equipment

- **Networks** : 415 V, 3 Phase, 50 Hz / 230 V AC / 24 V DC
- **Generators** : 2 x 120 KW, 415 V, 3 Phase, 50 Hz
  1 x 21 KW, 415 V, 3 Phase, 50 Hz

Deck Machinery

- **Anchor Equipment** : 2 x 203 Kgs.
  HHP Anchor, 17.5 mm dia.
  U2 chain of 247.5 mtrs.
- **Anchor Capstan** : 2 nos. Twin Speed
- **Mooring Capstan** : 1.5 T@ 12 mtrs /minute.
- **Crane** : 1 no. Articulated electro-hydraulic boat handling crane.
- **Rescue Boat** : 4.7 mtrs Rigid Inflatable Boat with 25 HP OBM & 2 x 3.8 mtr Gemini boat with 25 HP OBM

Auxiliary Systems

- Bilge Water Separator meeting IMO regulations of MARPOL
- Vacuum Toilet & Sewage System meeting IMO regulations
- Fresh Water Generating System, RO Type (5 TPD)

Nautical, Surveillance and Communication equipment

- Radar with ARPA
- Magnetic Compass
- Gyro Compass
- Auto Pilot
- DGPS
- Electronic Chart Display & Information System
- Echo sounder
- EM Log
- Communication according to GMDSS A3
- Internal Communication System

Armament

Provision for fitment of:

- 1 x 30 mm Power Operated Gun
- 2 x 12.7mm LMG

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