New Version 105M. Advanced Offshore Patrol Vessel (AOPV)



The Samarth class of New Version 105M. Advanced Offshore Patrol Vessel (AOPV) is the latest from GSL's stable of Offshore Patrol Vessel designs in the service of Indian Navy and Indian Coast Guard. GSL has built and delivered 11 OPVs and currently in service with Indian Coast Guard. This Vessel is designed for patrolling and policing maritime zones, search and rescue, pollution control ,external fire fighting and embarkation & operation of ALH helicopter for long range all time search and surveillance. Powered by two diesel engines with CPP, the vessel delivers a maximum speed of 25 knots and has a range of 6500 NM. The vessel can be provided with other customer required propulsion options. The Coast Guard version of the vessel is armed with one 30mm Gun and two 12.7mm SRCGs with fire control system. However the space and structure is suitable for fitment of 76mm SRGMs. The Vessel has a rail-less Helo-traversing system for Helicopter handling. This provides a clear deck for Helo-operations without the attendant rail fittings. A state-of-the-art navigation & communication equipment with Integrated Bridge System is provided on board. Modular Mast options are available for higher weapon fit.

The design of this Vessel incorporates excellent stability & improvements in terms of functionality, maintainability, better ergonomics & habitability. The basic platform is fuel efficient and cost effective and can be easily adapted to any special sea evolution requirements of the Customer.

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

Salient Features of this Vessel

- Completely In-house designed.
- Excellent stability and performance proved in harsh sea conditions.
- Multi-role capability, cost effective product, comparable to any other similar internationally available product.
- Efficient Integration of the Propulsion System with CPP to achieve flexibility of wide variation of speed requirements over operating profile.
- Improved Fuel Efficiency & higher range.
- Ready availability of proven platform design, which can be adapted to specific customer needs.

GOA SHIPYARD LIMITED
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General

- **Functions** : Patrolling & policing, SAR, Pollution control etc. Protect Offshore assets and Island territories.
- **Hull Material** : Steel to ABS Gr A/B/D
- **Superstructure** : Mild Steel to ABS Gr B.
- **Classification** : Dual Classification ABS & IRS. + A1 HSC (Special Government Service) Ⓔ + AMS NIBS + ACC by ABS and equivalent of IRS

Main Particulars

- **Length** : 105 M (approx)
- **Breadth** : 13.60 M (approx)
- **Draught mean** : 3.65 M (approx)
- **Displacement** : 2400 Tons (approx)

Capacities

- **Accommodation** :14 Officers & 98 Sailors
- **Fuel Oil** : 300 Tons
- **Fresh Water** : 100 Tons
- **AVCAT** : 12 Tons

Performance

- **Speed** : Not less than 25 Knots
- **Endurance** : Not less than 6000 miles

Aviation

- Operation & embarkation of 1 no twin engine helo of AUW 6800 kgs.

Propulsion System

- **Main Engine** : 2 x Diesel Engines (2 x 9000 KW)
- **Gear Box** : 2 x Marine Reduction Gearbox
- **Propulsion** : 2 x Controllable Pitch Propeller

External Fire-Fighting

- 2 x 1000 m3/hr External Fi-Fi pumps driven by Main propulsion Gear Box.

Electrical Equipment

- **Networks** : 415 V, 3 ph, 50 Hz, 230 V AC, 24 V DC
- **Generators** : 4 x 450 KW, 415 V, 3 Ph, 50 Hz.
- **Emergency Generator** : 1 x 80 KW, 415 V, 3 Ph, 50 Hz.

Deck Machinery

- **Anchor Equipment** : 2 nos Anchors of 1440 Kg HHP/ equivalent SHHP
  2 nos electric driven Anchor Capstan. Dual speed electric motor vertical type Mooring Capstan
- **Crane** : 2 nos Articulated Cranes of 1 Ton at 9 mtrs. & 2 Ton at 4 mtrs. class approved (SOLAS)
- **Davits** : 2 nos Radial Davits, 2 nos 40 Knts. RIBs with Inboard Engines, 2 nos Quick Response RIBS, 5 men with overhead Davit.
- **Rescue Boat** : 1 no Inflatable Gemini boat 8 men, 40 HP

Auxiliary Systems

- Oily bilge water Separator
- Vacuum Toilet System

Armament

- 1 no 30 mm Gun with FCS
- 2 nos 12.7 mm Gun with FCS

Nautical, Surveillance and Communication Equipment

- Integrated Navigation Bridge System
- Gyro
- Auto Pilot
- EM Log
- Echo sounder
- 2 nos DGPS & 1 no GLONASS
- Magnetic Compass
- GPS compass
- 25 KW X Band Radar for Navigation with ARPA
- 30 KW S Band Radar for Surveillance with ARPA
- Fibre Optic / Ring Laser Gyro Compass
- Electronic Chart Display
- Military Communication Radio

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