90 M. Offshore Patrol Vessel (OPV)



The Samar class Offshore Patrol Vessel is 90m in length, an in-house designed product of GSL, capable of patrolling and policing operations, search and rescue operations, embarkation & operation of ALH helicopter for long range all time search, rescue & surveillance, pollution response against oil spillage and external fire-fighting.

Fitted with twin diesel engines, each driving a controllable pitch propeller, through a reduction gear box, the vessel delivers a maximum speed of 26 Knots. The endurance of the vessel is 4500 NM. An Integrated Platform Management System and an Integrated Bridge System are provided on board. The vessel is fitted with a 30mm Gun and 12.7mm SRCGs with Fire Control System. Option is available for fitment of 76 mm SRGM.

The design of this vessel incorporates excellent stability & improvements in terms of functionality, maintainability, better ergonomics & habitability. This product is fuel efficient and cost effective and can be easily adapted to the additional requirements of the customers, if any.

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 Controllable Pitch Propellers to achieve flexibility of wide variation of speed requirements over operating profile.**
- **Ready availability of proven platform design, which can be adapted to specific customer needs.**

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90 M. Offshore Patrol Vessel (OPV)



General

- **Functions** : Patrolling and policing maritime zones search and rescue operations of ALH for long range all- time SAR and surveillance, pollution control and external fire fighting.
- **Hull Material** : Steel
- **Classification** : Dual Classification ABS & IRS.
  ✠ A1 HSC (Special Govt. Service)
  NIBS ACC AMS Fire Fighting CLASS 1

Main Particulars

- **Length Overall** : 93.89 M
- **Breadth** : 12.60 M
- **Depth MLD** : 6.00 M
- **Draught mean** : 3.60 M
- **Draught (Propeller)**: 4.50 M
- **Displacement** : abt. 1840 Tons

Capacities

- **Accommodation** : 16 Officers & 94 Sailors
- **Fuel Oil** : 200 Tons
- **Fresh Water** : 90 Tons
- **AVCAT** : 10 Tons

Performance

- **Speed** : 26 Knots
- **Range** : 4500 NM at 12-14 knots
- **Endurance** : 30 days

Propulsion System

- **Main Engine** : 2 x 9000 KW
- **Gear Box** : Reduction Gear Box
- **Propulsion** : 2 x Controllable Pitch Propeller
- **Bow Thruster** : 1 x 400 KW

External Fire-Fighting

- 2 x 1200 m^3/hr at 140 MWC

Electrical Equipment

- **Networks** : 415 V, 3 Ph, 50 Hz / 230 V AC / 24 V DC
- **Generators** : 4 x 450 KW, 415 V, 3 Phase, 50 Hz.

Deck Machinery

- **Anchor Equipment** : 2 x 1195 Kgs. H.H.P anchor with chain as per class requirement
- **Crane** : 2 nos. Electro-Hydraulic crane for Pollution Control (3 Ton each)
- **Capstan** : 2 nos. Anchor Capstan
  1 no. Mooring Capstan
- **Boats** : 2 nos. 6.5 m RIB
  2 nos. 4.7 m Gemini Boats + 1 no. 3.8 m Gemini
- **Aviation** : Landing deck for up to 10 T AUW Helo.
  Hangar for Advanced Light Helicopter of 5.5 T AUW.
  Helo Traversing Gear
  Helo Landing Grid

Armament

Provision for fitment of:

- 1 x 30 mm, CRN-91 gun with FCS.
- Option is also available with 76 mm gun

Auxiliary Systems

- Oily Bilge Water Separator meeting IMO regulations
- Sewage & Vacuum Toilet System meeting MARPOL requirements.
- F.W. Generating System, RO type (1 x 20 TPD) + WHR type (2 x 10 TPD)
- Active Fin Stabilizer

Integrated Platform Management System

- Machinery Control
- Integrated Bridge
- Power Management
- Damage Control

Nautical, Surveillance and Communication Equipment

The Integrated Bridge System consists of

- X, S Band Radar with ARPA / RRB interface
- Magnetic Compass
- Dual Gyro Compass
- Auto Pilot
- Echosounder
- EM Log
- DGPS / GLONASS
- Military Communication Radio
- Electronic Chart Display & Information System
- Communication according to GMDSS-A3

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