Naval Offshore Patrol Vessel (NOPV)



The Saryu class Naval Offshore Patrol Vessel is based on the in-house design developed by GSL through its R&D. Four of these vessels have been constructed for the Indian Navy by GSL. These vessels have successfully proved the specified performance and seaworthiness during operations in service with the Indian Navy. GSL has constructed 02 nos. of these vessels for Sri Lanka Navy.

This 105M. NOPV is capable of fleet support operations, coastal and offshore patrolling, ocean surveillance and monitoring of SLOCs, defence of offshore oil installations, escorting high value ships and embarkation & operation of ALH helicopter. Powered by twin diesel engines with CPP, the vessel delivers a speed of 25 knots. The vessel has an endurance of 6000NM. An advanced Automation System is provided for Platform management. The vessel is fitted with state-of-the art Navigation & Communication equipment and Electronic Warfare equipment. The weaponry fit includes 76mm SRGM and 30mm guns with fire control system and Chaff launchers.

As compared to the designs of similar NOPVs in service with Navies/Coast Guards in other countries, the design of this platform incorporates excellent stability & improvements in terms of functionality, maintainability, better ergonomics & habitability. This product is cost effective and can be easily adapted to the additional requirements of the customers, if any.

Due to its excellent stability and performance, 'INS SUMITRA' from this series of NOPVs, was used as the Presidential Yacht by Indian Navy for International Fleet Review-2016.

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

Salient Features of this Vessel

- **Completely in-house designed vessels proven in service since Jan 2013**
- **Cost effective Warship design to handle multiple role requirements.**
- **Excellent stability & performance proved in harsh sea conditions, complies to stringent Naval standards etc.**
- **Specially shaped hull developed to provide Stealth features for combat capability.**
- **Ready availability of proven platform design, which can be adapted to specific customer needs.**
- **Capable of taking higher weapon package, such as BrahMos or other missiles.**
- **High degree of Automation for Platform Management for minimum crew.**

GOA SHIPYARD LIMITED

Ship Builders, Ship Repairers & Engineers

www.goashipyard.in

For further information, please contact:

Head of the Department

Business Development

Phone: +91-832-2501728

Naval Offshore Patrol Vessel (NOPV)



General

- **Functions** : Surveillance and accomplishing surface warfare operations in order to prevent infiltration and transgression of maritime sovereignty.
- **Hull Material** : Steel.
- **Classification** : Dual Classification ABS & IRS.
  ✠A1 E HSC NAVALCRAFT
  + AMS of ABS and equivalent of IRS

Main Particulars

- **Length** : 105.34 M
- **Breadth** : 12.90 M
- **Depth MLD** : 8.50 M
- **Draught mean** : 3.60 M
- **Draught (Propeller)** : 4.90 M
- **Displacement** : abt. 2200 Tons

Capacities

- **Accommodation** : 16 Officers & 102 Sailors
- **Fuel Oil** : 270 Tons
- **Fresh Water** : 60 Tons
- **AVCAT** : 30 Tons
- **FORU** : 40 Tons

Performance

- **Speed** : 25 Knots
- **Range** : 6000 NM at 16 knots
- **Endurance** : Normal 20 days, Extended-50 days

Propulsion System

- **Main Engine** : 2 x 8100 KW
- **Gear Box** : Reduction Gear Box
- **Propulsion** : 2 x Controllable Pitch Propeller
- Remote Control System for Propulsion Machinery

Electrical Equipment

- **Networks** : 415V, 3Ph, 50Hz / 230 VAC / 24 VDC
- **Generators** : 2 x 500 KW, 2 x 350 KW, 415V, 3 Ph, 50Hz.
- **Emergency Gen** : 1 x 100 KVA
- **Frequency** : 1 x 85 KVA, 440 V, 3 Ph, 60 Hz
- **Convertors** : 1 x 10 KVA,115 V, 1Ph, 400 Hz.

Deck Machinery

- **Anchor Equipment** : 2 x 1440 Kgs H.H.P. anchor with chain as per class requirement
- **Crane** : 2 nos Electro-hydraulic Cranes for handling 6.5 mtrs. RIB & Torpedo recovery
- **Capstan** : 2 nos. Anchor Capstans
  1 no. Mooring Capstan

Aviation

- Landing deck for upto 10T AUW Helo
- Hangar for Advanced Light Helicopter of 5.5T AUW
- Helo traversing gear
- Helo landing grid

Armament

Provision for fitment of:

- 1 x 76 mm SRGM with FCS
- 2 x 30 mm CIWS with FCS
- 4 x Chaff Launchers

Auxiliary Systems

- Oily Bilge Water Separator meeting IMO requirements
- Sewage & Vacuum Toilet System meeting IMO / MARPOL requirements
- F.W. Generating system, RO type (2 x 30 TPD)
- Active Fin Stabilizer

Nautical, Surveillance and Communication Equipment

- Radar with ARPA
- Ring Laser Gyro
- DGPS
- Magnetic Compass
- Auto Pilot
- Electronic Chart Display & Information System
- Echosounder
- Electro Magnetic Log
- Communication according to GMDSS
- Electronic Warfare (Comint/Elint)

GOA SHIPYARD LIMITED
Ship Builders, Ship Repairers & Engineers
(A Govt. of India Undertaking-Ministry of Defence)
Vasco-da-Gama, GOA - 403 802, INDIA
email: epsp@goashipyard.com url: www.goashipyard.in