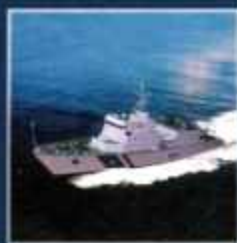




the Feel of Expertise . . .



. . . the Power of Excellence



**GOA SHIPYARD LIMITED**

Ship Builders, Ship Repairers & Engineers

[www.goashipyard.co.in](http://www.goashipyard.co.in)



**Goa Shipyard Limited (GSL)**, established in 1957 is a leading ISO 9001-2000 certified shipyard on the West Coast of India functioning under the administrative control of Ministry of Defence, Govt. of India. GSL is strategically located on the bank of the river Zuari in Goa, a major international tourist destination, well connected by an international airport and major port enroute all important shipping lines.

Beginning as a small barge building yard, GSL has grown into one of the most sophisticated ship builders in the south asian region. For over five decades, GSL has designed, built and commissioned a wide range of sophisticated vessels for varied applications in the defence and commercial sectors with special expertise in building sophisticated patrol vessels of steel and aluminum hull structure.

#### **GSL's inherent strengths are :**

- An ISO 9001-2000 Certified Company
- In-house design capability
- World class CAD / CAM facility with Tribon platform
- ERP enabled management integrated with design and planning application which enables for effective database management, project monitoring and control
- Modern steel preparation shop with CNC plate cutting machines, automatic shot blasting equipment & CNC pipe bending machine.
- Modern Electronic Workshop
- Ship Repair and General Engineering Services
- Setting up of Simulated Training facilities.
- A workforce of over 1400 skilled personnel and over 140 qualified Engineers and Naval Architects.

#### **Services Offered :**

GSL offers a wide spectrum of services to its valued customers which include:

- Designing and building variety of vessels and simulated training facility
- Repair and modernization of vessels
- Supply of Stern Gear.

**Modernisation activities at GSL** Goa Shipyard has embarked upon a major modernization programme aimed at augmenting and modernizing its infrastructure and facilities to be capable of constructing military as well as commercial ships of international standards. GSL is also in the process of introduction of state-of-art production multipliers and methods in all areas of shipbuilding. The new facilities will include modern steel and aluminum fabrication facilities, modern construction and repairs berths, shiplift equipment with associated ship transfer system, outfitting complex and dedicated GRP ship construction facilities. With these modernized facility in place, GSL will be able to undertake construction of Mine counter measure vessels.



Offshore Patrol Vessel ( OPV 105 )



Naval Offshore Patrol Vessel ( NOPV )



Offshore Patrol Vessel ( OPV 90 )



## Offshore Patrol Vessels

Goa Shipyard Ltd. has developed in - house design for Offshore Patrol Vessels for operations of Coast Guard & Navy.

The Offshore Patrol Vessels for Coast Guard are suitable for patrolling & policing of maritime zones, search & rescue operations, embarkation and operation of ALH helicopter for long range all time search, rescue and surveillance, pollution control and fire fighting. There are product variants with specific features to cater to the user requirements.

Naval Variants of Offshore Patrol Vessel category are capable of fleet support operations, coastal and offshore patrolling, ocean surveillance and monitoring of SLOCs, defence of offshore oil installations, escort duties and embarkation and operation of Advanced Light Helicopter.

The product variants include :

**a) OPV 105** This Offshore Patrol Vessel, 105 mts in length, powered by two diesel engines, each driving a controllable pitch propeller through a reduction gearbox can deliver a max. speed of 24 knots. The range of the vessel is 6500 NM. The vessel is fitted with 30 mm. gun with fire control system and helicopter staging facility. The vessel has state-of-the-art Navigation and Communication equipment automated by an Integrated Bridge System.

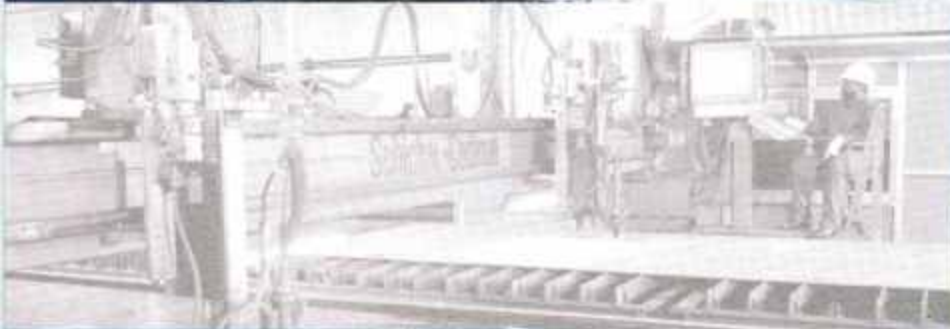
**b) OPV 90** This Offshore Patrol Vessel, 90 mts in length, is powered by twin diesel engines, each driving a controllable pitch propeller through a reduction box. This vessel can deliver a maximum speed of 26 knots with endurance of 4500 nautical miles. The vessel is equipped with an Integrated Platform Management System and Integrated Bridge System. The vessel is fitted with a 30 mm Gun with fire control system.



▲ Missile Craft



● Hydrographic Survey Vessel



▲ 35 Knots Fast Patrol Vessel ( XFPV )



**c) Naval Offshore Patrol Vessel** This Naval Offshore Patrol Vessel 105 mtrs in length and powered by twin diesel engines, each driving a controllable pitch propeller through a reduction gearbox, can deliver a max speed of 25 knots. The vessel has an endurance of 6000 nautical miles. An advanced Remote Control System is provided to control and monitor the propulsion machinery. The vessel is fitted with state of the art Navigation & Communication equipment and Electronic Warfare equipment. The weaponry package includes one 76 mm SRGM and two 30 mm guns with fire control system and four chaff launchers- 2 SR and 2 LR/MR.

### 35 Knots Fast Patrol Vessel ( XFPV )

This 35 knots Fast Patrol Vessel, 50 mtrs in length is another class of vessel designed and built by Goa Shipyard Limited for deep seas as well as shallow water operations. This Vessel with a displacement of 270T is primarily designed for patrolling, anti smuggling & anti terrorist operations. It can also support the Navy during wartime as a coastal convoy escort and a communication link. The vessel has an endurance of 1500 NM with fully air conditioned accommodation for 35 men on board. This vessel is fitted with 30 mm gun in the forward and machine guns on port & starboard. Options are also available to fit naval stabilised gun systems of various makes as well as night vision devices. For hot pursuit and capture operations requiring high speed maneuverability, the vessel is powered by three 2720 KW MTU diesel engines driving three independent Kamewa waterjets. The hull of the vessel is of steel and strong enough to withstand continued heavy sea conditions. The vessel is optimised for long period at sea and stable in all conditions without ballasting and also has the ability to survive even with two compartments damaged. The vessel is also provided with state of the art Navigation and Communication equipment. This class of vessel has proved to be exceedingly seaworthy with a very stable platform and economical needing minimum maintenance.



▲ Sail Training Ship



▲ Bollard Pull Tug



▲ Survival at Sea Training facility



▲ Damage Control Simulator

**Sail Training Ship** GSL has built the first ever Sail Training Ship meant for training cadets. This ship "INS Tarangini" has successfully completed the circumnavigation voyage around the world on a mission of bridging friendship across the oceans. The ship has eighteen sails with a sail area of about 1000 sq m with very high endurance and can be deployed at sea continuously for a period of twenty days. Sail Training Ships are increasingly being used as basic seamanship and character building platforms by Navies the world over.

**Simulator and Training facility** GSL has also diversified its business in the field of building Simulator and Training facility. The Damage Control Simulator (DCS) built by GSL is the only one of its kind in Asia and is one of the few existing world wide. This product has been designed and built by GSL for the Indian Navy. The DCS is basically a training system that simulates real life damage scenario's for training

of ships crew for and damage control & repairs in real life operational conditions. The simulator is a three deck structure of size 14.6 x 6.7 x 7.87 mtrs similar to a modern ship with 19 compartments. GSL has also designed and built a Survival at Sea Training Facility (SSTF) for Oil and Natural gas Corporation of India for training their personnel in meeting real-time emergencies on oil platforms.

**FRP Boats for Coastal Police** The boats are of 5 Ton and 12 Ton displacement with speed upto 35 Knots. The boats will have cabin with bulletproof arrangement to withstand small arms and machine gun fire. The boats built at GSL will be in service in the west coast of India. This beginning will be the stepping stone for GSL towards building international quality FRP/GRP vessels including MCMVs for Indian Navy, one of largest GRP marine craft to be built in India.



▲ Bird's Eye View of Goa Shipyard Limited



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ISO 9001-2000  
Certified Shipyard