115 M. Pollution Control Vessel (PCV)



The primary role of the Pollution Control Vessel is to carry out dedicated oil spill response operations in the vast EEZ of our country and also around the various neighbouring Islands. The vessel is 115 mtrs long, 16.5 mtrs wide and a tonnage of 4100 Tonnes with a maximum speed of 22 knots. The pollution response capabilities of the vessel includes an advanced radar with oil slick detection software, Oil Recovery Operation System (ORO System) with two flush type integral side collector sweeping arms, Oil Spill Dispersant (OSD) Spray System, Ocean Booms, Near Shore Booms, Skimmers, RO stowage portable barges among many other state of the art features. In addition the vessel is also equipped with medium caliber Guns with Fire Control Systems and 02 main Radars.

Fitted with twin diesel engines, each driving a controllable pitch propeller and shaft generator of 650KW, through a reduction gear box, the vessel delivers a maximum speed of 22 Knots. The endurance of the vehicle is 6000 NM. An Integrated Platform Management System are provided on board.

The design of this vessel incorporates excellent stability (DP-2 Dynamic Positioning System) & improvements in terms of functionality, maintainability, better ergonomics & habitability. This product is fuel efficient and cost effective and can be adapted to the additional requirements of the customers , if any.

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

Salient Features of this Vessel

- **Completely in-house designed.**
- **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.**
- **Efficient integration of the Propulsion System with Controllable Pitch Propellor to achieve flexibility of wide variation of speed requirements over operating profile.**

GOA SHIPYARD LIMITED
Ship Builders, Ship Repairers & Engineers
www.goashipyard.in

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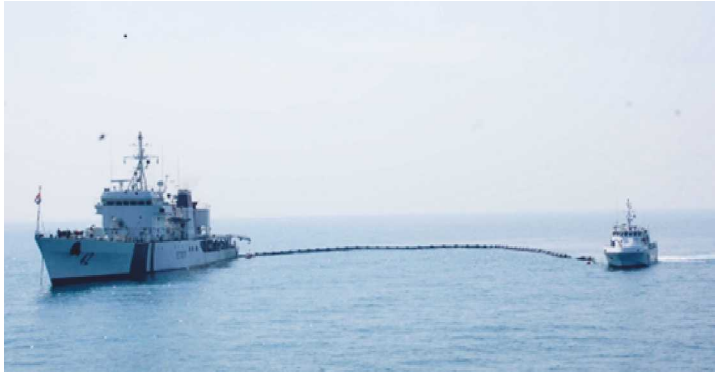
115 M. Pollution Control Vessel (PCV)



General

- **Functions** : Containing, Recovering and dispersion of oil spilled and transporting recovered oil for further disposal
- **Hull Material** : Steel
- **Classification** : Dual Classification ABS & IRS
- **Dynamic Positioning** : DP-2

Main Particulars

- **Length Overall** : 114.5 m
- **Breadth** : 16.5 m
- **Depth MLD** : 7.2 m
- **Draught mean** : 4.5 m
- **Draught(propeller)** : 4.5 m
- **Displacement** : 4585 Tons

Capacities

- **Accommodation** : 14 Officers and 115 Sailors
- **Fuel Oil** : 420 Tons
- **Fresh Water** : 120 Tons
- **AVCAT** : 12 Tons

Performance

- **Speed** : 22 Knots
- **Range** : 6000 NM at 12-14 Knots
- **Endurance** : 30 Days

Propulsion System

- **Main Engine** : 2 x 7200 KW
- **Gear Box** : Reduction Gear Box
- **Propulsion** : 2 x Controllable Pitch Propeller
- **Bow Thruster** : 1 x 1200 KW
- **Stern Thruster** : 1 x 650 KW

Electrical Equipment

- **Networks** : 415V, 3Ph, 50Hz / 230V AC/ 24V DC
- **Main Generators** : 4 x 750KW, 415V, 3Ph, 50Hz
- **Harbour Generator** : 1 x 450KW, 415V, 3Ph, 50Hz
- **Shaft Generators** : 2 x 650KW, 415V, 3Ph, 50Hz

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 Pollution Control
- **Capstan** : 2 nos. Anchor Capstans
  1 no. Mooring Capstan
- **Boats** : 2 nos Pollution recovery boats
  2 nos main RIBs (30 Knots)
  2 nos Inflatable boats
- **Aviation** : Landing deck for upto 11.5 T AUW Helo
  Hanger for Advanced Light Helicopter of 6.5 T AUW
  Rail less Helo Travesing System
  Helo Landing Grid

Armament

Provision of fitment of:

- 1 x 30 mm Gun with FCS
- 1 x 12.7 mm Gun with FCS

Auxiliary Systems

- Oil Recovery Operation System
- Anti Roll Tank System
- Oily Bilge Water Separator meeting IMO regulations
- Sewage & Vacuum Toilet System meeting MARPOL regulations
- F.W. Generating System, RO type (1 x 20 TPD)

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
- Magnetic Compass
- Dual Gyro Compass
- Auto Pilot
- Eco Sounder
- EM Log
- DGPS / GLONASS
- Electronic Chart Display & Information System
- Communication according to GMDSS-A3

GOA SHIPYARD LIMITED
Ship Builders, Ship Repairers & Engineers
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