

## SHIP DESIGN SERVICES: NEW DESIGN



### 20 M PILOT BOAT

A Pilot Boat is a type of boat used for transporting maritime pilots between land and the inbound or outbound ships that they are Piloting. Pilot boats are designed and built to withstand heavy seas and bumping against larger vessels. They are high powered and durable as they are purpose designed and built.

New Design concepts that we develop helps Shipyards and other interested parties quickly respond to their enquiries and thereby increases the winnability aspects. To delight our Customer for their continuously evolving design requirement, Conceptia has designed a 20 m Pilot Boat with compelling features assimilating the critical requirements based on the survey conducted among the end users of Pilot Boat (s) in Indian ports.

### Hull & Arrangement

She is hydrodynamically designed with chine construction which ensures a finer entry in the forward sections. The design incorporates efficient spray rails to keep the deck dry and to damp motions in heavy seas combined with high speeds. The chine also affords a more sea-friendly shape in the forward slamming area. A chine shape has been provided at the aft end too to give stability in following seas. The chine shape also helps in economical operation at cruising speed. The chine hull we believe will provide excellent manoeuvrability both at slow speed for harbour operation and at service speeds for transfer of pilots. Steel is the material chosen for this design for ease of maintenance in remote ports where Aluminium fabrication facilities are not available.

The design has been done in concurrence with the Lloyd's class regulations for high speed craft thereby ensuring structural, equipment and other safety aspects. She has been designed to be assigned with the notation: Lloyd's Register ⌘ 100 A1, SSC, Pilot, Mono, HSC G3, carefully selected for the intended pilot boat's function.



With the high endurance range of 240 Nautical Miles, she has been equipped with 10 first in class pilot seats along with a restroom in the air conditioned Pilot cabin. Her engine room has been ergonomically arranged for ease of operation and maintenance.

Her accommodation area layout has been made keeping in mind the live on-board requirement of Pilot Boats at Indian ports. She has been designed to accommodate 4 crew sleeping space along with a living space provided with compact galley module with a sofa and teapoy.

### Power and Manoeuvring Performance

With a top speed of 20 knots, powered by twin DOEN DJ 260 Waterjets driven by twin 1342 kW *Caterpillar C32* engines, she is a highly manoeuvrable and efficiently powered boat. The Waterjets equipped with high thrust reverse buckets operated by heavy-duty mechanism are suitable for unrestricted crash stop manoeuvre. The balanced nozzle fitted in a steering bowl provides for precise and easy steering at all speeds. Waterjets and its manoeuvrability characteristics at its peak, she can efficiently manoeuvre even in highly congested ports. She has been designed with twin Auxiliary Generators of 20 kVA that proves her redundant during the operational regimes.



Fuel Tank Capacities (9000 litres) & Fresh Water (370 litres) are commensurate with the range and endurance profile of the vessel. LSA, Fire Fighting and Navigational equipment shall be made compliant to any flag requirements or Statutory requirements.

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