The vessel is designed as double hull, single screw propulsion, general cargo vessel for unrestricted navigation, being capable to carry general cargoes, bulk cargoes, steel coil and container. There is one (1) box-shaped cargo hold which eases the loading / unloading operations. There is one (1) gantry crane which serves pontoon type hatch covers. Cargo hold tank top is reinforced against the loads up to 12 t/m². There is no structural element facing in the hold and this design brings the advantage of reduction in time for cleaning. The operational costs are minimized by determination of special gross tonnage, engine power and crew capacity. The length of the ship is intentionally determined while optimized steel weight provides low level investment cost. During the design process the state-of-the-art technology has been used with computer aided naval architecture tools and advanced engineering applications have been carried out to create an economical, safe and comfortable unit.

**5000 DWT**

**GENERAL CARGO SHIP**

**BENEFITS**
- Low fuel consumption
- Compliance with environmental requirements
- Low operating cost
- Low initial investment cost
- Ability to carry various types of cargo.
5000 DWT GENERAL CARGO SHIP

SPECS

Capacities
- Cargo: 5,900 m³
- Water Ballast: 1,930 m³
- HFO: 110 m³
- MDO: 25 m³
- Fresh Water: 33 m³

Speed Consumption/Range
- Design speed: 11.0 knots
- Consumption: 5.0 t/day
- Cruising range: 4,750 nm

Machinery

Main Components
- Main Engine: 1 x 1,200 kW
- Propeller: 1 x 3,600 mm FPP
- Diesel Generator: 2 x 225 kW
- Em’cy Diesel Generator: 1 x 99 kW

Complement
The accommodation area is to be arranged for 12 crews. Ten (10) single berth cabins and two (2) suits with separate bedroom are to provided with private facilities.

Main Dimensions
- LOA: 83.12 m
- LBP: 78.05 m
- B (molded): 15.80 m
- D (molded): 7.65 m
- Draught (design): 6.00 m
- Draught (scantling): 6.60 m

Tonnage
- DWT (at design): 4,670 t
- DWT (at scantling): 5,000 t
- GRT (app): 2,930
- NT (app): 1,625

SCOPE OF SERVICES
- Conceptual Design
- Contract Design
- Production Engineering
- Post Production Services
- DeltaLoad Ship Loading Software
- Advanced Engineering Analyses
- Project & Document Management
- Supervision Services
- Procurement Consultancy
- Feasibility Analyses

REFERENCES
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