

### About Us

Zebec Marine Consultants and Services, an ISO 9001:2008 certified company offers design, engineering services and consulting solutions to the marine and offshore industry.

The scope of our services spans new building project management, vessel basic and detailed design, all naval architectural services, ocean engineering design, structural analysis, marine engineering services, techno commercial feasibility, port and shipyard development services and marine cargo services.

### Zebec Marine Consultants and Services

#### New Building Project Management



- Pre Contract:
- Shipyard Evaluation and Selection
  - Ship Building Contract Review (Technical)
  - Technical Specification Review
  - Equipment Package Review
- Post Contract:
- Design / Drawing Appraisal
  - Site Supervision and Reporting
  - Sea Trial and Commissioning
  - Guarantee Claim Handling

#### Concept/Basic/Detailed Design Engineering



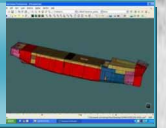
- Conceptual Design
- Vessel Hull Modeling
- Basic Design
- Vessel Conversion Design
- Repair and Modification Design
- Offshore Design and Engineering
  - FPSO Pre Bid Engineering
  - Green Water Analysis
  - Spread Mooring Analysis
  - Tandem Offloading Analysis
  - DP Capability Study
  - Load out Services
- Vessel Structural Analysis
- Global & Local FE Analysis
- Three Hold Analysis
- Production / Detailed Design
- Wind Load Analysis for Project Cargo

#### Feasibility Studies



- Ports and Harbours
  - Terminals
  - Coastal Engineering and Hydraulic Modeling
  - Maneuvering Simulation
  - Risk Assessment
- Cruise Terminal and Marinas
- Logistics Studies
- Market Demand Studies
- Business Planning and Company Structuring
  - Due Diligence for Investment in Marine Assets
  - Regulatory Framework
  - Assistance in Bidding for Tenders
- Ship Building Yards and Ship-repair Yards

#### Naval Architecture/Manuals



- Stability Manual
- Ballast Water Management Plan
- Shipboard Marine Pollution Emergency Plan
- Cargo Securing Manual
- Ship Plans Digitization
- Risk Manual
- Shipboard Oil Pollution Emergency Plan
- Procedures and Arrangements Manual (P&A)
- Emergency Towing Booklet
- Damage Control Booklet
- Safety Management System
- ISPS Manual
- Drilling Safety Manual

#### Marine Engineering



- Vessel Pre-purchase Inspection
- Vessel Life Extension And Up-gradation Studies
- Dry Dock Superintending Assistance

#### Asset Integrity Management



- Structural Asset Integrity
- Risk Based Inspections (RBI)
- Reliability Centered Maintenance (RCM)

#### Risk Management Services



- HAZID and HAZOP
- Process safety analysis
- Likelihood and consequence analysis
- Impact and control measures
- Risk reduction methods
- Cost benefit analysis
- Risk manual preparation

#### Marine Services



- Shipboard Surveys and Inspections
- Vessel Condition Assessment
- Shore based Surveys and Inspections
- Cargo Logistics Management
- Pre-vetting and Tanker Services

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