



### **Turnkey Concept to New Build Project Management**

Zebec Marine Consultants & Services has built up a reputation for excellence in New Building Project Management. Our team comprises of marine engineers, naval architects, production engineers, electrical engineers and senior ship officers, with operational background from most types of ships and hands on marine construction projects. From concept, right up to vessel delivery and after, Zebec provides clients a disciplined and professional project management service. From shipyard evaluation and contract signing right up to vessel delivery and guarantee claims handling, Zebec endeavours to provide its clients a complete and comprehensive management solution. Our personnel have extensive experience at various shipyards and for various vessel types. The scope of work covered in a typical new build project includes supervision and monitoring for:

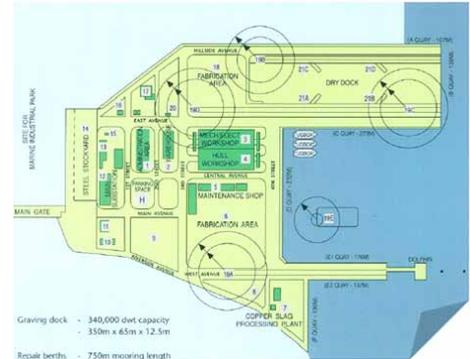
- Technical specification review
- Construction and erection
- Shipyards evaluation and selection
- Contract review
- Equipment package review
- Commissioning & trials
- Guarantee claims handling



## Pre-contract Services

### Shipyards Evaluation and Selection

- Evaluated potential builders of the vessel
- Impact the shipyards order book schedule would have on the Clients new build programme.
- Design and construction technology practised at the yard and future upgrades planned and impact on the project
- Evaluation for experience to lead the manufacture of the vessel
- Capability to design and production engineer the desired type of vessels
- Capability to manufacture / construct to owner's design requirements
- Financial strength and sustainability of the shipyard



### Ship Building Contract Review (Technical)

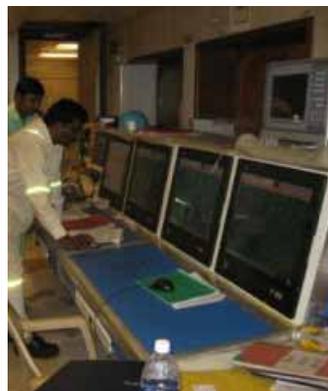
An extensive review of all technical clauses of the contract is carried out with focus to address and mitigate all grey areas and likely contentious issues, thus protecting the client's interest.

These include, but are not limited to, the following clauses:

- Definitions
- Maker's list
- Delivery date and delivery
- Specification and general arrangement drawing
- Plans & drawings approval and inspection during construction
- Delays and extension of time for delivery (force majeure)
- Warranty of quality
- Buyer's supplies
- The vessel, description and class
- Modifications and changes
- Test and trials
- Stage payment terms
- Default provisions
- Notices

### Technical Specifications Review

Our Team is able to draw on a centralized database for new build projects involving similar vessel types and yards in order to optimize the technical specifications drawn up by the shipyard. Our focus throughout this process, is on the ease of operability of the vessels and the owner's interest.



### **Equipment Package Review**

To ensure that your vessel is outfitted with equipment intended for the purpose, , we review extensively the choice of selection available based on:-

- Intended trading area of vessel
- Equipment maker reputation
- Product suitability for intended type
- Delivery and quality records of the manufacturer
- Serviceability
- Purchase specifications
- Yard experience in installing selected equipment
- Makers installation representation
- Availability of spares in trading region



### **Post-contract Services**

#### **Design / Drawing Review**

Design review is based upon a thorough assessment of all drawings with special regard to technical compliance and applications, safety and long-term maintenance. In addition, due emphasis is given to conformance with applicable rules and regulations.

Design Drawing Appraisal includes a thorough review of :-

- Structural drawings
- Piping and system drawings
- Drawings for accommodation spaces, stores and specialized compartments
- Machinery and Electrical drawings and calculations
- Cargo handling system drawings
- Navigational and communication equipment layout
- Naval architectural computations



#### **Site Supervision**

Our site supervision focuses on compliance with the contracted specification and monitoring with focus on :

- Good International ship building practices
- Proper installation and alignments of equipments
- Proper surface preparation and coating application
- Attendance during trials and witness and record tests
- Scheduling and deviations
- Liaison with all parties involved in construction
- Crew familiarization in co-ordination with the shipyard
- Reporting on all project activities, including time and cost impacts and deviations
- Comprehensive project reporting that is both statistical and narrative in content



### ***Commissioning, Dock and Sea Trials Assistance***

Our site teams attend and provide on the spot assistance during the crucial events of commissioning of machinery and systems. The team constantly monitors and ensures that manufacturer's and designer's recommendations are strictly adhered to.

All parameters are recorded, analyzed and checked to ensure design and equipment compliance as contracted. Shortfalls during any of these cardinal events are addressed and duly rectified in consultation with shipyard, manufacturer's representatives, classification society surveyors, taking the client into the full confidence on all matters.

### ***Guarantee Claim Handling***

As an add-on service if called upon, a dedicated resource is allocated to categorize, evaluate, correspond with both, shipyard and owner, track, and close out the warranty claim. The focus being to expedite the claim thus ensuring minimum vessel downtime and also reduce possible off-hire and commercial loss to the client.



***Contact us or Email us for your queries;***

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