



SENA SHIP DESIGN

OUR COMPANY PROFILE

Advanced Ship Design & Marine
Engineering

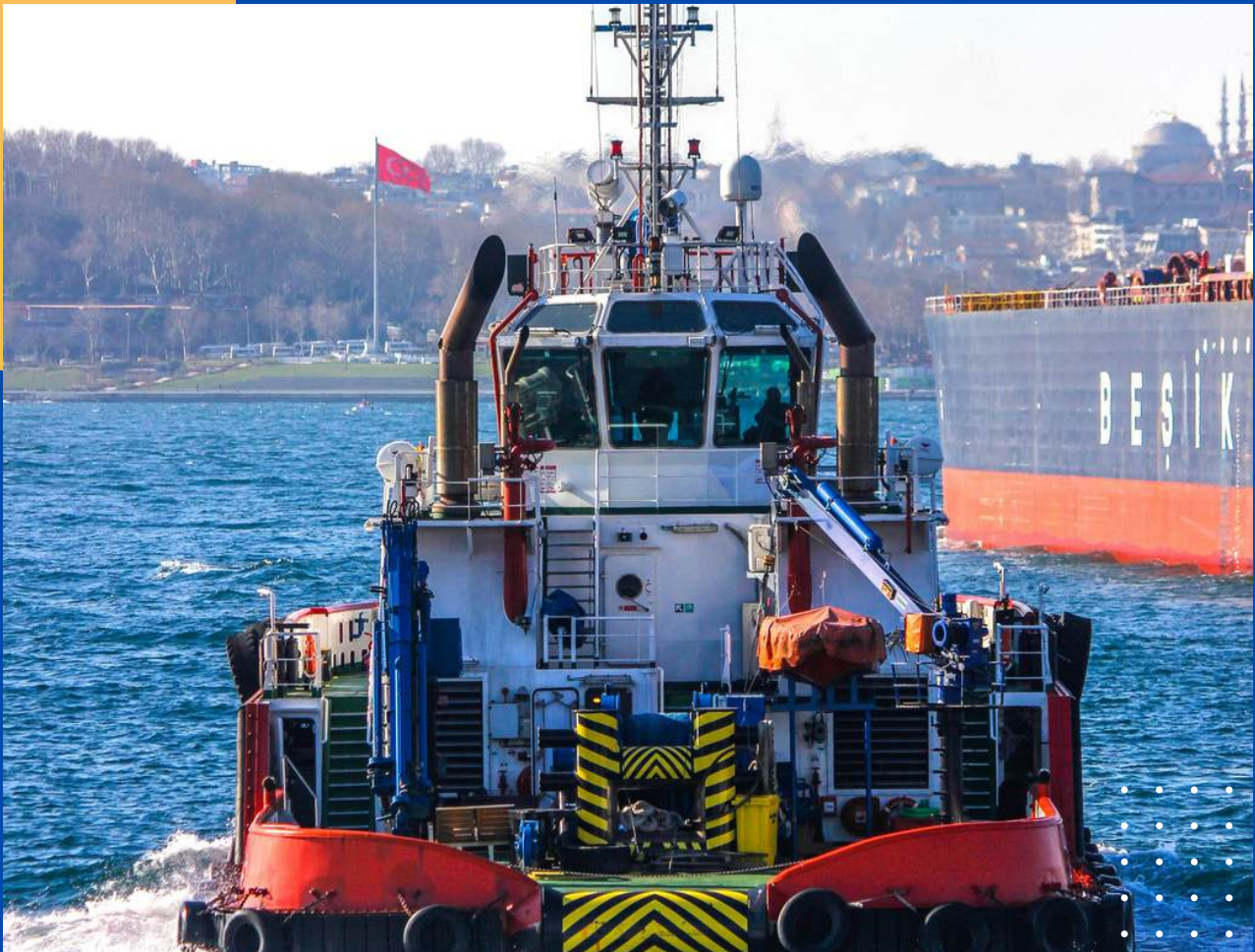


Visit our website or our social media profiles for more information about our services, teams, and latest news.

Website: www.senashipdesign.com

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COMPANY OVERVIEW

About Us

SENA SHIP DESIGN is a trusted partner in ship design and marine engineering with more than 20 years of experience. SENAspecialize in delivering innovative, class-compliant solutions to shipowners, operators, and naval equipment suppliers.

Our main objective is to design solutions for all types of marine vessels and offshore structures, from early concept and contract design to class-level design and detailed production engineering.

MISSION & VISION

Mission

Our Mission is to deliver professional, reliable ship design and marine engineering solutions that meet international standards, support operational efficiency and provide practical and cost-effective results for shipowners, operators, and shipyards worldwide.

Vision

Our vision is to be a globally recognized leader in ship design and marine engineering, known for innovation, technical excellence and dependable solutions that advance the maritime industry while creating lasting value for our clients and partners.



COMPANY VALUES

Our values are integrity, quality and professionalism, guiding every project we undertake. We prioritize client satisfaction, technical excellence, innovation and collaboration, ensuring reliable, efficient and sustainable ship design solutions that meet industry standards and build long-term trust.

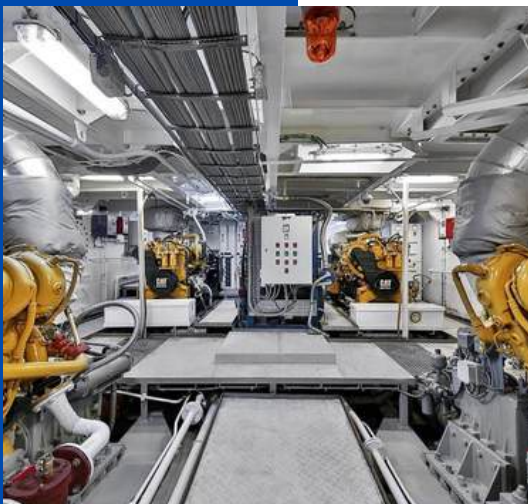


OUR SERVICES



New Vessel Design

We develop complete design solutions for new vessels, from conceptual studies and feasibility assessments to class approval and production drawings.



Refit & Conversion Design

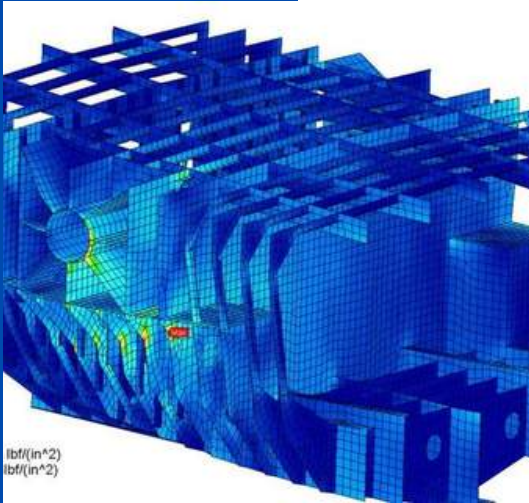
We provide engineering support for vessel modifications, upgrades, and conversions, ensuring technical compliance and operational effectiveness.



Construction Supervision

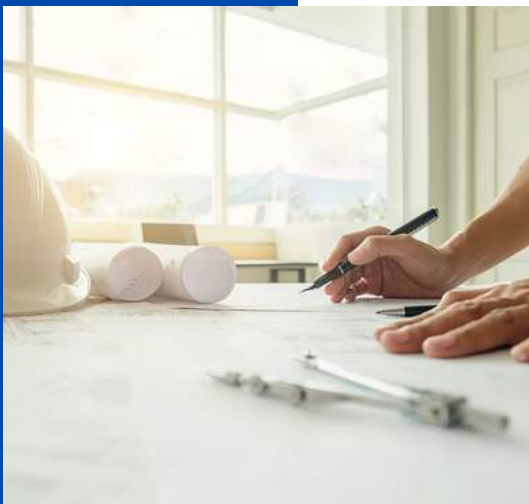
We support shipbuilding, repair, and refit projects through professional supervision services focused on quality control, specification compliance, and schedule follow-up.

OUR SERVICES



Advanced Engineering

We deliver advanced technical studies using Computational Fluid Dynamics (CFD) and Finite Element Analysis (FEA) to improve vessel performance, efficiency, and structural reliability.



Marine Consultancy

We provide specialized engineering consultation to shipowners, operators, and marine equipment suppliers to support informed technical and commercial decisions.



Marine Survey

We perform survey-related engineering support in accordance with relevant regulations, standards, and offshore operational requirements.



CLASSIFICATION & DESIGN TOOLS

Classification Society Approvals & Liaison

Class-compliance solutions from concept to delivery



Bureau Veritas



ABS Class.



DNV-GL



Lloyd's Register

SHIP DESIGN SOFTWARE & DIGITAL CAPABILITIES

"Advanced digital tools for precision engineering"

CONCEPT

- Autocad
- Rhino 3D
- MAXSURF

PRODUCTION

- AVEVA Marine
- SolidWork
- CADMATIC

ANALYSIS

- ANSYS
- OpenFOAM
- ABAQUS

QUALITY ASSURANCE FRAMEWORK

ISO 9001:2015

Quality management across the design lifecycle

Peer-Review Process

Dual technical review at every stage

Class Society Standards

Full compliance with approved documentation protocols

NOTABLE PROJECTS

The following are representative examples of our work. These selected projects highlight our capabilities across various vessel types and service scopes.

- Patrol Boat.
- Anchor Handling Tug Supply Vessel.
- Crew Boat.
- Tug & Supply Boat.
- Self-propelled Bunker Barge.



Patrol Boat “ATCO NOURA”



Change of Class Notation from Patrol Boat to Crew Boat

Project Overview

We provided the required updates for Patrol Boat “ATCO NOURA” in accordance with the class notation change from Patrol Boat to Crew Boat, as per BV requirements and applicable IMO regulations.

Project Details

CLIENT

ATCO ports
management & marine
services

CLASS

Bureau Veritas BV

YEAR

2024

Ship Specification

Length Overall	45.00 m
Breadth Moulded	8.00 m
Depth Moulded	4.60 m
Draft Max.	2.40 m

Project Solutions

Scope of Work:

01

**Update of Fire
Control & Safety
Plan**

02

**Sewage System
Capacity
Calculation**

03

**Sewage Piping
System update**

04

**Preparation of
Intact Stability
Booklet**

05

**Final Class
Approval**

PROJECT GALLERY



AHTS - PMS BELAYIM DP11



Upgrading PMS BELAYIM DP11 - Installation of ROV System

Project Overview

We provided the required Upgrading for vessel “PMS BELAYIM” to install on board “SMD QUASAR 24 ROV System”, in accordance with ABS requirements and applicable IMO regulations.

Project Details

CLIENT

Petroleum Marine
Services Co. (PMS)

CLASS

American Bureau of
Shipping ABS

YEAR

2023

Ship Specification

Length Overall	60.00 m
Breadth Moulded	15.80 m
Depth Moulded	6.50 m
Draft Max.	5.20 m

Project Solutions

Scope of Work:

01

Revised water
spray system
(FFVI)

02

Revised water
spray and pump
capacity

03

Revised Safety &
Fire Control plan

04

Revised Fire
Protection plans

05

IMDG Carriage plan

PROJECT GALLERY



Crew Boat “GLADIATOR”



Project Overview

We provided the full design package and supervision for crew boat “GLADIATOR”, the Concept and Tender Design, in close co-operation with the owner from scratch into class approval BV.

Project Details

CLIENT	CLASS	YEAR
Gladiator Marine Co.	Bureau Veritas BV	2020

Ship Specification

Length Overall	23.60 m
Breadth Moulded	5.80 m
Depth Moulded	3.25 m
Draft Max.	2.40 m

Project Solutions

Scope of Work:

01

Concept Design

02

Tender Design

03

Basic Design

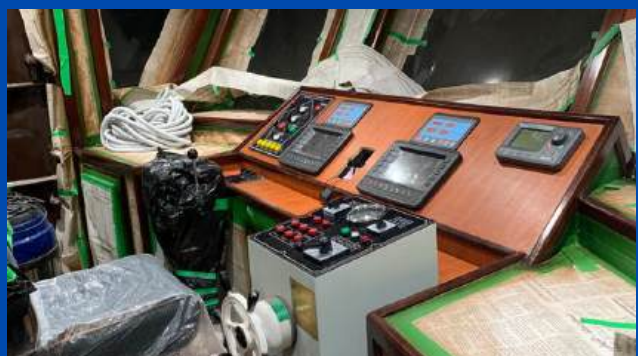
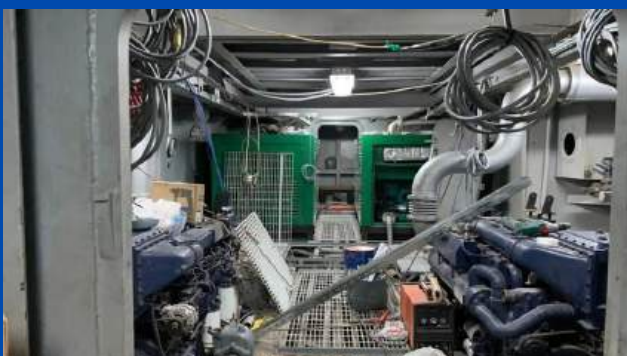
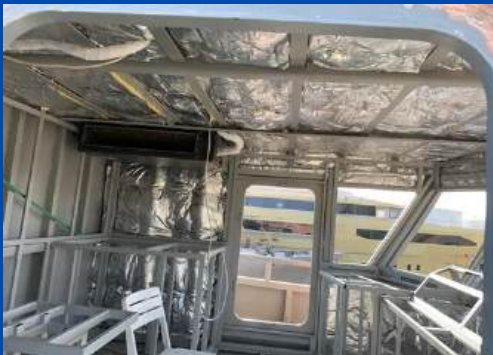
04

Class Approval

05

On-site Supervision

PROJECT GALLERY



Tug & Supply Boat “MANZONI”



New Vessel Design - Concept and Basic Design

Project Overview

We provided the New Vessel design and supervision of Tug & Supply Boat “MANZONI”, the Concept and Tender Design, in close co-operation with owner in accordance with Flag State and applicable IMO rules.

Project Details

CLIENT	FLAG	YEAR
Suez Environmental & Marine Services Co.	TOGO	2018

Ship Specification

Length Overall	19.80 m
Breadth Moulded	6.00 m
Depth Moulded	3.25 m
Draft Max.	2.20 m

Project Solutions

Scope of Work:

01
Concept Design

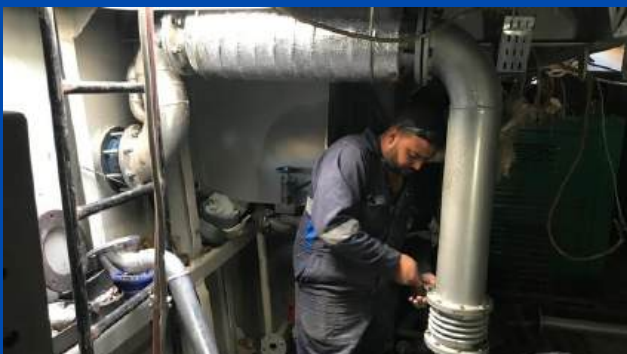
02
Tender Design

03
Basic Design

04
Preparation of
Intact Stability
Booklet

05
Flag Registration

PROJECT GALLERY



1200 Ton Bunker Barge



Project Overview

Concept and tender design supported by advanced FEA and CFD studies. This project demonstrates our capability in combining conceptual design with technical performance analysis.

Project Details

CLIENT

CONFIDENTIAL

CLASS

As Applicable

YEAR

2019

Ship Specification

Length Overall	65.50 m
Breadth Moulded	11.00 m
Depth Moulded	4.20 m
Draft Max.	3.40 m

Project Solutions

Scope of Work:

01
Feasibility Study

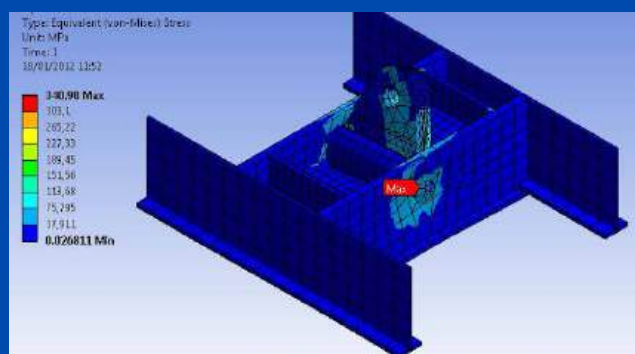
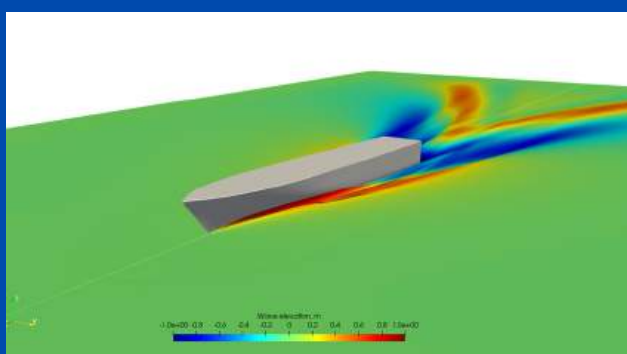
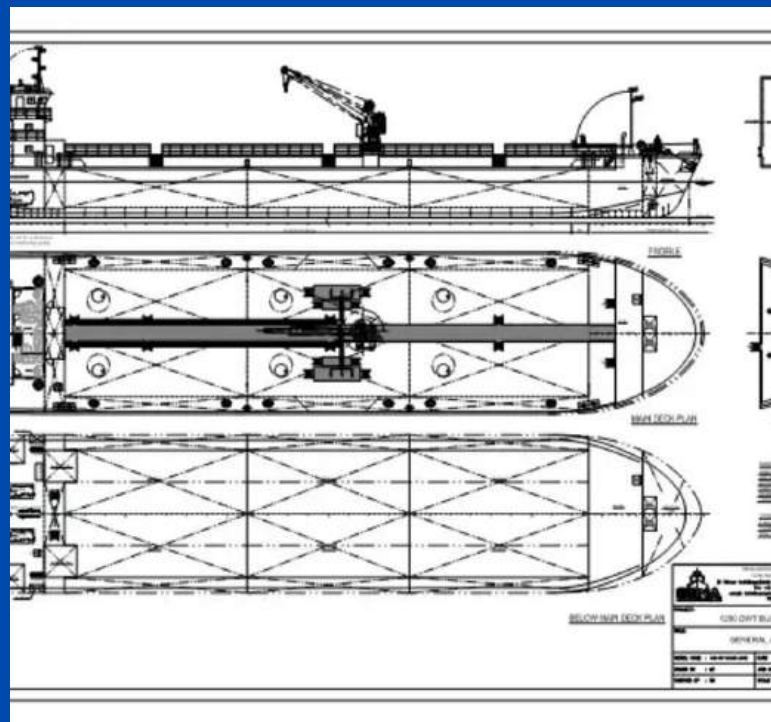
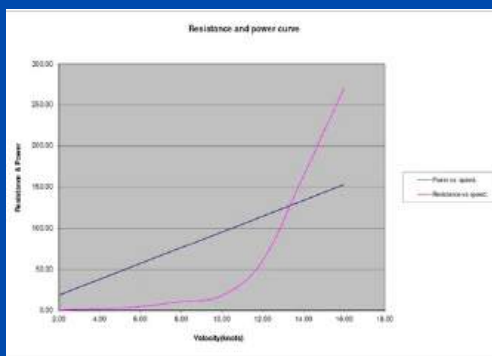
02
Tender/Contract
Design

03
Basic Design

04
FEA Analysis

05
CFD Analysis

PROJECT GALLERY





CLIENTS & PARTNERS



PMS Marine



نوم NEOM

NEOM



ASTINAVE SHIPYARD



ATCO GROUP



Dar Al Handasah



SNL Marine



WHY PARTNER WITH SENA

TECHNICAL WORKFORCE

Our team includes licensed naval architects, marine engineers, classification society liaisons, and regulatory compliance specialists.

QUALITY MANAGEMENT

ISO-aligned project delivery protocols, peer-review validation processes, and class-society approved documentation standards.

REGIONAL EXPERIENCE

Successful execution of marine engineering and regulatory compliance projects across Middle East, Africa, Europe, and International Maritime Markets.

ADMINISTRATIVE CAPACITY

Stable corporate structure, dedicated project management office, and proven capacity to mobilize multidisciplinary teams within tight procurement timelines.



COMPANY PROFILE 2026

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