

# PARTNERSHIP WITH GLOBAL ORGANIZATIONS ON SHIPPING SOLUTIONS & SERVICES

**Air Lubrication Systems (ALS) installation**

**SILVERSTREAM**  
TECHNOLOGIES

**Cargo Tank Testing Services**

 **ACTEMIUM**

**Robotic blasting**

**vertidrive**

**Maritime Engineering, Vessel MRO, Ship Refit / Retrofits, Offshore & Subsurface products and services**

**BOILERMAN**

**Maritime Services collaboration**



**KONGSBERG**

**Stern tube seals and propulsion solutions**

 **AEGIR**  
Marine

**Maintenance of main engine (2-Stroke)**

**HSD) engine**

**Fabrication of Glass Reinforced Plastic (GRP) items**

 **CSUB**

**Repair of LNG Cargo tanks fitted with GTT Technology**

**CRS** CCS REPAIR SOLUTION

**Electrical cables and penetration fire stopping services**



**Repair / Servicing and Upgrading of Rotating Equipment**

 **CPR**  
CRYO PUMP REPAIRS LTD

**On-site Ship chandler services at Shipyard**

**CHM**  
GLOBAL

**LNG Cargo tank repairs and related services**

 **Gabadi**

**Waste Heat Recovery System (WHRS) installation**

**ALFA**  
**LAVAL**

**Marine engine propulsion and control systems, propeller maintenance, turbocharger MRO**



**Passive Air Lubrication System Installation (PALS)**

 **armada**  
TECHNOLOGIES

**Tank inspection using Drones & future capability on UT gauging with Drones**

  
قطر للطاقة  
QatarEnergy

# ENHANCED RANGE OF IN-HOUSE CAPABILITIES, SOLUTIONS AND SERVICES

## Ballast Water Treatment System (BWTS) After-sales Station

Partnership with major global BWTS vendors for after-sales and project support



## Remote Inspection Technologies

Joint Development Projects (JDP) with leading Marine Classification Societies



# ENHANCED RANGE OF IN-HOUSE CAPABILITIES, SOLUTIONS AND SERVICES

## ELECTRICAL

- ✓ Magnetic Compass Calibration
- ✓ Fiber Optic Cable Splicing
- ✓ Thermographic Camera Survey for Switchboard & Hot Insulation
- ✓ Hot Spot test and Rewinding of Motor Stator
- ✓ Calibration of Electronic / Electrical Measuring Instruments
- ✓ Robotic Trunk cleaning of HVAC Duct
- ✓ Vibration Analysis
- ✓ Upholstery work for Marine & Offshore projects
- ✓ GI Duct fabrication (square & spiral) & installation

## ENGINEERING

- ✓ 3D Cadmatic Modelling Software
- ✓ Finite Element Modelling Software for complex structural analysis
- ✓ TEKLA Software for Offshore fabrication

## MECHANICAL

- ✓ Chroming facility for Piston Crowns, Hydraulic Cylinder Rams
- ✓ Main Condenser cleaning - Steam ships
- ✓ Ceramic coating of Valves, Pump Casing, Strainers & End plates for Coolers
- ✓ Overhauling of Piston-operated Valves for Main Boilers of LNG Steamships
- ✓ Complete Incinerators refurbishment
- ✓ Rocking Test for Cranes
- ✓ Laser Alignment checking of Shafting jobs
- ✓ Overhaul of Cargo SNR / Non-Return Valves (NRV) and Manual Valves
- ✓ Chock Fasting
- ✓ Fluorescent Particle Testing for Leak checks on Heat Exchangers
- ✓ Vacuum Box testing for LNG ships Membrane tanks
- ✓ Deadweight valves for NO 96 & MARK III Integrated Bridge System (IBS) protection
- ✓ Pickling Facility for cleaning
- ✓ Cargo Line Safety Valves overhauling

# ENHANCED RANGE OF IN-HOUSE CAPABILITIES, SOLUTIONS AND SERVICES

## PIPING

- ✓ Pneumatic Pipeline Inspection Gauging (PIG) of pipeline spools
- ✓ Subsea Pipeline (API 5L - EX65 / F65) Welding
- ✓ Incoloy Welding
- ✓ Pipe Spools fabrication for like-to-like renewal without removing existing spools when vessels are in operation / service
- ✓ LNG Liquid Line Filter fabrication

## SHIPWRIGHT

- ✓ Field Joint Coating (FJC) - High Temperature Tape Polymetric (HTTP) Wrapping for subsea pipelines
- ✓ Subsea pipeline 3-layer Polyethylene / Polypropylene (3LPE) coating repair
- ✓ Mooring Wires and Mooring Tails Destructive Testing
- ✓ Lifeboat Testing facility
- ✓ Robotic Grit Blasting
- ✓ Supply Boat Service

## STEELWORKS

- ✓ Propeller - Build-up welding
- ✓ Aluminum Fabrication / Repair works
- ✓ Cast Steel Welding
- ✓ Corrugated Bulkheads Fabrication (Plate thickness from 3mm - 35mm)
- ✓ Plate rolling / Cones fabrication (Plate thickness from 3mm - 35mm)
- ✓ Anchor Fluke / Shank straightening
- ✓ Rudder shaft, Tail Shaft build-up
- ✓ CNC Plate Cutting Machine (Oxy Fuel, Plasma cutting) capable of cutting Mild steel (MS), Stainless steel, Duplex, Aluminum, Bronze, Copper & Alloy steel), cutting thickness: Mild Steel up to 200mm and other materials up to 30mm
- ✓ Structural Pipe Welding work - Mild Steel (6G / 6GR joints)
- ✓ GI Duct fabrication (square & spiral) & installation