







-  **ENGINEERING**
-  **GREEN SOLUTIONS**
-  **INSPECTION**
-  **REPAIR**
-  **MAINTENANCE**
-  **ADVANCED ROBOTICS**

Aries is one of the world's premier Naval Architecture, Engineering, Inspection and Maintenance firm. Founded in 1998, Aries has operations in 30 countries. Aries Marine is the largest UT gauging, Rope access, inspections, Repair & Maintenance firm in the world and leads in providing Naval architecture, Engineering solutions for conversions, retrofits, upgrades, Decarbonization solutions, 3D scanning and Scrubber retrofits along with new build designs and conversions.

SECTORS

MARITIME | OFFSHORE | OIL&GAS | RENEWABLES | AVIATION | PETROCHEMICAL | CIVIL INDUSTRIAL



OFFSHORE NAVAL ARCHITECTURE AND ENGINEERING SERVICES



Conversion & Retrofit Engineering

- Naval architecture & Engineering
- Concept development for Conversions, Retrofits & Upgrades
- Basic & detail design
- New Build designs - Tugs, tankers, landing crafts, Supply vessels, Floating docks, Multicats
- Consultancy for Naval vessels
- Sea transportation studies
- Reverse engineering
- Ship's stability assessments,
- Loading software's
- Digitalisation of Maritime assets
- 3d Laser Scanning & Visual
- Reefer upgrades



Decarbonization Solutions

- Feasibility studies for implementing various solutions available in the market
- Engineering and studies for dual fuel conversions including use of Biofuels and Methanol
- Turnkey installations of Shore power/ AMP (Alternative Marine Power)
- Turnkey VFD installations
- Engineering for Bulbous bow modifications
- Engineering for Windshield installations
- Engineering for Micro Boiler/Waste Heat Recovery Installations
- Deadweight increases studies
- Engineering studies for Shaft generator installations
- Engineering studies for ESS- Energy Storage Systems (Hybrid conversions)
- Studies towards Onboard Carbon capture solutions
- Engineering and installation of Air Lubrication systems



Aries Electrical & Instrumentation Division

- Electrical Engineering - Basic & detailed
- EX Surveys
- Manufacturing of Panels, Switchboards
- Onboard electrical trouble shooting
- Installation and commissioning
- Trading of electrical components and equipments



Hydraulics & Power Solutions

- Repair troubleshooting, rectification, overhauling, maintenance & pressure testing
- Procurement & supply of fittings, spares, filters, manifolds, hoses & control lines(SS)
- Hydraulic control circuit schematics
- Basic design & Detailed Engineering
- Repairs of hydraulic pumps, valves, actuators, motors & controls both on site & inhouse.
- Repair troubleshooting, rectification, overhauling, maintenance & pressure testing
- Services for Cranes, Davits, Winches, Windlass, Power pack units etc



Project Management and Survey

- Drawing review and approval on behalf of Owners for New build and conversion
- Project Management and Site Supervision for Newbuilds and Conversions
- Supervision and project management for steel repairs worldwide
- Installation and commissioning of Machinery, piping and electrical systems on ships and offshore installations,
- Condition surveys
- DP Trials
- FMEA reports
- JH143 Shipyard assessments
- ISM/ISPS/ISO Audits.
- Marine Warranty services
- Pre-purchase inspections
- Various ship related manuals preparations

Aerial & Underwater Services – Using Drones & Divers

- UWILD Surveys
- Hull cleaning and propeller polishing
- Underwater ACFM
- Underwater Anode Welding
- Spud can Cleaning
- In water Survey
- Ballast water tanks inspections
- Rig leg and jacket inspections
- Underwater pipe line inspections
- Damage Surveys



Subsea Engineering

- Subsea Umbilical, Riser & Flowline Analysis
- Subsea Pipeline & Flowline Engineering
- Subsea Installation Engineering
- Subsea Payload Handling, Lifting & Lowering
- Subsea Dynamic Simulation Analysis
- Subsea Layouts & Arrangement Drawings
- Subsea PLEM Desing Engineering



Technical Documentation & Audit

- IHM Certification
- Ballast water management plan preparation/ updates
- Management Systems Documentation
- ISM Documentation
- Audits
- Market Study
- Compliance Verification
- Contract review



Marine Survey

- Condition Surveys
- Marine Warranty Surveys Hull / Corrosion Surveys
- Steel Renewal Surveys
- Damage Surveys Shore & Ship cargo gear survey
- On Hire / Off Hire Surveys
- Bunker Surveys
- Container Loading & Unloading Survey
- Safety Surveys
- Inspection & Preparation of Dry Dock Specification
- Owners Representatives / Dry dock Superintendence



3D Laser Scanning & Modelling

- 3D Scan to BIM Model
- As Built Piping for plants - P & ID & Isometric
- Ships Tank Calibration & Storage Tank Calibration
- Volume Measurements
- Break Water As Built Layout
- 3D Printing



Marine Equipment Trading

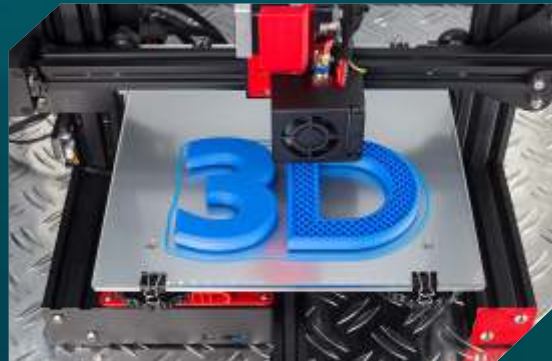
- Marine cables
- Deck machineries
- Valves pipes and fittings
- Pumps and flow accessories
- Electrical breakers and MSB
- Main and auxiliary machineries
- Navigation and communication equipments
- Safety-life saving, fire fighting equipments
- Measurement / scanning equipments



Additive Manufacturing- 3D Printing

- Spare Parts
- Complex Geometry
- Functional Prototypes & Mock-ups
- Downhole Tools & Components

Materials: Aluminium, Stainless Steel, Nickel Alloys, Titanium, Carbon Fibre, Glass filled Carbon Fibre



INSPECTION SERVICES

Ultra sonic thickness measurements

(Largest ISO certified TM Firm in the world)

- World's largest Class Approved UTM Services with 200+ technicians
- Riding Squad with Seamen book/Visa & Offshore Safety Certificates
- Steel Repair Estimation
- Coating Repair Estimation
- Class Approved Rope Access Services (RIT)
- Drone Survey
- Steel Repair Supervision
- Experienced with Rigs, FPSO, FSO, MODU's, Platforms and well heads



Conventional and Advanced NDT (World recognized leader in delivering advanced Non-destructive testing (NDT))

- PAUT & TOFD
- NFT & RFET
- RT & Mechanical testing.
- Eddy Current Tube
- IRIS
- OCTG
- Bolt Inspection
- Corrosion Under Insulation
- All types of NDT methods
- Amusement Park - NDT Inspection
- ASNT/PCN level - 3 Services.
- Level -II Training & certification (As per SNT-TC-1A).
- Leak Test (Ultrasonic & vacuum box testing) .
- ACFM



Rope access

(Full member of IRATA)

- Class Approved (RIT) Advanced and Conventional Non-Destructive inspections.
- Dropped Object Surveys (DROPS)
- Experienced team for wind mill
- Coating rectification (Blasting & Painting)
- Bridgework maintenance & name changing.
- Approved by IRATA and with own training facility.
- Derrick Surveys (API RP 4G - CAT-III)
- Flare Stack/ Radio Tower Inspections
- Riser/Well Head Inspections
- Eddy current inspection
- Crane inspection and maintenance.



Predictive Maintenance Survey

- Thermographic Survey
- Vibration Analysis
- Light Survey
- Energy Audit
- Noise Survey
- MLC Accom Notation - Human Comfortability Survey as per IACS Class requirement



Helideck inspection and certification

- Helideck Friction testing
- Helideck Audit & Certification
- Perimeter Net Drop Test and Certification
- Helideck Visual Aids Light survey



Helium leak testing

- precise and efficient helium leak testing
- Bubble leak test - Direct Pressure
- Helium Mass Spectrometer - Vacuum method – Hood test/ Tracer probe test
- Fast leak detection due to relatively short reaction times



Calibration & Testing services

- Pressure Instruments
- Pressure Relief Valves testing & Calibration
- Flow meters Calibration & Maintenance
- Hydro/ Pneumatic Testing
- Gas Detectors calibration



OCTG inspection

- Visual/Dimensional inspection of drill pipes/casing/Tubing/BHA tools/HWDPS/ring parts and handling equipments.
- EMI inspection
- Full length API drift



Asset integrity inspections

- Condition monitoring & Integrity Assessment
- RBI Software
- Piping Inspection (API 570)
- Risk Base Analysis (RBI)
- Tank Calibration.
- Tank Robotic Inspection & Cleaning



Cathodic protection services

- Cathodic protection surveys, design, consultancy, Installation, supervision, maintenance, commissioning, and hand over activities in Oil& gas, offshore and Civil sectors.
- Remote monitoring and control.
- Close interval potential surveys.
- Integrated assessment surveys.



Lifting equipment's and loose gear inspections

- Wire Rope Inspection
- Inspections and Certification of Containers, Offshore Baskets, Cargo Baskets
- Load Testing of Derricks Life Boat Davits Systems, Offshore/ Land Rigs, Vessel and Barges
- Offshore & Onshore Cranes Inspection
- Electromagnets (EMAG) Inspection
- Spooling, De-spooling Wire Ropes

Civil Testing Lab

- Geotechnical investigation
- Construction material testing
- Soil tests
- Concrete tests
- Aggregate tests
- Steel testing
- Chemical testing
- Civil condition assessment & evaluation services



REPAIR & MAINTENANCE SERVICES

CCS (Corrosion Control Services)

- All types of Coating maintenance in offshore/ Marine Sectors
- Riding squad for Deck & Ballast tank maintenance
- Hydro jetting/Power tooling and Painting
- Deck cosmetic up-gradation/ maintenance.
- Ballast Tank Coating Maintenance.
- Helideck Coating maintenance as per standard
- Coating condition Surveys & Inspection
- Maintenance supervision
- Coating superintendency for shipyard/drydocking projects
- Coating failure analysis



Welding and fabrication

- Riding fitters for sailing & afloat repair jobs(ballast tanks & deck fittings)
- Pre fabrication & installation of offshore structures/ piping
- High pressure and LP lines Installation/re-routing for offshore units
- Structural/piping modification works & engineering support
- Class certified welders (4G to 6GR)
- Sea fastening jobs
- Offshore baskets/ racks, lifting cages fabrication
- Tower and hanging scaffolding services
- Scaffolding material rental/ sales
- Offshore racks/ welding equipment rental



Mechanical maintenance

- Mechanical fitters for sailing & afloat maintenance
- Main and Aux. engine overhauling
- Pumps overhauling, testing, parts machining & fabrication jobs

- Heat exchangers cleaning, re-tubing, plugging, tube expansion, pressure testing and end cover repair
- Deck machineries removal, overhauling, free-up and installation
- Crane overhauling, jib/boom remove and refits, inspections etc.
- Mooring equipment's services
- Hatch cover rollers removal, free up and renewal
- Shaft alignment (Laser and dial alignment)
- Equipment's installation and replacement
- Supply of spares and consumables
- Pickling and passivation
- Ferroxyl test
- Pipe lines Chemical cleaning/flushing.
- Mechanical manpower assistance for offshore and sailing jobs

HVAC services and accommodation refurbishment

- Insulation and Claddings (Fire rated, Thermal, Pipe insulation / Laggings etc.)
- HVAC /Refrigeration /AHU Health checkup & maintenance.
- HVAC design & Heat load calculation.
- Compressor/Chiller/freezer container overhaul.
- Cold room engineering works and installation.
- Accommodation refurbishment/ Floor repair, Plumbing & Carpentry works.
- Duct fabrications, Dampers maintenance & Installations.
- AC duct cleaning, UV light Installation & Sanitization.
- Air balancing & Water balancing.

Signage & marking services

- IMO Signs
- Dual language Pipe marking labels
- Safety/Operational Signs
- Warning, Mandatory and Prohibition Signs
- Lockout Tagout (LOTO)
- Equipment Tags
- Plotter cut stencils
- Low Location Lighting Inspection & Installation (Approved service provider for LLL by IACS class)





*I congratulate all our staff, clients and well wishers and thank them for their contributions as Aries successfully completes its 27 year voyage. I am proud of what we have achieved over the last two decades and half. We expanded our activities, gained global recognition and diversified into new territories to provide sustainable global contributions.
I am sure we shall continue to scale new peaks in the years to come!*

Sir. Sohan Roy
Founder Chairman & CEO
Aries Group

UAE
 Saudi Arabia
 Qatar
 Oman
 Bahrain
 Kuwait
 India
 Nepal

Azerbaijan
 China
 Japan
 Malaysia
 Singapore
 Sri Lanka
 Greece
 Indonesia

Brunei
 Turkey
 Netherlands
 Germany
 UK
 USA
 Angola
 South Africa

OUR GLOBAL PRESENCE

Madagascar
 Morocco
 Nigeria
 Guyana
 Vietnam
 Spain



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