

LEOS MARITIME SOLUTIONS PVT LTD



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Leos maritime solution (OPC) Pvt Ltd

ISO 9001-2015

Is the leading provider of marine and offshore infrastructure support services that has satisfied clients with 24-hour service, comprehensive safety and quality programs, and competitive rates. Our experience enables us to adapt quickly to unique problems and resolve potentially costly situations.



Lloyd's
Register



MSME
MICRO, SMALL & MEDIUM ENTERPRISES
OUR STRENGTH • YOUR GROWTH
Ministry of MSME, Govt. of India



BUREAU
VERITAS



ABS



IMCA



IRCLASS
Indian Register of Shipping



KPT REGISTRAION NO: 916987
DPA KANDLA (TRADE LICENSE)



In water survey of ships afloat Leos Divers has the capability of inspecting vessels both in dock and afloat.



In accordance with official rules and industry standards, the underwater inspection (survey) as well as estimation of state of the ships hull when the ship is afloat is possible only with special instruments and equipment by means of which the measurements should be carried out, this includes a video transmitting system, where images can be viewed in real time (CCTV or underwater television/ HD 4K Steel photography). Fault detection methods like this enables assessment of a ships structural integrity while the ship is afloat, without the necessity of docking.



A diver in a yellow helmet and black suit is working on a large metal structure underwater. The diver is wearing a full-face mask and has a breathing apparatus. The background is a deep blue ocean with some bubbles. In the top right corner, there is a logo featuring a lion's head and the text "Maritime Salvage".

Underwater Repair and Maintenance

1. Underwater Inspection:

- State-of-the-art equipment and trained professionals for thorough underwater inspections.
- Utilization of underwater cameras, ROVs, and divers to identify and assess maintenance needs.

2. Underwater Repair:

- Skilled divers and technicians proficient in a wide range of repair techniques, including welding, cutting, and concrete repair.
- Specialized equipment and materials for effective underwater repairs, ensuring structural integrity.

- Efficient, Underwater Hull Cleaning with Advanced Water Jet Technology"

Experience the power of cutting-edge water jet technology for superior underwater hull cleaning. Our eco-friendly, high-pressure cleaning solution removes biofouling and debris without harmful AFS Coating, ensuring a smooth, fuel-efficient hull while minimizing environmental impact. Trust us to keep your vessel performing at its best.



RESOLUTION MEPC.378(80) (adopted on 7 July 2023)
2023 GUIDELINES FOR THE CONTROL AND
MANAGEMENT OF SHIPS' BIOFOULING TO
MINIMIZE THE TRANSFER OF INVASIVE AQUATIC
SPECIES

Quick, effective, and sustainable cleaning for optimal vessel performance

Underwater NDT Level 3

At Leos, we understand the importance of maintaining the integrity and safety of underwater assets. Our Non-Destructive Testing (NDT) services are designed to provide accurate and reliable assessments of underwater structures and equipment, helping our clients mitigate risks and prolong the lifespan of their assets.

- Ultrasonic Testing (UT):
- Magnetic Particle Testing (MT) and Dye Penetrant Testing (PT):
- Eddy Current Testing (ET):
- Visual Inspection (VT):



Underwater Welding: Repair and fabrication of underwater structures like pipelines, ships, and offshore rigs.

Underwater Cutting: Precise cutting of metals and materials submerged in water for maintenance, demolition, and construction.





Underwater Survey and Maintenance for Marking Buoys

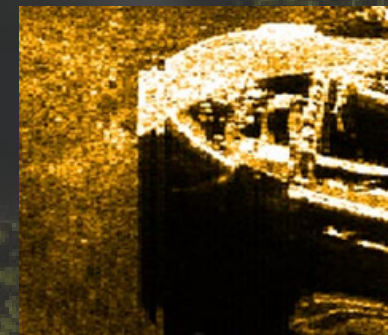
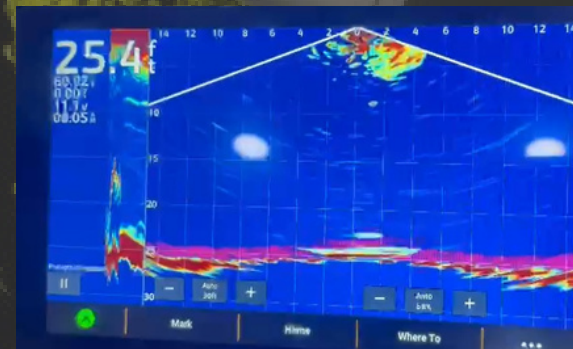
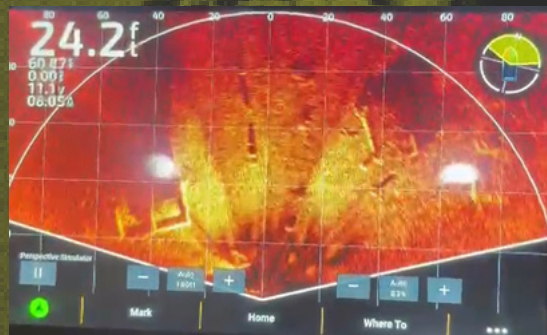
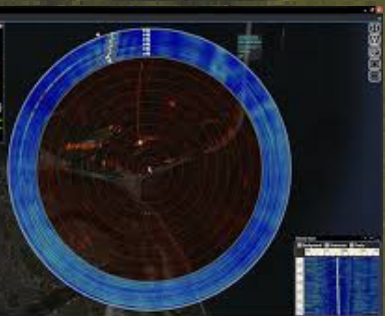
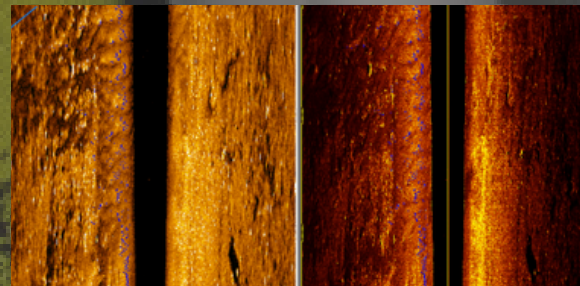
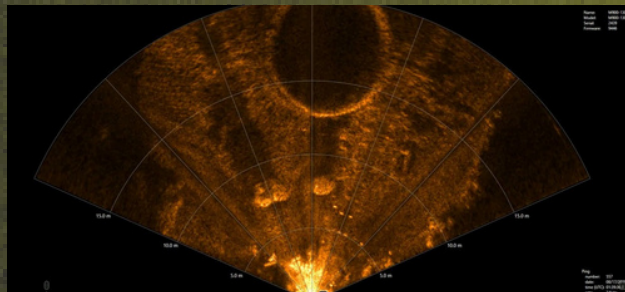
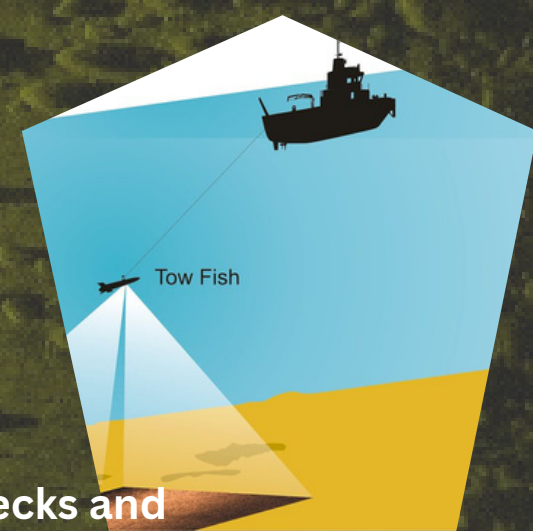
At leos, we recognize the critical role that marking buoys play in marine navigation and resource management. Our underwater survey and maintenance services are tailored to ensure the reliability and functionality of marking buoys, safeguarding navigation routes and underwater assets.

- Buoy Cleaning and Maintenance:
- Buoy Repositioning and Replacement:
- Surface Marker Installation and Maintenance:
- Underwater Inspection and Survey:



Sonar Scanning Services – Precision in Every Depth

- Employ advanced sonar technology to detect and document submerged wrecks and debris, aiding in salvage operations and historical research.
- Subsea Cable and Pipeline Inspection
- Search and Recovery Operations
- Assist in locating and recovering lost equipment or objects from the seafloor, minimizing operational downtime.



MARINE CONSTRUCTION



Service

- CONSTRUCTION OF JETTY BLOCK PLACING
- UNDERWATER CUTTING
- GEOTAXTILE LAYING
- TETRAPODS PLACING & REMOVAL
- DIAMOND SAW CUTTING
- MARINE SALVAGE & WRECK REMOVAL



• ***JETTY BLOCK PLACING***

Our expertise lies in executing precise and strategic placements of jetty blocks. These placements are meticulously designed to withstand wave action, ensure stability, and create safe harbor areas for vessels to berth and unload cargo.

LEOS employs advanced engineering techniques and specialized equipment to ensure the accurate positioning and secure integration of jetty blocks. By adhering to stringent quality standards and employing durable materials, we aim to create long-lasting jetty structures capable of withstanding harsh marine conditions.

The advantages of LEOS's jetty block placement services are manifold. These well-positioned blocks provide essential support for jetties, enabling safe berthing for vessels and ensuring efficient cargo operations. Our tailored solutions focus on creating durable and reliable jetty structures to meet the specific requirements of each project.

LEOS is committed to delivering reliable jetty block placement services that contribute to the safety and functionality of maritime infrastructure. Contact us to explore how our expertise in jetty block placement can enhance the safety and efficiency of your marine operations. Trust LEOS for professional, precise, and tailored jetty block placement solutions essential for constructing resilient and functional jetties.



• ***UNDERWATER CUTTING***

Underwater PILE cutting is the process of cutting through metal structures of a Pipe that require repairs or modifications. This process is commonly used for removing damaged sections of the PILE or other metal components of the PIPES. There are two main types of underwater ship cutting: wet cutting and dry cutting.

Wet cutting involves using a specially designed cutting torch that is capable of cutting through metal underwater. This process is commonly used for cutting through the ship's hull or other metal structures. Dry cutting, on the other hand, involves creating a dry environment around the cutting site using a hyperbaric chamber. Dry cutting is commonly used for precision cutting of the ship's metal components, such as pipes and valves.



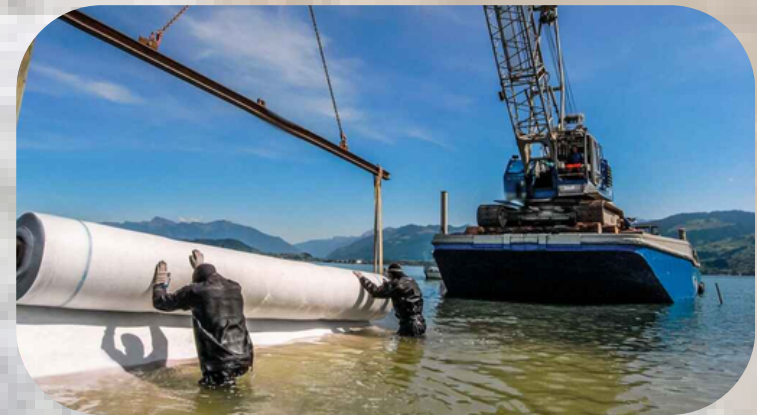
• ***GEOTAXTILE LAYING***

LEOS specializes in the meticulous laying of geotextiles, an essential process in reinforcing and stabilizing various soil structures. Geotextiles are crucial for erosion control, drainage management, and soil stabilization, offering effective solutions in diverse construction and environmental projects.

Geotextile laying involves precise placement of these permeable fabrics to reinforce soils, prevent erosion, and manage water flow. LEOS's expertise lies in strategic geotextile installations, tailored to suit the specific needs of each project, whether it's for road construction, landscaping, or erosion control measures.

Our skilled team employs advanced techniques to ensure accurate and efficient geotextile laying. By utilizing industry-best practices, we aim to enhance soil stability, prevent erosion, and optimize drainage systems. LEOS's focus on precision and quality in geotextile laying contributes to the durability and longevity of soil structures.

LEOS is committed to delivering reliable geotextile laying services that align with your project requirements. Contact us to explore how our specialized geotextile laying solutions can benefit your construction or environmental project. Trust LEOS for precise, professional, and tailored geotextile laying services essential for reinforcing soil structures and managing erosion effectively.



• ***TETRAPODS PLACING***

Tetrapods are concrete structures used in coastal engineering to protect against erosion and wave damage. They are placed to form a porous, interlocking barrier that dissipates wave energy. Tetrapods are typically placed in a layered, interlocking configuration, often with one leg pointing out from the breakwater slope.

specializes in precision TETRAPODS unit placement, a critical aspect of reinforcing coastal defenses and controlling erosion. These concrete armor units play a vital role in fortifying coastal areas against wave impact and are strategically positioned for maximum effectiveness in diverse marine environments.

With a focus on precision and sustainability, LEOS's TETRAPODS placement practices align with responsible coastal management. This approach not only protects natural shorelines but also minimizes erosion risks, ensuring a resilient defense against coastal challenges.



• *DIAMOND SAW CUTTING*

During the maintenance and repair of Seabed oil pipelines which need cut off when they are breakage, and it is very difficult to completion the task with common underwater cutting ways. The experiment of cut seabed oil pipelines has been successfully done with the diamond wire saw which we design and produce independent and come to certain working efficiency. Seabed oil pipelines (which contain concrete balance layer, polyethylene rot-proof layer, polyurethane thermal retardation layer and steel pipe) is a kinds of complex material. For cutting complex material and materials which have irregular form with diamond wire saw is a perfect technique. The paper gives an introduction of constitution and principle of operation about diamond bead wire saw. The experiments of the diamond wire saw for cutting the seabed oil pipelines have finished. We have got all of the information and relation about the technical parameters which contain feed rate override and cutting force, cutting force and cutting speed, the wear rate of diamond bead wire and the feed rate override, the wear rate of diamond bead wire and the cutting speed through analysis and treat experiment records, and create a mathematic mode of cutting force with regression orthogonal experiment. The conclusion that application the diamond wire saw for cutting the seabed oil pipelines is practical and beneficial ways especially in underwater circumstance and special construct condition of seabed oil pipelines.



• **MARINE SALVAGE & WRECK REMOVAL**

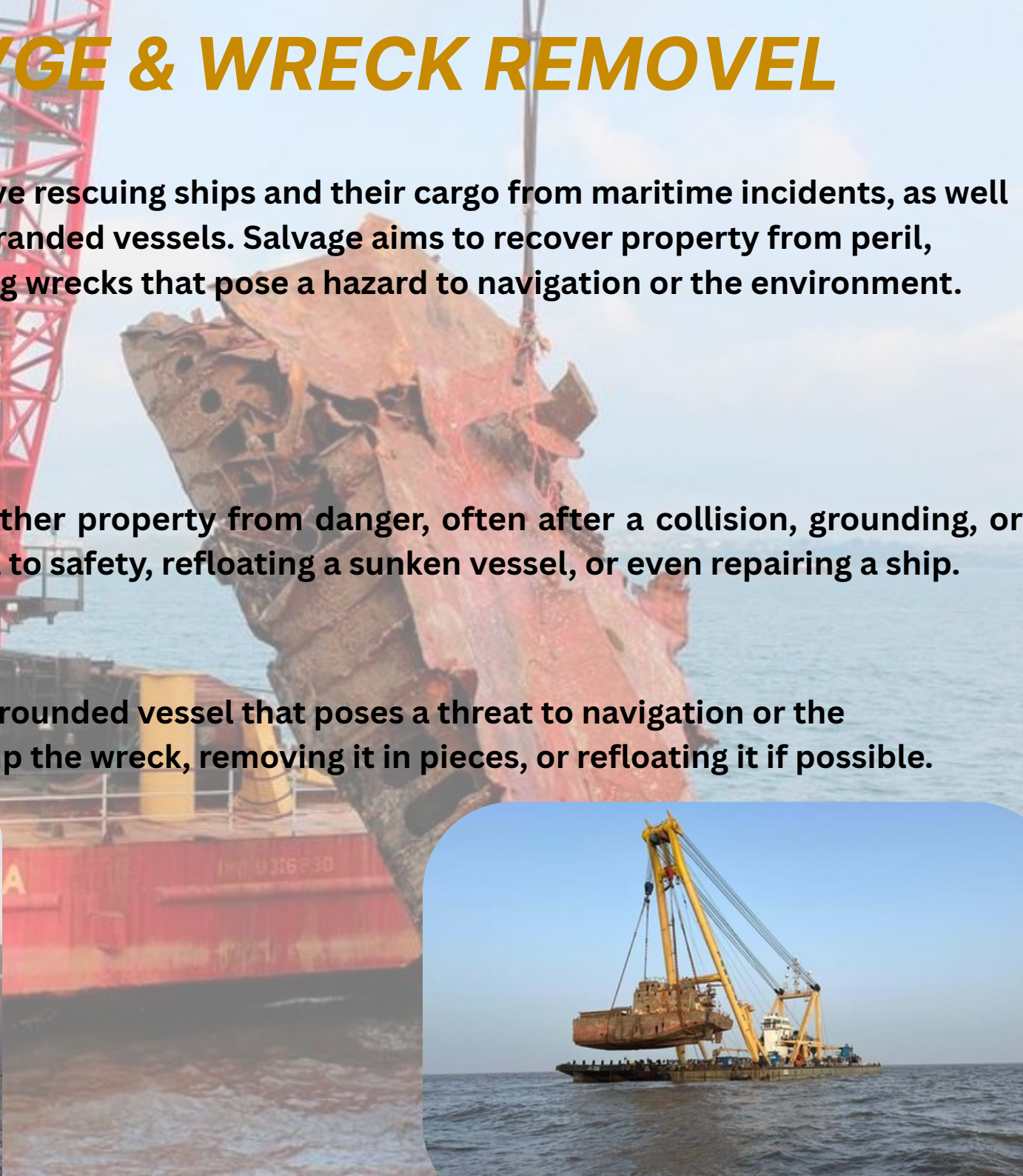
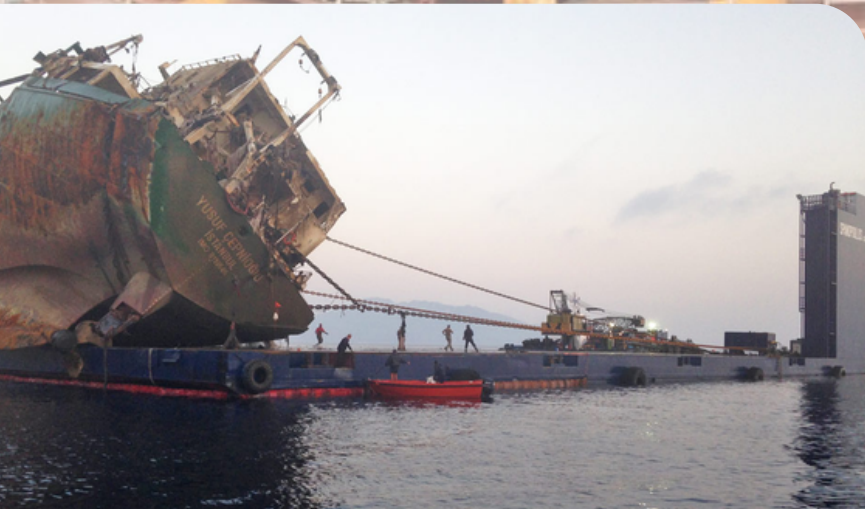
Marine salvage and wreck removal involve rescuing ships and their cargo from maritime incidents, as well as clearing up hazards from sunken or stranded vessels. Salvage aims to recover property from peril, while wreck removal focuses on removing wrecks that pose a hazard to navigation or the environment.

Salvage:

Involves rescuing a ship, its cargo, or other property from danger, often after a collision, grounding, or sinking. This can include towing a vessel to safety, refloating a sunken vessel, or even repairing a ship.

Wreck Removal:

Focuses on the removal of a sunken or grounded vessel that poses a threat to navigation or the environment. This may involve cutting up the wreck, removing it in pieces, or refloating it if possible.



• ON SITE RESCUE SERVICE

1. 24/7 Emergency Response

Available around the clock, ready to assist during any emergency, no matter the time or location.

2. Highly Trained Professionals

Our team is made up of certified and experienced rescue personnel, ensuring the highest level of expertise and safety.

3. Fast and Efficient Service

We prioritize quick response times to minimize risk and deliver fast assistance during emergencies.

4. Wide Range of Rescue Services

Offering services such as water rescue, fire rescue, medical evacuation, search and rescue, and more.



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