

# EFFICIENT SOLUTIONS FOR SLOP TREATMENT

AT ESMIL PROCESS SYSTEMS, WE TAKE PRIDE IN OUR CUTTING-EDGE SOLUTIONS FOR INDUSTRIAL EFFLUENT TREATMENT, SUCH AS SLOPS TREATMENT OFFSHORE AND ONSHORE. WITH A LEGACY OF SUCCESSFUL PROJECTS AND A COMMITMENT TO INNOVATION, OUR PORTFOLIO REFLECTS OUR DEDICATION TO PROVIDING EFFICIENT, RELIABLE, AND ENVIRONMENTALLY RESPONSIBLE SOLUTIONS.

## ADDRESSING THE CHALLENGE

Slop oil, a combination of crude and processed oil sourced from storage tanks, pipes, washings, wastewater systems, etc. presents a formidable environmental challenge. With slops containing up to 15% fat, oil, and grease (FOG), the imperative lies in transporting them to the shore for further utilisation. Conventional practices, such as burial in lagoons, have proven ecologically harmful, resulting in enduring damage to ecosystems. Onshore treatment or utilisation by specialised companies introduces transporting complexities, high costs, and the necessity for locally tailored services in the slop treatment process. To meet these challenges head-on, we offer a robust alternative: offshore treatment incorporating a centrifuge decanter, where the treated effluent contains 500-10,000 ppm, coupled with meticulous chemical treatment and the dissolved air flotation (DAF). This comprehensive treatment results in water of exceptional quality, meeting standards that allow for safe discharge into the sea. Our solution not only addresses environmental concerns but also ensures that the treated water aligns with stringent quality requirements.

## KEY FEATURES OF OUR SLOP TREATMENT SYSTEM:

### ADVANCED TECHNOLOGY INTEGRATION

Utilising a combination of advanced Esmil Pipe Flocculation and Dissolved Air Flotation, our system stands at the forefront of technology, ensuring optimal separation and treatment of contaminants.

### COMPLIANCE WITH SAFETY STANDARDS

Our offshore solutions adhere strictly to ATEX and DNV requirements, guaranteeing the highest safety standards for offshore applications.

### HIGH EFFICIENCY IN FOG REDUCTION

Achieving remarkable FOG reduction to 0.1-0.4 ppm after thorough mechanical pre-treatment, Esmil system allows for the discharge of treated water into the sea, sewage or other courses, meeting regulatory compliance for various scenarios.

### QUALITY CONTROL AND ASSURANCE

We uphold the highest standards of quality control throughout the fabrication process, ensuring that our systems are constructed using the best materials and equipment.

### CHEMICAL TREATMENT EXPERTISE

Our experienced chemical engineers play a pivotal role in selecting the most effective chemical treatment, balancing consumption and efficiency to enhance the overall performance of our systems.

## AUTOMATION AND PROCESS CONTROL

The automation level and control systems of our solutions are adjustable to meet specific needs, featuring remote control and updates, as well as installation of cameras and manholes for enhanced process control. Together with online notification system working on different platforms, it achieves high process stability and safety.

## EASY MAINTENANCE AND SERVICING

Our designers have prioritised ease of maintenance with thoughtfully placed manholes, hatches, doors, and windows, allowing for simple access and control during routine servicing.

## CONTINUED SUCCESS AND FUTURE PROJECTS

Esmil Process Systems uses experience gain on previous slop treatment projects as well as carry out pilot and laboratory tests to be sure we utilise the most effective processes. As we continue to evolve, we are actively engaged in new projects, incorporating the latest advancements and industry best practices to address the evolving needs of our clients. To be sure our customer always gets the best performance, we provide commissioning and start-up, after-sale servicing and support.

## ESMIL PILOT TRIALS AND CONTAINERISED FULL-SCALE SYSTEM



*At Esmil Process Systems, we are not just providing solutions; we are shaping the future of industrial effluent treatment.*

**Contact us today to discover how our expertise can elevate your slops treatment processes.**