

*The experts in offshore grouting*

## Company Overview



## Who We Are & What We Do

Ambico FoundOcean Grouting Services is a joint venture that brings together the fabrication and project management expertise of Ambico Group, and the engineering and offshore grouting experience and capabilities of FoundOcean.

We provide the Indian oil and gas industry with greenfield installation grouting services and brownfield life extension solutions for offshore and subsea structures and assets. We also support the global standalone grouting activities of FoundOcean through the fabrication of flexible formwork products for pipeline support and stabilization.

With a combined experience of over 75 years, and an impeccable offshore track record, the synergy of the two partners has been the key driver of success for our company since its inception.

Dedicated to providing the highest quality products and services, Ambico FoundOcean uses its own custom designed grouting equipment, and all products and procedures are developed in-house by our qualified engineers.

Our diverse and integrated teams are experts in their fields and have a track record of safely and efficiently executing time-critical complex projects in the most challenging offshore environments.

With our combined technologies and industry-firsts, we consistently exceed our clients' expectations through pioneering innovations in materials and grout delivery systems.

We understand that our clients' projects are very often unique, and that's why we go further than just providing offshore services; we ensure our clients' needs are met by delivering the necessary engineered solutions.





## Products and Services



**We hold the world record for the deepest deployed fabric formworks at 1,500m**

## Pipeline Stabilization and Protection

Fabric Formworks, or grout bags, are manufactured from a flexible, high strength woven fabric and are used to support, protect and stabilize subsea pipelines, cables and structures. We have an impressive track record of engineering solutions with fabric formworks, whether it is to correct pipeline or cable freespans, stabilize jackets effected by scour or provide pipeline crossover tunnel supports. Fabric formworks can deliver a rapid, safe and cost-effective custom solution to a wide range of subsea protection challenges.

MassivMesh is a flexible concrete mattress that is capable of providing a high quality, low-cost solution for some of the other challenges faced by subsea pipelines. It can be used for scour prevention and crossover support, to stabilize pipelines in areas that are susceptible to high currents, as well as any number of other specialist applications.

Our offshore experience means that all formwork and mattress designs take account of the practical aspects of installation.

Our wide range of **ISO 9001 certified** formworks and mattresses are fabricated using the highest quality materials. They are engineered in-house, and although a standard range is available, most orders are custom designed for individual project requirements.

**We provide a single source for the design, manufacture and installation of all types of high quality and cost-effective formworks and concrete mattresses.**

## Structural Grouting Services

Structural pile grouting is the process of injecting cement grout into the annulus between the foundation pile and the structure being fixed to the seabed.

We provide grouting services for the full range of structural pile configurations, including: skirt piles, main leg piles, balanced pressure grouting and insert pile grouting. We can also advise on the design of grouting pipework systems and grout seals.

All our procedures and equipment have been tried, tested and developed over the years, with our involvement in structural pile grouting dating back to the 1960s. Since then, we have successfully grouted several thousand structural connections in all the offshore energy producing areas of the world, making the Ambico FoundOcean joint venture the world's leading dedicated offshore construction grouting subcontractor for oil and gas foundations.

**Ambico FoundOcean mobilizes 100% back up of all mixer technology components to ensure uninterrupted grouting operations.**

Our successful and efficient offshore operations result from a wide range of skills and equipment including:

- Detailed quality assurance and control procedures
- Well equipped offshore testing laboratories
- State-of-the-art grout mixing equipment
- High capacity grout pumps to deliver grout to the structure
- A high capacity cement silo fleet
- ROV operated subsea grout connection systems
- ROV deployed grout density monitoring



**Innovative mixing technology**

The Recirculating Jet Mixer (RJM) is unique to FoundOcean. It has been designed by the in-house engineering team for maximum efficiency, and achieves a grouting capacity of up to 25m<sup>3</sup> per hour. FoundOcean is constantly innovating to reduce the size of the grout mixing spread whilst increasing output. Ambico FoundOcean has RJMs based in South East Asia, ready for rapid and cost-effective mobilization.



## Inspection, Repair and Maintenance



**We are your trusted partner for life extension solutions**

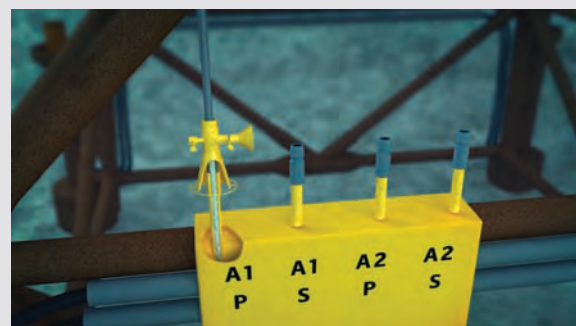
Repairs and strengthening for offshore structures and pipelines may be required for a number of reasons, the most common include fatigue, collision damage, and amendments to certification regulations. Planned changes, such as the installation of new process modules, may increase topside loads, and require further stiffening or bracing of the substructure.

Ambico FoundOcean has extensive experience in structural strengthening schemes with numerous projects completed worldwide. Contracts have included grouted clamps to strengthen, connect and repair tubulars and node joints on jacket structures, as well as their member infilling both by diver and ROV. Other repair activities include resin repairs to concrete structures and major pipeline repairs using grouted clamps and formworks.

**Ambico FoundOcean designs and manufactures its own range of standard and custom-engineered clamps for pipelines and jacket members.**

### Subsea ROV Grout Connectors

These unique connectors are specifically designed by FoundOcean for underwater connection of grout lines. For over 20 years, our connectors have been used worldwide in various water depths to reduce onshore fabrication and offshore installation costs by eliminating the need to install and remove temporary pipework. This type of ROV connection system can be used for all grout-led operations.



## Manufacturing

In 2012, Ambico FoundOcean opened a 1,300m<sup>2</sup> world-class manufacturing facility for the fabrication of our extensive range of fabric formworks. Conveniently located on the outskirts of Mumbai city, it boasts a workforce of more than 35 skilled personnel, who deliver high quality hand machined formworks in both standard and custom sizes.

The formworks are made from polypropylene fabrics, with rigorously tested and quality controlled seams.

Aside from manufacturing the bags, the facility is also home to the wide range of specialist equipment that we use for our offshore operations.

Locally available materials, equipment, and personnel provide our clients with the flexibility and convenience they demand, while also substantially reducing lead-time and costs.

The facility is well equipped to meet the demands of the complex and challenging projects the company undertakes.



**Ambico FoundOcean supplies grout bags all over the world, and provided close to 1,500 fill-and-remove formworks that were used in the salvage of the Costa Concordia cruise liner off the coast of Italy.**

## Quality, Health & Safety

The disciplines of Quality, Health and Safety are an integral part of the management function at Ambico FoundOcean.

We are dedicated to providing quality products and services while at the same time maintaining the highest standards for health and safety. All of our personnel are experienced or supervised in safe working practices and are familiar with the necessary safety precautions and procedures.

Our Quality Management System is ISO 9001 certified and covers the manufacture and supply of all our fabric formworks and concrete mattresses. Clients can trust that we have implemented the necessary internal processes to meet the rigorous requirements of the industry and that material and product quality checks are conducted at every step of the assembly process.



FoundOcean is also DNV audited and holds ISO 9001 and OHSAS 18001 accreditations.



## Contact Us

#701-702 Shri Sai Corporate Park, Next to Polaris Tower,  
Opp. Laxmi Nagar Industrial Estate, Goregaon Link Rd.,  
Goregaon (West), Mumbai – 400 090, India.

Tel: +91 22 2876 6641 / 42  
Fax: +91 22 2876 9473  
Email: [info@ambicoindia.com](mailto:info@ambicoindia.com)

[www.ambicofoundocean.com](http://www.ambicofoundocean.com)

