



# Subsea Engineering Services

Offering cutting-edge subsea engineering services, ensuring robust, efficient underwater solutions tailored to complex marine challenges.



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## About Us

### Subsea Engineering Services

CCC Underwater Engineering was established in 2022 to cater to the growing offshore industry in Saudi Arabia & become a market leader providing enhanced services covering comprehensive operations. The company ethos has been to recognize client needs and determinedly develop quality products and services to fulfil these requirements, in addition to maintaining the highest international standards of health, safety, quality and environmental protection during any type of performed operation.

Company

# Our Principles

## Our Vision

*“Pioneering innovation and setting industry benchmarks to become a global leader in offshore construction solutions.”*

## Our Mission

*“Delivering excellence in offshore construction services while prioritizing safety, quality, and environmental sustainability.”*



Company

# Core Values

## Integrity

We uphold honesty and transparency in all our dealings, fostering trust and credibility with clients.

Safety is our top priority; we adhere to stringent safety protocols to ensure the well-being.

## Safety

## Quality

We are committed to delivering excellence in all aspects of our work, maintaining high standards

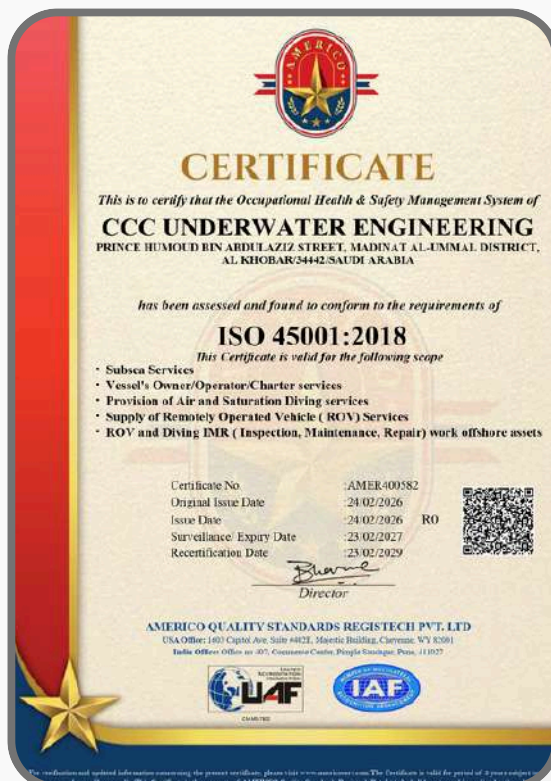
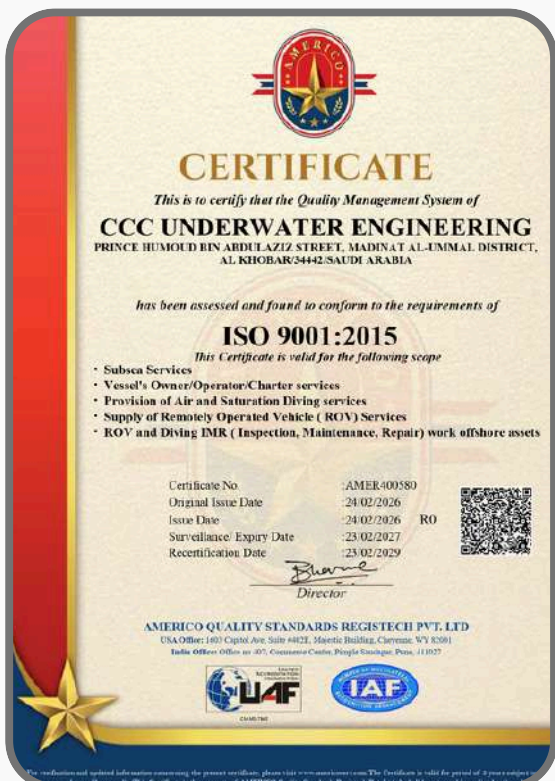
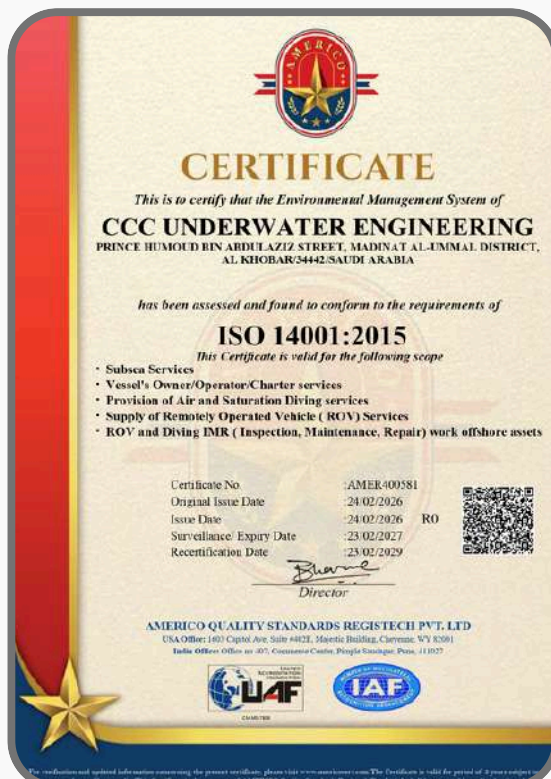
We embrace innovation to drive continuous improvement and offer cutting-edge solutions.

## Innovation

Triple Assurance

# ISO Certified

CCC Underwater Engineering, based in Al Khobar, Saudi Arabia, proudly holds ISO 45001:2018, ISO 14001:2015, & ISO 9001:2015 certifications. These accolades affirm our commitment to occupational health & safety, environmental management, and quality standards, ensuring top-tier services in subsea operations & diving services.



## Company Services

# EPC Contractor Support

## Unlock Your Offshore Project Potential

CCC Underwater Engineering has a diverse business model which benefits our EPC clients, by providing options for either an individual services (i.e. diving, ROV, vessel charter, cable laying, etc.) or a complete solution where CCC Underwater Engineering will undertake a complete scope using company owned and operated equipment.



## Scope of Work

The scopes in which CCC Underwater Engineering support EPC clients during the life of an offshore project include, but are not limited to:

- **Mobilization & Readiness:** We ensure seamless project initiation by handling mobilization and readiness tasks, setting the stage for a successful venture.
- **Pre-Lay Surveys (ROV & Divers):** Our advanced survey techniques using ROVs and divers guarantee a thorough assessment of seabed conditions before installation
- **Pre-Lay Support/Stabilization Installation Operations:** Deploying sleepers and mattresses is just one aspect of our comprehensive pre-lay support services, ensuring stability for subsequent installation operations.



- **Subsea Installations:** Expertly execute precise installations for risers, J-Tubes, and more.
- **Subsea Rectification:** Address challenges post-installation with free span corrections and grout bags.
- **ROV Surveys:** Conduct meticulous surveys for accurate project documentation and compliance.

# Valve Skids and Tie-In's

## Company Services

## Subsea Installations Operations

CCC Underwater Engineering offers diverse options for delivering spools efficiently and economically:

- Choose between delivering spools on barges/supply vessels or wet storing them pre-DSV arrival.
- Spool sizes range from 4" to 48" with lengths up to 82 meters.
- Spools over 45 meters are lifted from cargo barges using two cranes for efficient handling.

### J-Tube, Risers & Clamps

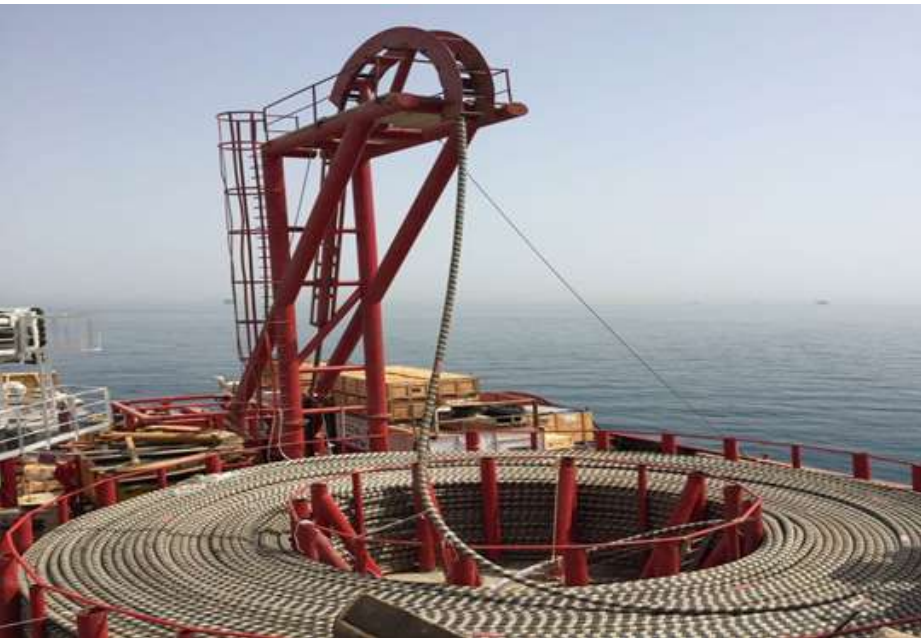
CCC Underwater Engineering offers design, fabrication, and construction services for J-tubes, Risers, and associated clamps. Clients can choose

- Installation of J-tubes/Risers in single sections or flanged sections for flexibility.
- Utilization of two cranes onboard our vessels, eliminating the need for large crane-equipped barges.
- Installation of Risers & J-tubes up to 70 meters long in a single bundle for efficient deployment.



Company Services

# Subsea Infrastructure Installation



## Shore Pulling Operations

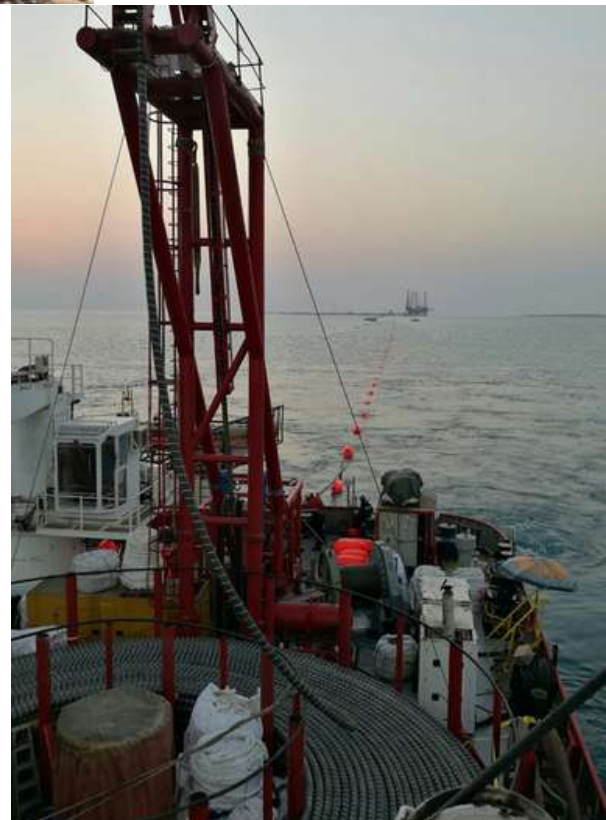
CCC Underwater Engineering offers cable and flexible shore pull services for laying and installing cables or flexibles between onshore locations or islands.

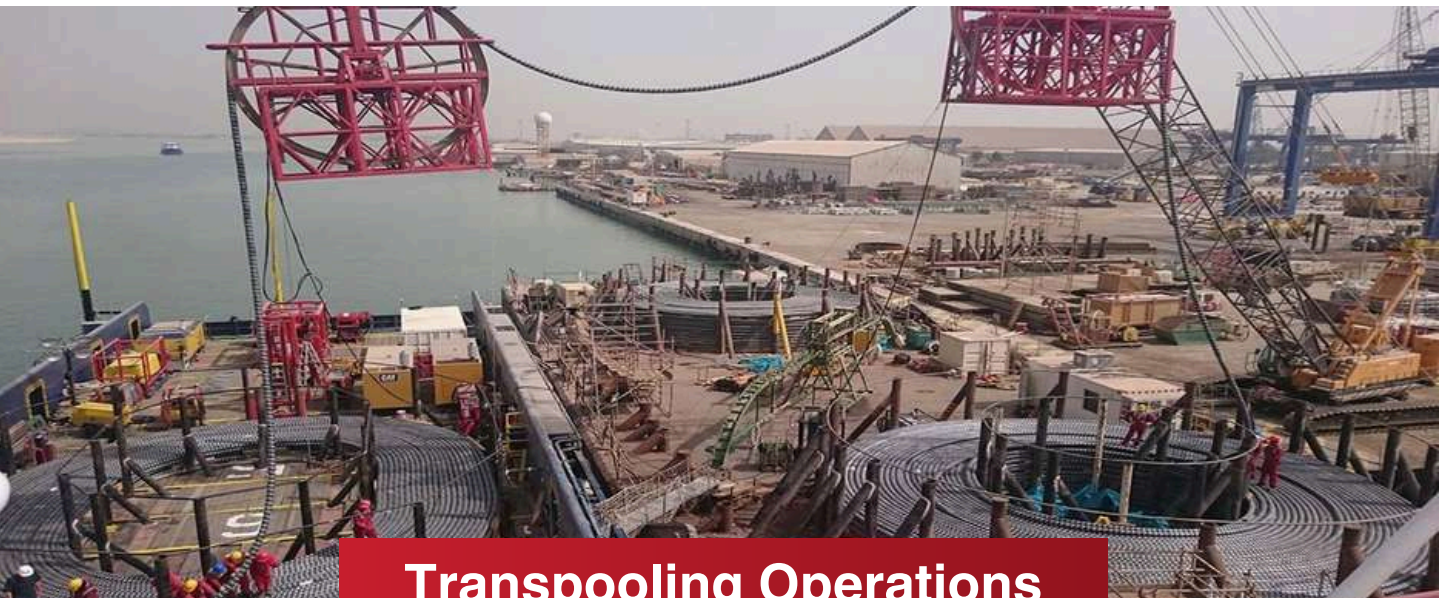
## Cable, Umbilicals and Flexible Pipelines

CCC Underwater Engineering has highly experienced specialized engineers with various spread of equipment to provide clients umbilical and services for submarine cable, flexible installation, testing, termination, repair and maintenance (IRM).

With our expansive fleet of equipment and experienced back deck personnel we can offer various methods for cable / flexible handling, laying and installation, either by collection on to a reel which will be installed on a skid and driven by either Hub drive or Under Rollers (Reel weight up to 1000 tonnes).

Alliteratively, transpool submarine cables on to a turn table / fixed basket on vessel's deck.





## Transpooling Operations

CCC Underwater Engineering provides comprehensive cable transpooling services at client-designated locations. With specialized facilities, advanced equipment, and experienced personnel, they ensure efficient and seamless operations. This capability allows them to manage cable transfers effectively, supporting various underwater projects and installations. CCC Underwater Engineering's versatile approach enables tailored solutions to meet specific client needs, enhancing reliability and performance in underwater cable management.

### Key points of the Service

**Facilities:** CCC Underwater Engineering is specialized facilities to handle cable transpooling operations effectively.

**Equipment:** They are equipped with advanced tools and machinery specifically designed for cable transpooling tasks, ensuring efficiency and safety.

**Personnel Expertise:** The company employs skilled personnel with experience in underwater operations, enhancing the reliability and quality of their services.

**Flexibility:** CCC Underwater Engineering can conduct cable transpooling either at client-specified locations or at their own dedicated jetty, providing flexibility and convenience to clients.

**Tailored Solutions:** They offer customized solutions to meet the unique requirements of each project, optimizing the cable management process.

**Project Management:** The company has a structured approach to project management, ensuring timelines are met and operations run smoothly from start to finish.

# Various Offshore Operations

## Pipeline / Riser Demolition and Recovery

CCC Underwater Engineering specializes in safely demolishing and recovering underwater pipelines and risers, ensuring efficient removal and environmentally responsible disposal. Their expertise enables the effective management of underwater infrastructure, contributing to project success and environmental stewardship.



### Pipeline Repair

Skilled in underwater pipeline repair, utilizing advanced techniques and equipment to address damages and restore functionality.

### Pipeline Pre-commissioning & Hydro Testing

Conducts pre-commissioning activities and hydro testing of pipelines to verify integrity and performance before operation.

### SPM Installation

Specializes in the installation of Single Point Mooring (SPM) systems, critical for offshore loading and unloading operations.

### Hook Up & Topside Services

Offers hook-up services for connecting underwater infrastructure to topside facilities, ensuring seamless integration and functionality.





Company Services

## **Subsea Intervention Operation**

### **Concrete Matress Installation**

CCC Underwater Engineering not only performs grouting operations but also has the expertise to install link-lock mattresses on existing subsea infrastructure. This installation serves to enhance stability and protection. The company possesses and operates deployment frames specifically designed for link-lock mattresses, which can be utilized with either ROV or divers.

### **Concrete Sleeper Installation**

CCC Underwater Engineering is proficient in installing concrete sleepers weighing between 10Te and 75Te. These installation operations can be carried out using either ROV or divers from vessels. Typically, concrete sleepers are installed before pipe laying operations at existing crossings along the designated route.

Company Services

# Subsea Intervention Operation



## Grouting Equipment

CCC Underwater Engineering possesses and operates multiple complete spreads dedicated to conducting grouting operations in support of various subsea activities, including:

- Addressing free span issues using grout bags or mattresses.
- Enhancing pipeline stability using mattresses.



Company Services

# Offshore Survey Operations



## Survey Services

CCC Underwater Engineering utilizes a range of survey equipment to offer surface and sub-surface positioning for offshore operations. They provide inspection, touchdown monitoring, and As-laid/As-built survey services for new or existing cables, pipelines, and platforms.

All inspection operations incorporate digital recording technologies. Clients receive all recorded information through a synchronized viewer on an external hard drive.





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