

Rotech Case Study

TRS2



Pipeline Post-Lay Trenching & Backfill - Offshore KSA



Project Overview

In 2018 Rotech Subsea was awarded a contract by SAIPEM to support a Pipeline Post-Lay Trenching and Backfill Project. The scope of work involved the trenching and backfilling of two 42-inch subsea pipelines laid in shallow water, approximately 10 meters in depth. Each pipeline required burial to a specification of 1 meter Top of Pipe (ToP) below the natural seabed level.

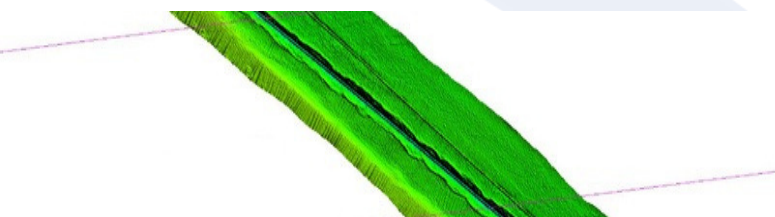
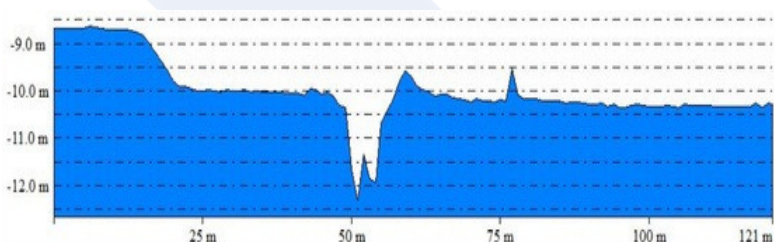
The project formed a critical phase in the overall development, demanding precision trenching and controlled backfilling to ensure pipeline stability and long-term integrity. To meet the project's stringent technical requirements and tight schedule, SAIPEM selected Rotech Subsea's TRS2 Controlled Flow Excavation (CFE) tool.

The Rotech Solution

To deliver the project efficiently, Rotech mobilised its TRS2 aboard a DP2-class Multi-Purpose Support Vessel. It was deployed to lower both 42-inch pipelines to the required one-metre ToP depth and subsequently used for controlled backfilling. The system performed consistently, enabling smooth progress and ensuring the operation remained on schedule.

Results

The trenching and backfilling operations were completed successfully, with the TRS2 achieving an average progress rate of three metres per minute. The campaign was delivered without unplanned downtime and met the burial specification with precision. This strong performance enhanced project efficiency, reduced vessel time on site, and delivered notable cost savings for the client.



Project Information

Client: SAIPEM

Scope: Pipeline Post-Lay Trenching & Backfill

Water Depth: 10m

Soils: Soft

Vessel: DP2 MultiPurpose Support Vessel (MPSV)

This project reinforced Rotech Subsea's reputation for reliable and high-performance subsea excavation solutions, adding to the growing track record of successful TRS2 deployments.