



SIKA AT WORK

GROUTING OF PILE SLEEVES FOR ZAWTIKA 1B IN MYANMAR

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



GROUTING OF PILE SLEEVES FOR ZAWTIKA 1B IN MYANMAR



PROJECT DESCRIPTION

In August 2015, Sika carried out offshore grouting services for the installation of the Zawtika 1B wellhead platforms offshore Myanmar. The project involved pile sleeve annulus grouting for four wellhead platforms (WP4), each comprising twelve skirt piles arranged in four clusters. Each cluster consisted of two skirt piles without grippers (P1–P8) and one skirt pile with grippers (P9–P12). The offshore grouting works formed part of the jacket installation procedure and were executed under constrained offshore working conditions.

Sika was engaged by Petro Thailand Exploration and Production (PTTEP) for China Oilfield Services Engineering Co. (COOEC) to provide materials, equipment, offshore personnel, and project management support for the installation campaign.

Project name: Grouting of Pile Sleeves for Zawtika 1B
Location: Offshore Myanmar
Year: 2015
Customer: PEETP / COOEC
Application: Jacket installation
Product: SikaGrout®-9610 + OPC

PROJECT REQUIREMENTS

The project required the reliable grouting of pile sleeve annuli for four wellhead platforms during offshore installation operations. The grouting system needed to ensure controlled placement, consistent material performance, and efficient offshore execution across multiple structures. A key challenge was the limited available deck space on the work barge, which restricted the operation to four silos. This required careful coordination of material handling and offshore logistics throughout the grouting campaign. During operations, OPC material had to be pneumatically transferred from the anchor handling tug (AHT) vessel to the silos located on the work barge using an air compressor system.

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In addition, the offshore scope required dedicated QA/QC procedures, project reporting, and qualified offshore personnel to support continuous installation activities.

SIKA SOLUTIONS

Sika supplied OPC Type II cement together with a predecessor of SikaGrout®-9610, a high-performance cementitious grout designed for offshore structural grouting applications.

The offshore scope included the provision of grouting equipment, silos, offshore laboratory facilities, consumables, and experienced offshore grouting personnel. Sika also delivered project management support covering reporting, QA/QC, and offshore execution coordination.

Pile sleeve annulus grouting for all four wellhead platforms was carried out from the work barge using a combination of pre-installed grout lines integrated into the platform structure and flexible grout hoses. Planetary mixers equipped with screw conveyor systems were deployed to ensure efficient and consistent grout mixing throughout the operation.

Contingency provisions were also implemented, including the availability of high-performance grout material for potential bottom plug operations if required during installation.

CUSTOMER BENEFITS

Despite the restricted offshore working area and complex material handling requirements, Sika successfully completed the grouting operations safely and efficiently across all four platforms.

The use of planetary mixing systems enabled reliable grout quality and improved mixing efficiency throughout the campaign, while the integrated grouting setup supported controlled placement and smooth offshore execution.