



SIKA AT WORK

GROUTING SERVICES FOR ADDITIONAL DEVELOPMENT OF VASAI EAST PROJECT

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



GROUTING SERVICES FOR ADDITIONAL DEVELOPMENT OF VASAI EAST PROJECT



PROJECT DESCRIPTION

In 2016, Sika was engaged by L&T Sapura Offshore Private Limited to provide offshore grouting services on behalf of Oil and Natural Gas Corporation Limited. Sika completed offshore grouting works for the additional development phase of the Vasai East Field, located within the Heera-Panna-Bassein block offshore Mumbai, India. The project involved the installation of two new four-legged fixed jacket platforms, VSEB and VSEC, together with pipeline crossing supports and free-span rectification works.

The offshore campaign included grouting works for jacket main legs, skirt pile sleeves, and pipeline support structures, executed subsea in water depths ranging from approximately 42 to 54 meters.

Project name: Grouting Services for Additional Development of Vasai East Project
Location: Vasai East Field, Heera-Panna-Bassein Block, Offshore Mumbai, India
Year: 2016
Customer: L&T Sapura Offshore Private Limited
Application: Jacket installation
Product: SikaGrout®-9610

PROJECT REQUIREMENTS

The project required offshore grouting services for the installation of jacket structures and associated subsea pipeline support systems under demanding offshore conditions. The scope included grouting of the main legs and skirt pile sleeves for the VSEB and VSEC jackets, as well as grouting works associated with pipeline crossing supports and free-span rectification.

The offshore installation activities were carried out at water depths between 42 and 54 meters, requiring coordinated subsea operations supported by a dedicated dive team and the Dive Support Vessel (DSV) SK900.

Any product name or reference reflects the Sika product name at the time of creation of this document and may differ from the product name or reference during past events.

Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.

In addition to offshore execution, the project required full pre-installation and post-installation support, including engineering documentation, QA/QC reporting, offshore laboratory services, and independent compressive strength testing.

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spreads, laboratory facilities, engineering support, and experienced offshore personnel.

The scope included the preparation of front-end engineering documentation, supply and mobilization of grouting materials, deployment of offshore grouting equipment and laboratories, and provision of qualified grouting supervisors and technicians. Engineering support was also provided for the pipeline crossing support and free-span rectification works.

Grouting operations were executed for the main legs and skirt pile sleeves of the VSEB and VSEC jacket structures at water depths of approximately 42.2 m and 46.5 m. In addition, pipeline crossing support installations and free-span rectification works were also carried out at depths of approximately 42.2 m and 53.6 m.

Comprehensive QA/QC procedures were implemented throughout the campaign, including on-site quality monitoring reports, daily operation reporting, and both on-site and third-party compressive strength testing of the grout materials.

CUSTOMER BENEFITS

The high early-strength performance of Sika's cementitious grouting solution enabled accelerated installation sequencing offshore. Rapid compressive strength development allowed the jacket topsides to be installed less than 18 hours after completion of jacket leg and skirt pile sleeve grouting operations, reducing offshore vessel time and supporting overall project efficiency.

For the pipeline support works, the rapid setting characteristics of the grout enabled the raised pipeline sections to be lowered into position within approximately six hours following grouting completion. This significantly accelerated the support bag installation process at the pipeline crossings.



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