



# SIKA AT WORK

## PIPELINE CROSSINGS GROUTING SERVICES FOR MUMBAI HIGH SOUTH REDEVELOPMENT PHASE III

OFFSHORE & MARINE CONSTRUCTION  
CONVENTIONAL ENERGY

BUILDING TRUST



# PIPELINE CROSSINGS GROUTING SERVICES FOR MUMBAI HIGH SOUTH REDEVELOPMENT PHASE III



## PROJECT DESCRIPTION

Between November 2016 and February 2017, Sika completed offshore grouting works for pipeline crossings and free-span support structures as part of the Mumbai High South Redevelopment Phase III (MHSRD-III) project, offshore India.

The works were carried out within the Mumbai High South Field and formed part of the broader offshore redevelopment programme led by Oil and Natural Gas Corporation Limited. Sika was contracted by Kreutz Subsea Pte Ltd to provide offshore grouting materials, equipment, and execution services for the installation of pipeline crossing supports and free-span rectification systems. The offshore scope included grout bag installation and grouting works executed from the Kreuz Installer (KI) installation vessel.

Project name: Pipeline Crossings Grouting Services for Mumbai High South Redevelopment Phase III  
Location: Mumbai High South Field, India  
Year: 2016-17  
Customer: Kreutz Subsea Pte Ltd  
Application: Installation of pipeline crossings  
Product: SikaGrout®-9610

## PROJECT REQUIREMENTS

The project required offshore grouting services for pipeline crossing supports and free-span rectification works operating under demanding subsea conditions. The grouting solution needed to provide excellent flowability over long pumping distances together with rapid strength development to support efficient offshore installation sequencing.

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.



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In addition to material supply, the scope required preparation of detailed grouting procedures, mobilization of offshore-certified grouting equipment and storage systems, provision of offshore grouting crews, and implementation of QA/QC reporting and project closeout documentation.

The offshore execution methodology also required compatibility with grout bag installation systems and support operations conducted from the Kreuz Installer vessel.

## SIKA SOLUTIONS

Sika supplied SikaGrout®-9610, a high-performance cementitious grout engineered for offshore grouting applications requiring high flow performance, rapid strength gain, and reliable offshore placement characteristics.

The scope included preparation of grouting procedures, supply of grout materials and lubrication mixes, mobilization of mixing and pumping equipment, provision of offshore-certified storage silos, and deployment of experienced offshore grouting personnel.

Sika utilized its custom-built offshore grouting spread to execute the crossing support and grout bag installation works efficiently under offshore operating conditions. The installation activities were carried out aboard the KI vessel, enabling controlled placement of the grout materials during subsea support installation operations.

Comprehensive on-site quality monitoring, reporting, and project closeout documentation were also provided throughout the offshore campaign.

## CUSTOMER BENEFITS

SikaGrout®-9610 was specifically selected for its ability to deliver high flow performance over long pumping distances while achieving rapid early strength development exceeding 50 MPa within 24 hours at 25°C. These properties enabled efficient offshore installation sequencing and reduced waiting times during support installation operations.

The use of custom-built offshore grouting equipment and certified storage systems ensured reliable execution and consistent grout quality throughout the project.

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