



SIKA AT WORK

GROUTING SERVICES FOR JACKET LEG MHSRD-III

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



GROUTING SERVICES FOR JACKET LEG MHSRD-III



PROJECT DESCRIPTION

Between December 2016 and January 2017, Sika carried out offshore skirt pile sleeve grouting services for three new wellhead platforms as part of the Mumbai High South Redevelopment Phase III (MHSRD-III) project, offshore India.

The grouting works were performed for the RS-18, RS-20, and RS-21 platforms located within the Mumbai High South Field in water depths approaching 80 meters. Sika was engaged by SapuraKencana TL Offshore Sdn Bhd on behalf of Oil and Natural Gas Corporation Limited to provide offshore grouting services, equipment, materials, and offshore personnel for the installation campaign.

The scope formed part of the jacket installation activities for the redevelopment of the offshore field infrastructure.

Project name: Grouting Services for Jacket Leg MHSRD-III
Location: Mumbai High South Field, India
Year: 2016-17
Customer: SapuraKencana TL Offshore Sdn Bhd
Application: Jacket installation
Product: SikaGrout®-9610

PROJECT REQUIREMENTS

The project required skirt pile sleeve annulus grouting for three offshore wellhead platforms installed subsea at water depths between approximately 77 and 82 meters. The grouting solution needed to deliver reliable placement, rapid strength development, and efficient offshore execution to support accelerated topside installation schedules.

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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Due to the offshore operating environment and installation depth, the works also required compact equipment arrangements suitable for deployment aboard the Main Work Barge LTS3000. In addition, the installation methodology needed to minimize diver intervention during subsea grout inlet installation and post-grouting removal activities.

SIKA SOLUTIONS

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

The scope included the provision of all associated documentation, offshore grouting equipment, materials, supervisors, and grouting technicians required for the execution of the works. A compact offshore grouting spread was mobilized aboard the Main Work Barge LTS3000 to support the subsea installation activities.

To facilitate subsea grout placement, Sika utilized first-generation ROV connectors to install grout inlet ports at approximately EL -28.6 m on the jacket structures. The grout hose system was then connected directly to the jacket leg through the ROV-installed inlet connection, enabling controlled annulus grouting operations without diver intervention.

Sika completed skirt pile sleeve grouting for four skirt pile sleeves at the RS-18 jacket installed at approximately 82.2 meters water depth, four skirt pile sleeves at the RS-20 jacket installed at approximately 79.6 meters water depth, and four skirt pile sleeves at the RS-21 jacket installed at approximately 77.4 meters water depth.

CUSTOMER BENEFITS

The rapid early-strength development properties of SikaGrout®-9610 enabled jacket topside installation activities to commence within hours following completion of the jacket leg and skirt pile sleeve grouting operations, reducing offshore installation time and associated vessel costs.

The use of ROV-installed grout inlet connections eliminated the need for divers to support grout inlet installation, grout line cutting, and post-grouting removal activities. This reduced offshore risk exposure while improving operational efficiency during subsea execution.

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