



SIKA AT WORK

BASSEIN DEVELOPMENT 3 WPH AND PIPELINE PROJECT – UNDERWATER STRENGTHENING OF NBP-B PLATFORM, INDIA

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST



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PROJECT DESCRIPTION

In April 2018, Sika was engaged by L&T Hydrocarbon Engineering Limited to execute critical underwater strengthening works on the ROW-1, NBP-B platform, part of the Bassein Development 3 Well Platform (BD3WPP) project offshore Western India. The project falls under the broader exploration and production activities of Oil and Natural Gas Corporation Limited (ONGC) in the Bassein and Satellite (B&S) Asset region of Mumbai High.

The repair aimed to restore the structural integrity of an overstressed diagonal bracing member at a water depth of 32.36 meters, ensuring the platform's continued safe operation.

Project name: Bassein Development 3 WPH and Pipeline Project - Underwater Strengthening Of NBP-B Platform
Location: Mumbai High, India
Year: 2018
Application: Repair and maintenance
Product: SikaGrout®-9110

PROJECT REQUIREMENTS

Engineering evaluations revealed that one vertical diagonal member on Row-I of the NBP-B platform was overstressed and at risk of buckling under compression. To maintain platform safety and integrity, ONGC required a rapid, reliable repair solution capable of enhancing the load-bearing capacity of the affected member while minimizing disruption to ongoing offshore operations.

Given the tight deadlines and subsea conditions, the repair needed to be executed quickly and with high precision.

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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PROJECT PARTICIPANTS

Customer: L&T Hydrocarbon Engineering Limited
End client: Oil and Natural Gas Corporation Limited (ONGC)

SIKA SOLUTIONS

Sika mobilized swiftly to undertake the underwater strengthening work. The chosen solution involved infill grouting of the overstressed diagonal member to increase its buckling resistance and reduce the internal joint connection stresses to acceptable levels.

Sika supplied 29 tons of SikaGrout®-9110, an ultra-high-performance cementitious (UHPC) grout, engineered for offshore applications requiring excellent compressive strength, low permeability, and reliable long-term performance. Specialized grouting tools and equipment were deployed, and all operations were managed by Sika's experienced offshore engineering team and grouting crew.

Throughout the execution, quality assurance was maintained via UHPC cube casting and compressive strength testing to verify the material's performance in alignment with project requirements.

CUSTOMER BENEFITS

Sika's fast-track mobilization and execution allowed the repair to be completed within the client's tight project deadlines, minimizing potential operational delays. The infill grouting restored the structural integrity of the diagonal member, ensuring safe load transfer and extending the platform's operational lifespan.

By utilizing Sika's high-strength UHPC materials and proven offshore techniques, the client benefited from a reliable, diverless repair solution that delivered long-term performance and cost efficiency without interrupting production activities.

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