SIKA AT WORK
HORIZONTAL MEMBER REPAIR, HEERA FIELD, INDIA

OFFSHORE & MARINE CONSTRUCTION
CONVENTIONAL ENERGY

BUILDING TRUST

HORIZONTAL MEMBER REPAIR, HEERA FIELD, INDIA

PROJECT DESCRIPTION

In December 2021, Sika carried out the structural repair of a damaged horizontal member on an offshore platform located in the Heera Field, Mumbai, India. The project formed part of the Heera Redevelopment Phase III initiative led by Larsen & Toubro Hydrocarbon Engineering Limited for ONGC.

The horizontal bracing of the jacket structure had been severely impacted, resulting in bending and partial failure. A replacement was required at a water depth of -30 meters using grouted clamp technology, marking the first time this method had been applied at such depth in Indian waters.

Project name:	Horizontal Member Repair, Heera Field
Location:	Mumbai, India
Year:	2021
Application:	Repair and maintenance
Product:	SikaGrout®-9550

PROJECT REQUIREMENTS

The damaged member posed a structural risk and needed to be replaced quickly and safely under offshore conditions. Traditional welded replacements would have involved extended diving operations and high vessel time. The client therefore required a faster, cost-effective solution using engineered clamps and ultra-high-performance grout to restore integrity while minimizing offshore exposure.

SIKA SOLUTIONS

Sika provided complete engineering and offshore execution services for the repair. This included structural assessment of the damage, design of hinged grouted clamps, supply of materials and equipment, and offshore grouting operations.

A total of 25 metric tons of SikaGrout®-9550 – an ultra-high-performance grout – was supplied for the clamp infill. The replacement member was installed and secured using the engineered clamp system, followed by grouting to ensure structural continuity and long-term durability. Quality control checks and close-out reporting were conducted as part of the scope to ensure compliance with all client specifications.

CUSTOMER BENEFITS

The hinged grouted clamp method offered significant advantages over conventional welding and replacement techniques. The solution reduced the need for complex underwater operations, shortened vessel and diver engagement, and lowered overall project costs. Structural performance was fully restored with minimal disruption to platform operations, and all deliverables were completed to the client's satisfaction.

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