

PROJECT FACT SHEET

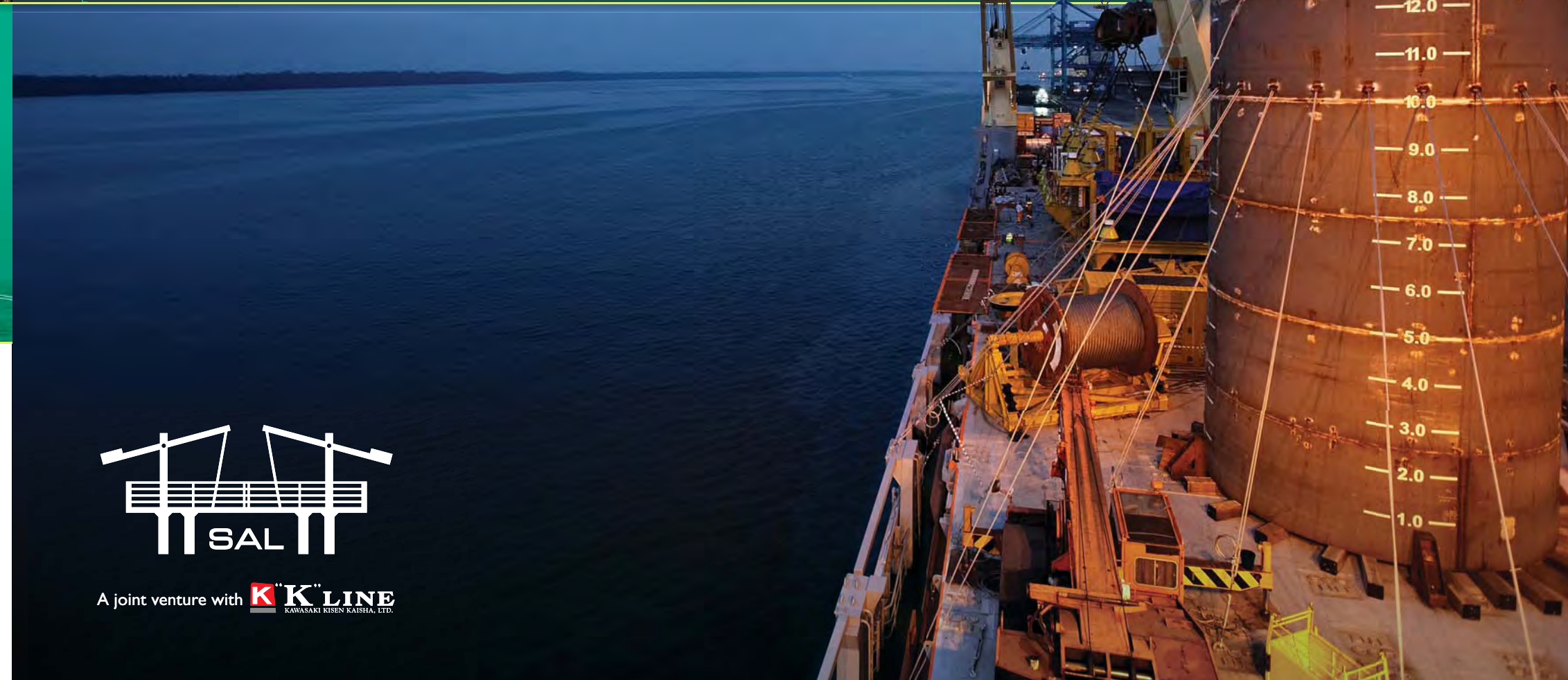
- India's first ultra Deepwater Greenfield Oil Development Project (depth 1,200m)
- One of the world's fastest Deepwater Greenfield Oil Developments
- First FPSO ("Smart One") project for both Reliance as well as Aker Solutions
- Anticipated production amounts to 40,000 b/d
- 11 wet handshakes were performed with anchor handling tug
- Strengthening of shipside for dynamic load of 1000ts
- Special design of underwater traverse
- Construction of linear winch platform
- SAL's performance was marked by another HSE clean sheet

As an established and respected heavy-lift maritime full service provider, SAL's competitive advantage lies in its capability and flexibility to synchronize complementary assets into one successful venture.



SAL - WINNING THE CHALLENGE

**FAST-TRACK ULTRA-DEEP OFFSHORE DEVELOPMENT
MA-D6 PROJECT**



A joint venture with **K LINE**
KAWASAKI RISEN KAISHA, LTD.

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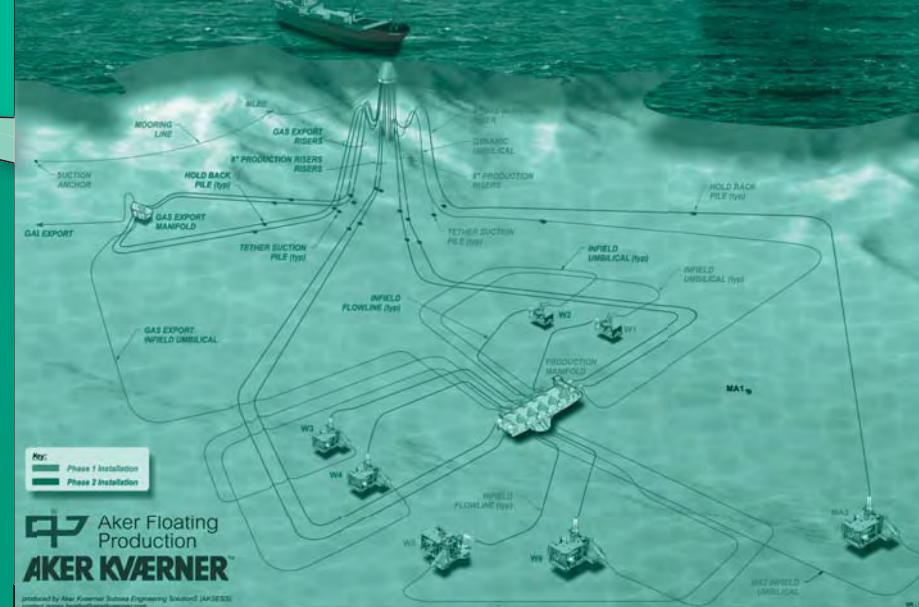
RELIANCE'S KRISHNA GODAVARI BASIN DEVELOPMENT PLAYS A KEY ROLE IN INDIA'S EMERGING HYDROCARBON PRODUCTION.

In 2007, SAL was entrusted by Reliance Industries Ltd. via two of the world-leading offshore EPC contractors, Technip and Aker Solutions, to serve as their heavy lift transportation provider in the MA-D6 project.

The MA-D6 oil field is located in the Northern Krishna Godavari Basin in the Bay of Bengal South East offshore Kakinada. The oil field is part of the larger KG-D6 oil and gas field situated at a water depth of 1200m. MA-D6 is both India's first Deepwater Greenfield Oil Development

project as well as India's first FPSO project. The exploration of the oil and gas field constitutes a significant milestone in satisfying India's growing energy demands.

In this challenging ultra deep offshore oil & gas environment, SAL offered groundbreaking transportation solutions. It flexibly mobilized 3 heavy lift vessels from November 2007 to April 2008 to load both in Europe and Asia to discharge offshore equipment in Kakinada.



PORTFOLIO OF OFFSHORE EQUIPMENT FOR MA-D6

- 2 complete vessels with umbilicals and risers
- STP system
- 9 anchor piles
- 1 manifold foundation suction anchor
- 1 production manifold (330ts)



PERFORMANCE OF WET HANDSHAKE

For this special offshore operation a linear winch was installed on MV "Annette" to enable the lowering and wet handshaking of a 330ts manifold below sea level. This operation called for numerous modifications on the vessel that were developed by SAL's offshore engineering team. With the assistance of the specially installed winch the manifold was lowered 87m below sea level and was taken over by an anchor handling tug for installation on the sea bed.

