

No guts, no glory



In September 2006, Allseas was awarded the offshore installation contract for the Dhirubhai-1 & Dhirubhai-3 (D1 & D3) Gas development Project, off Kakinada on the East coast of India. It was the largest single order Allseas had received and the first contract from Reliance Industries Limited (RIL), a new player in the E&P industry and operator of the KG D6 Block. The contract included installation of subsea structures, pipelines, umbilicals and subsea tie-in connections.



Allseas' *Audacia* installing a PLEM

The D1 & D3 gas development project includes 18 wells in water depths ranging from 600 m to 1200 m, connected to a deepwater pipeline end manifold (DWPLEM) via cluster manifolds through pipelines and infield umbilicals. The gas from the DWPLEM passes through a shallow water control and riser platform (CRP) to the landfall point (LFP), situated 5 km from the onshore gas handling terminal.

Allseas engaged specialized sub-contractors and formed various project management teams at different sites all around world. The turn-around cycle was made swifter with RIL teams co-locating with Allseas' teams at multiple locations for dynamic review and decision making.

Offshore installation and pre-commissioning was carried out from August 2007 until August 2009. The inclement weather on India's east coast reduced an effective and fair weather window for offshore installation to four months (from mid December to mid April). A state of the art fleet of installation vessels was mobilized to the site. The main installation vessels *Audacia*, *Lorelay*, *Tog Mor* and *Express* were supported by more than 80 vessels and barges, working in a limited area of 350 sq. km. An effective vessel tracking system was utilized for meticulous planning of all vessel movements.

Allseas' fleet in the Indian Ocean - *Lorelay*, *Calamity Jane* and *Audacia*

The offshore facilities included installation of 350 km of pipeline, 150 km of umbilicals, 11 subsea structures (DWPLEM, manifolds, SDAs, UDH), 45 pipeline end terminations (PLETs), 29 anchor boxes and 56 jumpers. More than 200 subsea connections were executed.

On March 31, 2009, the loop test of two 24-inch gas trunklines from the DWPLEM to the onshore terminal was successfully completed in order to establish the baseline integrity. On April 1, 2009, the choke of the first well was opened.

With Allseas as one of the major contractors, many records were set, many milestones achieved and many benchmarks established. This challenging project would not have been successful without the extra effort every team member put in over the last three years and absolute support and commitment from the top management of Allseas and RIL.

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