

Project

LNG and Condensate loading jetty, Papua New Guinea

Design and construction of a 2.4-kilometre long trestle with substation platform, loading platform and single LNG load-out berth for owner ExxonMobil, including the fabrication and construction of the topsides. The jetty was constructed adjacent to the planned LNG facility on a remote location twenty kilometres northwest of Port Moresby on the coast of the Gulf of Papua.

The approach trestle consists of precast concrete headstocks on steel piles with precast concrete T-beams over the concrete headstocks for the roadway. The precast structural elements were fabricated at BAM's Precast Yard in West Java, Indonesia and transported to site. The pipe-rack modules (topside) were fabricated and assembled at Clough's Sattahip Fabrication Yard in Thailand and transported to site for installation.



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| Location | Gulf of Papua, northwest of Port Moresby, Papua New Guinea |
| Client | Chiyoda JCG Joint Venture (for owner ExxonMobil) |
| Design | BAM Infraconsult/DMC |
| Contractor | BAM Clough Joint Venture |
| Contract type | Design and construct |
| Contract period | July 2010 – August 2013 |
| Contract sum | US\$ 375 million (including topsides) |

'A project with off-the-scale dimensions.'

BAM Clough has designed and fabricated a cantilever bridge which was used for the construction of the approach trestle over a section of water that is not accessible by conventional marine spread, thereby leaving a minimal environmental footprint. After the cantilever bridge had done its job in Papua New Guinea, it was demobilised and overhauled and slightly modified, before heading off to the Ichthys LNG jetty project of BAM Clough in Darwin, Australia.

Approach trestle closing in on the loading platform



The in-house developed cantilever bridge: building the jetty while standing on the jetty.



Also especially for this project, the Plant Department of BAM has developed a self-propelled trailer to transport the concrete elements and piles down the jetty. The trailer has a dead weight capacity of 60 ton and is 24 metres in length. The trailer was built in the Netherlands and was transported to the site in Papua New Guinea in two containers.

Overview December

Supporting equipment: Self Propelled Trailer

