

Ichthys Project Onshore LNG Facilities, Product Loading Jetty

PROJECT DETAILS:

Location:	Darwin, Northern Territory, Australia
Contract Value:	A\$370 million (2012)
Contract Period:	March 2012 - Current
Safety Statistics:	Manhours: 85,314 LTIFR: 0 (as at March 2013)



Key Aspects

- ✓ Design and construct
- ✓ Remote location

Project Highlights

- ✓ Integrated design and work preparation team
- ✓ Cantilever bridge construction method with limited environmental impact
- ✓ Supported by BAM and Clough's in-house facilities

OWNER: INPEX Browse Limited **CLIENT: JKC JV (JGC, KBR and Chiyoda)**

Project:

BAM Clough Joint Venture was awarded the contract to design and construct the Ichthys LNG Project Product Loading Jetty located at Blaydin Point, Darwin, Northern Territory. Gas from the Ichthys Field will be transported from the offshore CPF through a subsea pipeline more than 885 kilometres to the onshore LNG processing plant located at Blaydin Point.

Joint Venture:

BAM Clough Joint Venture is a 50 / 50 integrated joint venture between BAM International bv and Clough Limited. Established in 1964, the joint venture has successfully delivered 13 major jetty projects for the energy and resources sectors. BAM Clough has in-house engineering and procurement capability to support the construction execution. The joint venture primarily self performs projects with minimal reliance on subcontract scope.

Scope of Work:

The Product Loading Jetty provides two separate berths, one for LNG carriers and a second for LPG /Condensate carriers. Access to the berths from the onshore facility is provided by a Y-shaped approach trestle, with a straight leg approximately 800m long leading to the LNG berth and a 620m spur leading to the LPG / Condensate berth.

The Product Loading Jetty Work includes typical piled with crossheads trestle with concrete superstructure, loading platform for LNG and LPG / condensate, the provision of seawater intake including pump casing and slope protection, waste water outfall structures, navigation aids, marine operations, corrosion and cathodic protection systems.

Construction methodology is primarily a combination of jack up barge, crane barge and cantilever bridge (CLB). This arrangement maximises work fronts, can create schedule flexibility and maximises land based activities.

BAM Clough has designed and fabricated the CLB and its supporting equipment to be used for the construction of the approach trestle from the abutment to the loading platforms which covers the initial land based portion and over a section of water which is not accessible by conventional marine spread. This innovated design ensures construction efficiencies, safer working environment and has minimal environmental impact.

Contracting strategy is EPC lump sum fixed price. Engineering design and procurement is executed by BAM Clough. Major construction, plant and equipment are owned by BAM Clough.

