



Shell CRUX

Package Title

Crux – Flexible Riser and Umbilicals EPCI

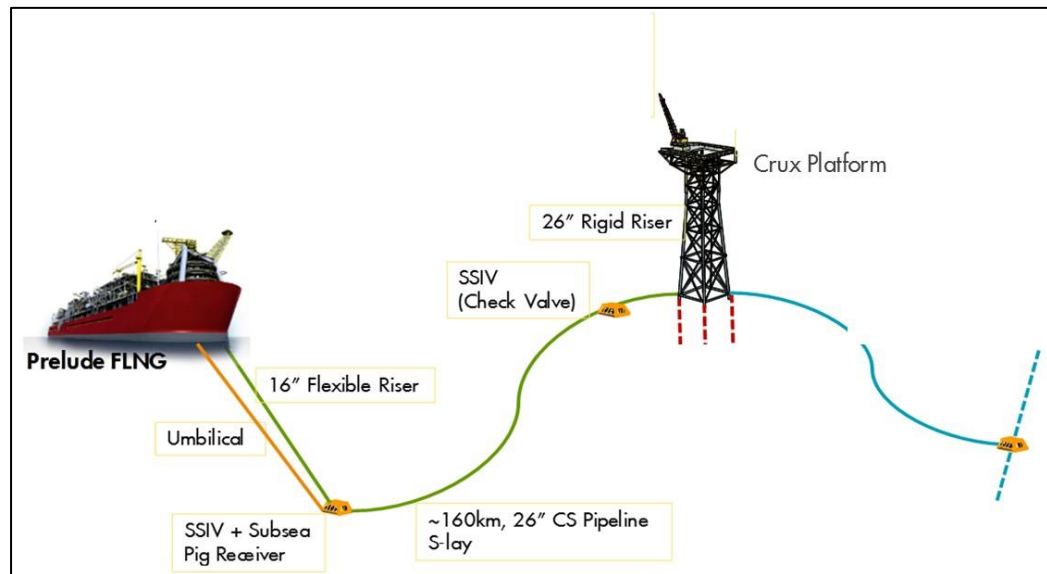
Scope of Work

Shell Australia Pty Ltd (“Shell”) is seeking Expressions of Interest (“EOI”) from experienced and capable Contractors to provide Flexible Riser and Umbilical EPCI services for the Crux project.

Crux Project Overview

Located offshore Western Australia, 600km north of Broome and 160km north east of the Prelude FLNG Facility, the Crux Project consists of a Not Normally Manned (NNM) Platform in 165m water depth; with five (5) production wells, minimal processing utility systems, tie-back to the existing Prelude FLNG Facility via 160km 26” multi-phase flow export pipeline. Crux will be operated remotely from the Prelude FLNG Facility and only require periodic maintenance visits. Crux will be operated by Shell in joint venture with SGH Energy WA Pty Ltd (15%) and Osaka Gas Crux Pty Ltd (3%).

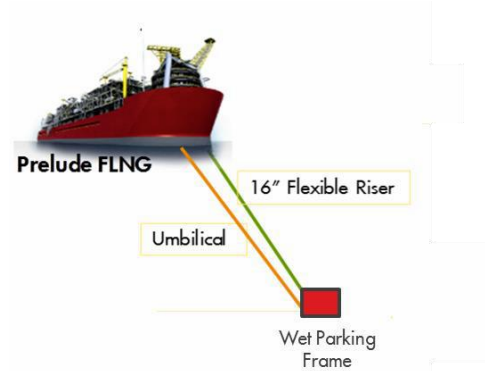
The Crux project commences with FEED in January 2019 with FID expected post 2019.



The 160 km 26” Crux export pipeline shall tie in to Prelude FLNG through a 16” ID dynamic flexible riser. Further, the subsea isolation valve at the Prelude location shall be controlled using a dedicated dynamic umbilical from the FLNG, while the subsea isolation valve at the Crux location will be remotely controlled using a static umbilical from the Crux platform.

The 16” ID flexible riser and dynamic umbilical at the Prelude FLNG side, shall be installed during a planned FLNG turnaround.

Scope Overview



The required scope is as follows:

1. Detailed Design
2. Supply of:
 - a. 1 x 16" ID dynamic flexible riser.
 - b. 1 x dynamic umbilical.
 - c. 1x static umbilical
 - d. Wet parking structure for the flexible riser and dynamic umbilical
 - e. Diverless connectors for flexible riser integration with Crux export pipeline system.
 - f. Bend stiffener connectors (BSC) for the mechanical interface between flexible risers/umbilical and the FLNG.
3. Transportation and offshore installation of:
 - a. Dynamic riser
 - b. Dynamic umbilical
 - c. Static umbilical
 - d. Wet parking frame at Prelude.
4. Possible provision of and management of diving services for bend stiffener connector(BSC) installation on Prelude FLNG.
5. Preservation, storage and associated aftermarket services.
6. Complete EPCI project management

Contractors shall note the following considerations:

1. Anticipated EPCI award in Q2/Q3 2019 shall cover 'Detailed Design' services for the flexible riser and umbilicals. Procurement, product manufacture and offshore installation services are contingent on project taking final investment decision, which is expected post 2019. It is Company's expectation that the same EPCI contractor shall be preserved from detailed design to final offshore installation.
2. Considering the Contractor shall manage both – equipment delivery and offshore installation, Shell expects an installation contractor to manage the scope; with the riser and umbilical delivery through an appropriate sub-contractor i.e. if the EPCI contractor does not have complementary in-house capability.

	<p>3. It is expected that the flexible riser and umbilical installation shall be performed during a planned Prelude FLNG turnaround, as such, the Contractor will be required to have the capability to manage interfaces related to offshore installation on ‘live’ ship shaped hosts, within a fixed turnaround duration and with the potential for dive operations.</p> <p><u>Timeline</u></p> <p>Shell seeks to award this package in Q2/Q3 2019 (pre-FID) to ensure readiness for installation during the targeted Prelude FLNG turnaround (3 – 4 years from now).</p>
<p>Expressions of Interest - Instructions</p>	<p>Please note this is an Expression of Interest (EOI) to develop a better understanding of capability and interest in the market.</p> <p>The project is subject to future corporate approvals, and the scopes of the EOI are subject to change pending project demand and timelines.</p> <p>Contractor(s) are to express interest via ICN Gateway where competency can be demonstrated. Electronic EOIs will be accepted for Full Scope/Partial Scope.</p> <p>Contractors will only be considered for Prequalification to Tender if deemed suitably qualified by the Company (Shell).</p> <p>All initial enquiries can be made through the Industry Capability Network, including assistance with EOI submissions on ICN Gateway.</p> <p>Contacts:</p> <p>For NT companies: David Royle, Resources Coordinator Industry Capability Network Northern Territory T: (08) 8922 9424 E: david.royle@icnnt.org.au</p> <p>For all other companies: Linus O’Brien, Principal Supply Chain Consultant Industry Capability Network of Western Australia T: (08) 9365 7556 E: Linus.OBrien@icnwa.org.au</p>
<p>EOI Closing Date</p>	<p>10th December 2018</p>