

# Woodside Project

For Project Information, please refer to the Project Details Page within [ICN Gateway](#).

<b>Reference Number</b>	P104A
<b>Package Title</b>	<b>GRE Piping System</b>
<b>Package Description</b>	<p><b>Background:</b> Woodside has a range of projects that may require GRE Piping for Seawater system / Firewater / Fresh water system.</p> <p><b><u>General Scope of Works:</u></b></p> <p><i><b>Important:</b> GRE piping manufacturer shall remain responsible for the successful installation and pressure leak testing of the system. This includes manufacture of the components and shop assembly as required, site supervision and training as needed, and quality assurance during installation. General scope includes minimum following.</i></p> <p><b>Supply of GRE Piping Materials:</b></p> <ul style="list-style-type: none"> <li>• GRE Piping materials per ASTM D2310 Classifications: RTRP-11AW or equivalent suitable for maximum operating temperature of 93degC at 1.5MPag.</li> <li>• Any materials including adhesive kits deemed necessary for successful fabrication/installation/testing of GRE piping system</li> <li>• Spare and Tools.</li> </ul> <p><b>Engineering and Design of GRE Piping system.</b> To ensure that the design and performance requirements of the GRE systems are met, design of the system shall be a joint effort between the Manufacturer and design consultant, with the GRE Manufacturer required to review and approve details as produced by the design contractor. This shall include but not limited to:</p> <ul style="list-style-type: none"> <li>• System Design Review;</li> <li>• Stress analysis philosophy, stress calculations;</li> <li>• Piping material specifications and product qualification</li> <li>• Surge, water hammer and vibration analysis; and</li> <li>• Pipe support requirements and detail drawings.</li> </ul> <p><b>Documentation</b> This shall include all the documentation / drawings required for the project including following.</p> <ul style="list-style-type: none"> <li>• Proof of compliance with the qualification requirements of ISO 14692 with the tender.</li> <li>• Production quality control documentation shall be provided in accordance with ISO 14692-2</li> <li>• Installation documentation shall be provided in accordance with ISO 14692-2</li> </ul>

	<p><b>Test &amp; Inspection</b></p> <p>During installation, inspectors nominated by the Manufacturer shall be present at all times, and the requisite numbers of inspectors shall be agreed between the Manufacturer and the Company to carry out following activities.</p> <ul style="list-style-type: none"> <li>• Supervision of Installation; and</li> <li>• Supervision of system Hydrotesting</li> </ul> <p><b><u>Pre-Qualification Requirements:</u></b></p> <ul style="list-style-type: none"> <li>• Must have minimum 5 years' experience in supply to the oil and gas industry.</li> <li>• Must have a list of past project experience and preferably in delivering to offshore Projects in Australian waters.</li> <li>• Must have an ISO quality system and OHSAS or similar certifications.</li> <li>• Must have storage capability for the manufactured products.</li> <li>• The manufacturer shall demonstrate that all components and pipe have been qualified to, and manufactured in accordance with ISO 14692 Part 2: Qualification and Manufacture.</li> <li>• Prior to implementation, any vendor will have to carry out fatigue (cyclic-bending) tests under the product qualification. This is an additional requirement as cyclic-bending tests are not required by ISO 14692.</li> <li>• GRP piping on FPSOs shall meet the requirements of IMO Resolution MSC 753 as amended by MSC 399</li> <li>• All personnel involved in the installation of GRP systems shall be fully qualified as per the requirements of ISO 14692-4 Annex C.</li> <li>• GRP material used on offshore facilities (including FPSOS) shall be qualified to the following classification testing of ISO 14692-2 Annex H: <ul style="list-style-type: none"> <li>-All GRP materials: classification E1 or E2</li> <li>-All GRP materials on floating facilities shall have the Surface spread and flame and heat release evaluated as per ISO 14692-2 Appendix H.1.3.</li> </ul> </li> <li>• All GRP materials in fire water service (<i>see note below</i>): <ul style="list-style-type: none"> <li>- Wet Fire Water System classification SF-HF-EB/30</li> <li>- Dry Deluge System Classification DF-HF-EB/30</li> <li>- Sprinkler Systems classification SF-CF-EB/30.</li> </ul> </li> </ul> <p><i>Note - Use of other classifications may be considered, subject to Company (and where applicable Classification Society) acceptance</i></p> <ul style="list-style-type: none"> <li>• GRP piping systems for use in accommodation, service and control spaces shall have been tested for smoke production in accordance with ASTM E662 or the IMO Resolution A687 test.</li> </ul>
<p><b>Standards</b></p>	<p>Woodside Specifications</p> <p>Standards API, AMSA AS, ISO NFPA20 and DNVGL</p> <p>To be suitable for Western Australian construction.</p>
<p><b>Delivery Place</b></p>	<p>Asia</p>
<p><b>Supplier EOI Instructions</b></p>	<p>Supplier(s) are invited to express interest by registering on <a href="#">ICN Gateway</a> where competency and previous positive experiences of similar systems can be demonstrated.</p>

	<p>ICNWA will follow up on full scope registrations by email, once the full scope closing date has passed. The supplier's response to ICNWA's email will form their Expression of Interest (EOI) for this package.</p> <p>Suppliers will only be considered for Prequalification to tender if deemed suitably qualified based on criteria, including but not limited to, HSSE, Quality management, Financial standing, Onshore / Offshore and Workload availability.</p> <p>Please note this is an Expression of Interest (EOI) only, the content of this work is subject to change pending project demand and timelines.</p>
<b>Contact</b>	<p>All initial enquiries should be made through the Industry Capability Network Western Australia (ICNWA).</p> <p><a href="#">Linus O'Brien</a>  <a href="mailto:Linus.O'Brien@icnwa.org.au">Linus.O'Brien@icnwa.org.au</a>  +61 (0)8 9365 7556</p>
<b>URL</b>	<p>For more information about Woodside Energy please refer to the Woodside Energy Ltd. website <a href="http://www.woodside.com.au">www.woodside.com.au</a></p>
<b>Full Scope EOI Closing Date</b>	<p><a href="#">Friday 28 Feb 2020</a></p>