

# Santos

## Dorado Development Project

<b>Project</b>	Dorado Development Project																																											
<b>Package Title</b>	SEPARATORS																																											
<b>Reference Number</b>	0D200-AKR-R-00-SA-000004-001																																											
<b>Package Description/ Scope of Work</b>	<p>The Dorado Project is a greenfield oil development located offshore WA approximately 150km northwest of Port Hedland comprising of a Floating Production Storage and Offloading vessel (FPSO), Wellhead platform (WHP) and various subsea (SURF) equipment.</p> <p><b><u>Equipment Particulars:</u></b></p> <p>Separators are specialist process vessels which have bespoke-designed internals to separate liquids and particulate from gas. The removable and upgradable separation technologies are expected to encompass; vortex breakers cyclonic, diffuser, vane packs and demisters. Sand-jetting nozzles shall be supplied where required</p> <p>Supplier shall be responsible for the supply of four (4-off) specialist pressure vessels including internals, design to AS.1200, fabrication, shop assembly, inspection and testing painting, preservation, packing and delivery incl. provision of documentation for the scrubber package, spare parts, training, technical assistance, and shall provide a mechanical and process performance guarantee for the below listed equipment:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left;">Item</th> <th style="text-align: center;">1</th> <th style="text-align: center;">2</th> <th style="text-align: center;">3</th> <th style="text-align: center;">4</th> </tr> </thead> <tbody> <tr> <td><b>Tag No</b></td> <td style="text-align: center;">23-VA-0001</td> <td style="text-align: center;">23-VA-0002</td> <td style="text-align: center;">23-VA-0004</td> <td style="text-align: center;">23-VA-0003</td> </tr> <tr> <td><b>Description</b></td> <td style="text-align: center;">Inlet Separator</td> <td style="text-align: center;">HP Separator</td> <td style="text-align: center;">LP Separator</td> <td style="text-align: center;">MP Separator</td> </tr> <tr> <td><b>Size, mm</b></td> <td style="text-align: center;">3,900 ID x 11,700 T/T</td> <td style="text-align: center;">4,100 ID x 12,300 T/T</td> <td style="text-align: center;">4,100 ID x 12,300 T/T</td> <td style="text-align: center;">4,400 ID x 12,700 T/T</td> </tr> <tr> <td><b>Est. Dry Weight, kg</b></td> <td style="text-align: center;">210,000</td> <td style="text-align: center;">83,000</td> <td style="text-align: center;">24,140</td> <td style="text-align: center;">36,900</td> </tr> <tr> <td><b>Design Pressure, barg</b></td> <td style="text-align: center;">FV / 110</td> <td style="text-align: center;">FV / 37</td> <td style="text-align: center;">FV / 4</td> <td style="text-align: center;">FV / 14</td> </tr> <tr> <td><b>Design Temperature, Deg C</b></td> <td style="text-align: center;">-15 / 100</td> <td style="text-align: center;">-10 / 93</td> <td style="text-align: center;">-0 / 85</td> <td style="text-align: center;">-5 / 155</td> </tr> <tr> <td><b>Materials</b></td> <td style="text-align: center;">ASTM A516 Gr.70</td> <td style="text-align: center;">ASTM A516 Gr.70</td> <td style="text-align: center;">ASTM A516 Gr.70</td> <td style="text-align: center;">ASTM A516 Gr.70</td> </tr> </tbody> </table> <p>Pre-Qualification Requirements:</p> <ul style="list-style-type: none"> <li>• Must have minimum 5 years' experience in supply to the oil and gas industry.</li> </ul>				Item	1	2	3	4	<b>Tag No</b>	23-VA-0001	23-VA-0002	23-VA-0004	23-VA-0003	<b>Description</b>	Inlet Separator	HP Separator	LP Separator	MP Separator	<b>Size, mm</b>	3,900 ID x 11,700 T/T	4,100 ID x 12,300 T/T	4,100 ID x 12,300 T/T	4,400 ID x 12,700 T/T	<b>Est. Dry Weight, kg</b>	210,000	83,000	24,140	36,900	<b>Design Pressure, barg</b>	FV / 110	FV / 37	FV / 4	FV / 14	<b>Design Temperature, Deg C</b>	-15 / 100	-10 / 93	-0 / 85	-5 / 155	<b>Materials</b>	ASTM A516 Gr.70	ASTM A516 Gr.70	ASTM A516 Gr.70	ASTM A516 Gr.70
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	<ul style="list-style-type: none"> <li>• Must have a list of past offshore project experience and preferably in delivering to offshore Projects in Australian waters.</li> <li>• Must have existing capability &amp; capacity to deliver.</li> <li>• Must have an ISO quality system and OSHAS or similar certifications.</li> <li>• Must have storage capability for the manufactured products.</li> </ul> <p>Must be able to provide after-sales services during operations in Australia</p>
<b>Specifications and Standards</b>	<p>The equipment shall be in compliance with National, International and Industry Standards, Australian and WA Regulatory requirements including, but not limited to the following;</p> <ul style="list-style-type: none"> <li>• NOPSEMA requirements to ensure regulatory compliance.</li> <li>• DNVGL-RU-OU-0102, DNV Rules for Classification of Offshore Units – Floating Production Storage and Loading Units.</li> <li>• DNVGL-OS-A101, Safety Principles and Arrangements.</li> <li>• DNVGL-OS-B101, Metallic Materials.</li> <li>• DNVGL-OS-D201, Electrical Installation (earthing)</li> <li>• DNVGL-OS-E201, Oil and Gas Processing Systems.</li> <li>• Hull Piping: DNVGL-OS-B101/D101.</li> <li>• Hull Piping fittings: marine shipyard piping construction standard (as approved by Company).</li> <li>• Hull Pressure Vessels: DNV Rules for Classification - Ships Pt 4 Ch 7 “Boilers, pressure vessels, thermal oil installations and incinerators”.</li> <li>• AS 1210-2010 Pressure Vessels, incl. amendment 1 &amp; 2</li> <li>• AS 1200-2015 Pressure Equipment.</li> <li>• AS 3788-2006 Pressure Equipment - In-service inspection.</li> <li>• ISO. 3702. Control and mitigation of fire and explosions on Offshore Prod Installations.</li> <li>• ISO.15156 Parts 1 to 3</li> <li>• ISO 13702 - Control and mitigation of fire and explosions on Offshore Prod Installations.</li> <li>• AS/NZS 3000:2018 Electrical installations design, construction and verification minimum requirements from Standards Australia.</li> </ul> <p>Compliance with Class Society rules</p>
<b>Delivery Place (if applicable)</b>	Singapore
<b>Full Scope Expression of Interest Closing Date</b>	<b>19-Nov-2021</b>
<b>Supplier Instructions</b>	<p>Supplier(s) are to express interest via <a href="#">ICN Gateway</a> where competency and previous positive experiences for similar projects can be demonstrated for equipment of a similar size and service.</p> <p>Supplier(s) will only be considered for receipt of the Tender if deemed suitably qualified by the Company’s Procurement Entity.</p>

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<b>Contact</b>	All initial enquiries should be made through the Industry Capability Network Western Australia. Ray Loh <a href="mailto:Ray.Loh@icnwa.org.au">Ray.Loh@icnwa.org.au</a> +61 8 9365 7499
<b>URL</b>	For more information about Santos please refer to their website <a href="http://www.santos.com">www.santos.com</a>