

Santos

Dorado Development Project

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| Project | Dorado Development Project | | | | | | | | |
| Package Title | Glycol Regeneration Package | | | | | | | | |
| Reference Number | 0D200-AKR-R-00-SA-000009-001 | | | | | | | | |
| Package Description/ Scope of Work | <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>The purpose of a Glycol Regeneration Package is to remove the water from the gas stream before it is routed to the reinjection compressor and fuel gas system. This Glycol Package shall use TEG (Triethyleneglycol)</p> <p>The Glycol Regeneration Package will provide lean TEG stream for use in the TEG contactor via thermal regeneration of the rich TEG and supply of make-up lean TEG, as required.</p> <p>The Glycol Regeneration Package will typically comprise the following non-proprietary equipment;</p> <ul style="list-style-type: none"> • TEG contactor column • Glycol Reboiler (incorporating reflux condenser, still column, heaters, stripping column • Flash drum. • Surge drum. • Heat exchangers. • Fine and activated carbon filters • Glycol cooler • Glycol recirculation pumps <p>The balance of the Glycol Regeneration Package itself is typically a multi-level structural steelwork module with all associated pipework, control and manual valves and instrumentation and electrical and mechanical interfaces.</p> <p><u>Equipment Particulars:</u></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="padding: 5px;">Hydrocarbon Gas Flow Rate, kg/hr</td> <td style="text-align: center; padding: 5px;">2,270</td> </tr> <tr> <td style="padding: 5px;">Pressure at Inlet, barg</td> <td style="text-align: center; padding: 5px;">88.6</td> </tr> <tr> <td style="padding: 5px;">Pressure at Outlet, barg</td> <td style="text-align: center; padding: 5px;">87.6</td> </tr> <tr> <td style="padding: 5px;">Operating Temperature, Deg C</td> <td style="text-align: center; padding: 5px;">50</td> </tr> </table> <p>Supply of the Glycol Regeneration Package shall include design, manufacture, inspection, testing, painting, preservation, packing and delivery incl. provision of documentation for the package.</p> | Hydrocarbon Gas Flow Rate, kg/hr | 2,270 | Pressure at Inlet, barg | 88.6 | Pressure at Outlet, barg | 87.6 | Operating Temperature, Deg C | 50 |
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| | <p>Packages shall be marinized suitably for offshore environmental conditions at the Dorado field</p> <p>Pre-Qualification Requirements:</p> <ul style="list-style-type: none"> • Must have minimum 5 years' experience in supply to the oil and gas industry. • Must have a list of past offshore project experience and preferably in delivering to offshore Projects in Australian waters. • Must have existing capability & capacity to deliver. • Must have an ISO quality system and OSHAS or similar certifications. • Must have storage capability for the manufactured products. <p>Must be able to provide after-sales services during operations in Australia</p> |
| <p>Specifications and Standards</p> | <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"> • NOPSEMA requirements to ensure regulatory compliance. • National Standard for Occupational Noise [NOHSC:1007, National Standard for Occupational Noise, National Occupational Health and Safety Commission, 2nd Edition, July 2000]. • DNVGL-RU-OU-0102, DNV Rules for Classification of Offshore Units – Floating Production Storage and Loading Units. • DNVGL-OS-A101, Safety Principles and Arrangements. • DNVGL-OS-B101, Metallic Materials. • DNVGL-OS-D201, Electrical Installation • DNVGL-OS-E201, Oil and Gas Processing Systems. • Hull Piping: DNVGL-OS-B101/D101. • Hull Piping fittings: marine shipyard piping construction standard (as approved by Company). • Hull Pressure Vessels: DNV Rules for Classification - Ships Pt 4 Ch 7 “Boilers, pressure vessels, thermal oil installations and incinerators”. • AS 1210-2010 Pressure Vessels, incl. amendment 1 & 2 • AS 1200-2015 Pressure Equipment. • AS 3788-2006 Pressure Equipment - In-service inspection. • ISO. 3702. Control and mitigation of fire and explosions on Offshore Prod Installations. • ISO.15156 Parts 1 to 3 • EEMUA Document 191 Alarm system guidance. • ISO 13702 - Control and mitigation of fire and explosions on Offshore Prod Installations. • IEC 60079 series – electrical Apparatus for Explosive Gas Atmospheres. Aligned with equivalent AS/NZ standards • IEC 60079-10, Explosive Atmospheres – Part 10-1: classification of areas – Explosive gas atmospheres. Aligned with equivalent AS/NZ standards • IEC 60079-14, Electrical apparatus for explosive gas atmospheres, Inspection and maintenance of electrical installations in hazardous areas (other than mines). Aligned with equivalent AS/NZ standards. • IEC 60079-17, Electrical apparatus for explosive gas atmospheres. Electrical installations in hazardous areas (other than mines) Aligned |

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| | <p>with equivalent AS/NZ standards.</p> <ul style="list-style-type: none"> • IEC 61508 Functional safety of electrical/ electronic/ programmable electronic safety related systems. Aligned with equivalent AS/NZ standards. • IEC 61511 Functional safety. Safety instrumented systems for the process industry sector. Aligned with equivalent AS/NZ standards. • AS/NZS 3000:2018 Electrical installations design, construction and verification minimum requirements from Standards Australia. <p>Compliance with Class Society rules</p> |
| Delivery Place (if applicable) | Singapore |
| Full Scope Expression of Interest Closing Date | 19-Nov-2021 |
| Supplier Instructions | <p>Supplier(s) are to express interest via ICN Gateway 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> |
| Contact | <p>All initial enquiries should be made through the Industry Capability Network Western Australia.</p> <p>Ray Loh Ray.Loh@icnwa.org.au +61 8 9365 7499</p> |
| URL | For more information about Santos please refer to their website www.santos.com |