

Package Number	05
Package Name	MOORING LINE BUOYANCY ELEMENTS

Scope of Work (* To be confirmed)	<p>The STP™ system shall provide a safe mooring of the FPSO as well as providing unrestricted 360o weather–vaning capability.</p> <p>The Mooring system comprises 15 mooring lines grouped into 3 clusters, where each cluster consists of 5 mooring lines. Each mooring line consists of chain segments towards the anchor and two wire rope segments towards the STP Buoy divided by a mooring line buoyancy element (MLBE).</p> <p>The MLBE is a steel buoyancy element, designed to withstand high external pressures when submerged. The buoyancy element supports a mooring line connecting rod and through this, the buoyancy element provides an uplift force to the mooring line. Mooring tension is transferred through the rod from the lower wire rope segment to upper wire rope.</p> <p>The MLBE is made of high-strength steel. Due to that the steel buoyancy element is subject to large external compressive pressures during operation, it is made with high focus on tolerances. The connecting rod is made from high-strength forging material and is regarded as a mooring component, with the associated requirement related to fabrication and testing, including Minimum Break Load test.</p> <div style="text-align: center;"> </div> <p style="text-align: center;"><i>Figure 1 - Typical MLBE</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="6" style="text-align: center; vertical-align: middle;">MLBE</td> <td>Material</td> <td></td> <td style="text-align: center;">Steel</td> </tr> <tr> <td>Overall length</td> <td style="text-align: center;">m</td> <td style="text-align: center;">9.0</td> </tr> <tr> <td>Diameter of buoyancy tank</td> <td style="text-align: center;">m</td> <td style="text-align: center;">2.9</td> </tr> <tr> <td>Building length of mooring line rod</td> <td style="text-align: center;">m</td> <td style="text-align: center;">4</td> </tr> <tr> <td>Net buoyancy</td> <td style="text-align: center;">kN</td> <td style="text-align: center;">340</td> </tr> <tr> <td>Connecting Rod MBL</td> <td style="text-align: center;">kN</td> <td style="text-align: center;">17 000</td> </tr> </table>	MLBE	Material		Steel	Overall length	m	9.0	Diameter of buoyancy tank	m	2.9	Building length of mooring line rod	m	4	Net buoyancy	kN	340	Connecting Rod MBL	kN	17 000
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Table 1 – Typical MLBE data

The MLBE is coated with a heavy-duty coating system, which, combined with sacrificial anodes, provides the corrosion protection system.

All Mooring components to be certified by DNVGL for LTM (Long-Term Mooring). Design Lifetime is 25 years.

	<p><u>Quantity:</u> 15 ea</p> <p><u>Schedule:</u> Estimated package Sub-Contract Award Q2 2022 Estimated Package Delivery Time: 7 months FCA factory</p>
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Project Registration

Santos is committed to ensuring Australian Industry the opportunity to participate in the Barossa Project. Expressions of Interest are invited from contractors and suppliers with the relevant capability and capacity to undertake the scope of work.

This is a request for specific expressions of interest. Contractors and suppliers will be considered for prequalification and tender if suitably qualified against this package.

Note that an important part of the project registration process is to register an Expression of Interest at the correct Scope level.

Scope level definition:

Full scope: Able to produce / supply all the package.

Partial scope: Able to produce / supply one or more of the sub-packages.

All registrations are to be completed via ICN Gateway BarossaOffshore.icn.org.au. Please contact the ICNNT if registration assistance is required. Contact details: (08) 8922 9422 or resources@icnnt.org.au.

Project Website: Santos Australia