

Oil &amp; Gas

## Amarinth delivers 18m-long pumps for new Indian FPSO

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Amarinth has completed a US\$1.5 million order from Armada Madura for six API 610 VS4 vertical pumps for a new FPSO being built for India's Oil and Natural Gas Corporation Limited (ONGC).



One of the Amarithh 18m long API 610 VS4 pumps for the Armada Madura FPSO in assembly - Image: Amarithh.

Two of the six API 610 VS4 pumps are pour point depressant pumps that are 18m in length and the other four are methanol lift pumps that are 10m long.

All of the pumps have PT100 temperature sensors that have been designed and built along the length of the pumps to monitor the temperature of each bearing individually.

The 18m long pumps incorporate a supporting system of brackets that [Amarinth](#) has designed which attaches each pump to its tank during installation ensuring that as the pump is lowered into the tank it remains perfectly aligned, reducing vibration and wear during operation.

Once assembled, the pumps were independently witness tested and certified by DNV at Amarithh's facility in Rendlesham, UK. The pumps were then disassembled into 3m segments and shipped to Singapore where the FPSO (floating production storage and offloading unit) is being built.

The pump delivery and installation had to align with the FPSO build schedule. Because of the length of the pumps, they had to be installed into the vessel's tanks through the deck before another deck above the pumps could be built. The first phase was completed successfully over the Christmas period with Amarithh's Engineering Commissioning team supporting the customer with the installation and commissioning.

The FPSO will be positioned in the KG-DWN 98/2 field, approximately 22 km off the east coast of Kakinada, India. The vessel is designed to produce up to 90 000 barrels of oil per day (BOPD) and have a 1.3-million-barrel storage facility. It will be equipped to handle the monsoon conditions prevalent at the field.