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The KRI 934 Spica, is the sister ship to the June 2015 delivered KRI 933 Rigel. Both feature extensive KONGSBERG technology. Image Courtesy OCEA

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Kongsberg Maritime: Second KONGSBERG AUV and Subsea Technology Equipped Indonesian Survey Vessel Ready for Duty

The second of two 60 metre oceanographic and hydrographic vessels designed and built by OCEA in France for the Indonesian Navy was handed over following a commissioning ceremony in Jakarta this March. The KRI 934 Spica, is the sister ship to the June 2015 delivered KRI 933 Rigel, which is already on active survey duty in Indonesian waters. Both are highly advanced

aluminium multi-purpose ships, with 'Full Picture' technology packages delivered by Norway's Kongsberg Maritime.

OCEA's unique vessel design and aluminium construction is ideally suited to achieving highly accurate survey results at speed due to producing less cavitation across the hull during surveying. According to OCEA's Director of Sales, Fabrice Epaud, this enables Kongsberg Maritime's hydroacoustic systems on board to operate optimally and deliver highly accurate data at speeds up to 15 knots, close to almost twice that of standard survey operations.

"Aluminium is smooth in the water, hence creating less bubbles, which will enable the Indonesian navy to get the best results possible from the KONGSBERG subsea equipment," explains Epaud. "It's our job to make the best of the survey equipment we are installing for the customer, so we place a lot of emphasis on the integration when constructing a survey or multi-purpose vessel. The result is considerably more efficiency, which can save the customer time and money by completing more survey miles faster, and to a very high standard."

The Indonesian Navy's new vessels will be utilised to gain a better understanding of the seabed and waters of the Indonesian archipelago, so have been equipped with the most efficient and up to date technical and scientific equipment. OCEA worked in partnership with SHOM, the Hydrographic and Oceanographic Service of the French Navy, to optimise the selection and integration of the hydroacoustic equipment in addition to providing scientific training for crews and technical assistance in Indonesia.

The identical KONGSBERG scope of supply for both the KRI 934 Spica and KRI 933 Rigel includes a HUGIN AUV per vessel, EM 2040 and EM 302 multibeam echo sounders, EA 600 single beam echo sounder and side scan sonar, in addition to HiPAP hydroacoustic positioning systems. Both vessels have their own 8 m survey launches also equipped with Kongsberg Maritime subsea technology including the EM 2040 multibeam and EA 400 single beam echo sounder. The KRI 933 Rigel also makes use of an advanced Kongsberg Maritime Dynamic Positioning system.

"This was an extensive 'Full Picture' subsea delivery for two very advanced vessels designed and built by one of the leading shipyards in Europe," said Helge Uhlen, VP subsea Sales, Kongsberg Maritime. "We have worked closely

with OCEA to ensure the vessel owner can get the most out of the technology we have supplied, helping them to operate effectively and generate precise results even when surveying at high speed. It's testament to the sophisticated design and construction methods OCEA uses and our on-going co-operation that survey results from the KRI 933 Rigel have already surpassed expectations."

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About Kongsberg Maritime

Kongsberg Maritime is a global marine technology company providing innovative and reliable technology solutions for all marine industry sectors including merchant, offshore, subsea and naval. Headquartered in Kongsberg, Norway, the company has manufacturing, sales and service facilities in 20 countries and a total of 65 worldwide offices.

Kongsberg Maritime developed systems for vessels cover all aspects of automation, control, navigation, safety and dynamic positioning. Kongsberg Maritime also develops subsea solutions covering systems for Underwater Mapping (UMAP), Underwater Navigation (UNAV), Subsea Monitoring (SUMO) and Marine Robotics in addition underwater cameras.

Marine and offshore training simulators, LNG equipment, information management software, position reference systems, integrated aquaculture technology and advanced products to support seismic and drilling operations are also part of the company's diverse portfolio.

In parallel with its extensive technology portfolio, Kongsberg Maritime provides services within EIT (Electro, Instrument & Telecom) engineering and system integration, on an EPC (Engineering, Procurement & Construction) basis.

Kongsberg Maritime delivers solutions that cover all aspects of technology underwater and on the water, aboard new build and retrofit vessels, and on offshore platforms and rigs, often under a single supplier strategy called The Full Picture.

Kongsberg Maritime is part of Kongsberg Gruppen (KONGSBERG), an international, knowledge-based group that celebrated 200 years in business during 2014. KONGSBERG supplies high-technology systems and solutions to customers in the oil and gas industry, the merchant marine, and the defence and aerospace industries.

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