

INDRA TO PROVIDE QATAR CIVIL AVIATION AUTHORITY (QCAA) WITH LATEST GENERATION NORMARC NAV-AIDS

- **Qatar Civil Aviation Authority (QCAA) has awarded Indra Navia a turnkey project to provide state-of-the-art NORMARC Nav-aids. Indra Navia thereby continues as QCAA's sole supplier of safety-critical landing systems**
- **The NORMARC ILS 32-elements localizer antenna system will improve landing safety at Hamad International Airport as interference from surrounding buildings is greatly reduced**
- **NORMARC DVOR and DME equipment will ensure high-precision maneuvering during en-route and approach flights at Doha International Airport**

Asker (Norway), September 12, 2018.- Indra, one of the world's top technology and consulting companies, has been awarded –through its Norwegian subsidiary, Indra Navia- a turnkey project by Qatar Civil Aviation Authority (QCAA) for the installation of their NORMARC ILS 32-elements localizer antenna at Hamad International airport, and of NORMARC DVOR (Doppler VHF Omnidirectional Range) and DME (Distance Measurement Equipment) at Doha International Airport.

QCAA's vision is to maintain a safe, effective and sustainable civil aviation system, strengthening Qatar's position on the map of the international civil aviation industry.

"Quality and precision are keywords used at all levels of Qatar's society, and QCAA is highly committed to provide the level of quality and integrity it demands", said Eldar Hauge, Managing Director of Indra Navia. "Being chosen by QCAA to continue as the sole supplier of their safety-critical instrument landing systems is a significant recognition of the quality of our technology and our ability to make timely deliveries. We are proud of the mutually rewarding relationship we have built over last few years as a supplier to QCAA. We are looking forward to working with them in years to come."

The NORMARC ILS 32-elements localizer antenna is designed to reduce interference from hangars or other buildings near the runway. This enhances landing safety during peak traffic hours, even in very low visibility conditions during CAT III landings.

Indra's NORMARC DVOR and DME equipment will replace the THOMSOM-CSF DVOR and DME from the early 90's. DVOR and DME gives azimuth and distance information to aircrafts in Qatari airspace to achieve the highest degree of precision for maneuvering during en-route and approach flights.

Indra Navia has previously also implemented their NOVA 9000 A-SMGCS at Hamad International Airport (HIA). The NOVA 9000 has a product history of greatly improving runway safety by visualizing all ground traffic even in low visibility and night operations.

About Indra Navia

Indra Navia designs, produces, and integrates cutting-edge communication, navigation, and tower systems for the world's leading airports and air traffic control organizations. Specializing in highly customized solutions, the company delivers outstanding long-term value under the most demanding conditions. More than 1200 airports around the world rely on GAREX, NORMARC and InNOVA for its reliability, proven track-record and low lifecycle cost. Indra Navia is based in Norway and is a wholly owned subsidiary of Indra.

About Indra

Indra is one of the world's top technology and consulting companies and a technology partner for the key operations of its clients' businesses worldwide. It is a leading worldwide provider of proprietary solutions in

niche areas in the Transport and Defense Markets and the absolute leader in IT in Spain and Latin America. It offers a comprehensive range of proprietary solutions and cutting edge services with a high added value in technology based on a unique culture of reliability, flexibility and adaptability to the needs of its customers. Indra is a world leader in the development of end-to-end technology solutions in fields such as Defense and Security, Transport and Traffic, Energy and Industry, Telecommunications and Media, Financial Services, Electoral Processes, and Public Administrations and Healthcare. Minsait is Indra's digital transformation business unit. In 2017 Indra posted a revenue of €3,011m, employed 40,000 professionals, and had a local presence in 46 countries plus sales operations in more than 140 countries.