Inkoel upgrades to Endress+Hauser level and interface measurement technology, removing water from produced crude oil faster and better

Baku, Azerbaijan. *December 17, 2012* - Most crude oil production requires treatment to remove water. The crude oil must generally be free of water before it can be sold and transported in pipelines. Inkoel MMC in collaboration with Endress+Hauser has helped Binagadi Oil Company to remove water from produced crude oil faster and better.

Binagadi Oil has replaced unreliable ultrasonic and capacitance-based level measurement devices with new Levelflex FMP55 multi-parameter transmitters and Tank Gauging System from Endress+Hauser.

A common measurement in the oil production is detecting the interface level between oil and water in the tank. Emulsion always exists between oil and free water.The FMP55 guided wave radar is used to monitor the level and interface of oil and interface in 3 process tanks. High and low point level detection devices Liquiphant M FTL51 provide overfill prevention at the tanks. The Endress+Hauser FMP55 level transmitter combines guided wave and capacitance technologies, making it especially suitable for measuring interfaces with emulsion layers. The Levelflex FMP55 guided wave radar is enhanced with groundbreaking Sensor Fusion technology to offer best-in-class guided radar measurement for interface levels with emulsion layers. It combines the tried and trusted level monitoring capabilities of capacitance level measurement with the all the advantages of guided radar continuous monitoring in a single instrument to provide accurate, reliable interface level and overall level measurement. Redundant interface detection guarantees safe operation.

The Endress+Hauser Tank Gauging system provides inventory control with accurate data of level, volume and temperature at 3 additional storage tanks. The Tank Gauging System consists of the Tank Side Monitor NRF590, the non-contacting radar level transmitter FMR240 and the intrinsically safe multi-signal converter with precision average temperature sensor Prothermo NMT532. Each Tank Side Monitor NRF590 acquires data from the tank measurement transmitters via intrinsically safe 2 wire HART multidrop communication, displays at the on-site display and transfers the measured and calculated values to the upper level tank inventory system by EIA-485 Modbus interface.

Tank farm automation is now easier and less costly with the integration of Endress+Hauser Tank Gauging System and the Rockwell Automation digital automation system CompactLogix™ 1769. The more accurate and reliable tank automation system from Inkoel MMC has helped the customer to increase safety, reduce shutdowns and increase production.

About Inkoel MMC

Inkoel MMC provides instrument and automation solutions in the oil and gas, refining, chemical, water and wastewater treatment, food and beverage, mining and other industries. The company collaborates with selected partners to help customers reduce system integration costs, improve operational and maintenance efficiency using best-in-class production of automation manufactures such as Rockwell Automation, Endress+Hauser, Metso, Phoenix Contact, Rittal, Leoni Kerpen and many others.

About Endress+Hauser

Endress+Hauser is trusted by more than 100,000 customers to make their processes safe, efficient and environmentally friendly. We offer a range of measurement products, including level, flow, pressure, temperature, analytical and complete engineered solutions designed to help customers acquire, transmit, control and record process information needed to manage operations in a safe, reliable and profitable manner.