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KMS PURON® MBR Technology Selected for Expansion of Municipal Wastewater Treatment Plant in Israel

Wilmington, MA – May 17, 2018 — Koch Membrane Systems, Inc. (KMS), a global leader in membrane filtration technologies, has been selected for the upgrade and expansion of the Afula Wastewater Treatment Works in Israel, featuring its PURON® Membrane Bioreactor (MBR) modules.

The main objective of the project is to increase the capacity of the existing municipal wastewater treatment facility, which was built in the late 1990's based on a conventional activated sludge technology. This will be achieved in two stages: the first stage will result in an increase from 10,000 m³/d treatment capacity up to 36,000 m³/d Average Daily Flowrate (ADF) and the second stage will increase further to 45,000 m³/d ADF.

“The higher packing density of the PURON® product compared to other reinforced hollow fiber technologies was a key consideration in choosing KMS as the preferred technology for the project, allowing us to reduce the project footprint,” said Omri Kochva, CEO of Shtang International Ltd. “Furthermore, the energy savings and the lower project life cycle costs demonstrated by the PURON® technology was a decisive factor in our choice.”

Additionally, water reuse and effluent quality were important considerations due to the general water shortage in the region. To guarantee proper water quality for agricultural use, KMS will supply the facility with eight ultrafiltration trains, each equipped with four PURON PSH 1800 modules, with a total membrane surface area of approximately 50,000 m².

“The use of MBR technology in arid regions has a significant impact due to the high quality of the effluent produced,” said Jack Noble, general manager for water and wastewater EMEA&I at Koch Membrane Systems. “PURON hollow fiber MBR technology continues to be at the forefront of better wastewater treatment allowing the reuse of wastewater and improving accessibility to safe and clean water.”

Afula Wastewater Treatment Works is operated by Mey-Noam Water Corporation and Shtang International will install and maintain the PURON MBR system.

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About Koch Membrane Systems
Filtration for a Better Future...

For more than five decades, Koch Membrane Systems, Inc. (KMS) has led the way in developing innovative membrane technologies that serve a diverse range of industries and applications around the globe. KMS provides membrane filtration solutions to markets including industrial and municipal water and wastewater, food and beverage, life sciences and industrial processes, helping thousands of customers recover high value products, reduce their water footprint, increase productivity, and reduce costs. With an installed base approaching 20,000 systems throughout the world, KMS is setting the standard as a comprehensive membrane solutions provider. www.kochmembrane.com

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About Shtang International Ltd.

Shtang International is an Israel-based global company, specializing in complex and large-scale projects in the fields of water and wastewater, energy and infrastructure. The company covers all aspects of the project from initial planning and financing to construction, operation and maintenance. Shtang carries out EPC projects, Design-Build, BOT, DBOT, and O&M projects and executes projects in all fields and with unlimited scopes and sizes, and collaborative agreements with world leading infrastructure companies. Shtang International is a member of The Green Way Group (TGW) of companies committed to the principles of environmental sustainability.

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