

GES Biotek Ships Cell-Max™ to Israel

Israeli Pump Station to Receive Four 40-Foot High Cube Containers of Cell-Max™ Media for H₂S Bio-Scrubber® Installation

GES Biotek, a leading U.S.-based environmental engineering firm specializing in biological odor control technologies, has announced the successful international shipment of four (4) 40-foot High Cube containers of its proprietary **Cell-Max™** media. The shipment, totaling over 8,000 cubic feet, is being deployed in two new bio-scrubber systems located at municipal wastewater pump stations in Israel.

This milestone project marks a significant international deployment of rigid, open-cell inorganic media engineered for high-efficiency hydrogen sulfide (H₂S) removal. The bio-scrubber systems were designed to treat elevated H₂S concentrations in corrosive, high-humidity environments typical of wastewater collection and conveyance infrastructure.

Manufactured in the USA from post-consumer recycled glass, **Cell-Max™** is a lightweight, durable substrate optimized for the biological oxidation of sulfur compounds. Engineered for long-term stability, the media supports the growth of sulfur-oxidizing bacteria (SOB) while maintaining structural integrity under acidic conditions.

The **Cell-Max™** media is scheduled for installation in the vertical-flow Bio-scrubbers. Based on design parameters, the media is expected to achieve an initial pressure drop of approximately 0.021 inches WC, supporting energy-efficient operation with minimal system resistance. Projected performance data indicates **anticipated H₂S removal efficiencies exceeding 99%** with no breakthrough under standard design empty bed retention time (EBRT) conditions.

Key Cell-Max™ Media Properties

High Surface Area Density	Promotes active and stable biofilm formation
Void Fraction >85%	Maintains low pressure drop and effective airflow
Dry Bulk Density	Approx. 12.5 lb/ft ³
Chemical Stability	Resistant to pH <3.0 environments
Service Life	Expected to exceed 20 years of continuous operation



Cell-Max™



100 ft³ Super Sacks of Cell-Max™ were loaded into cargo containers for the voyage to Israel.



“**Cell-Max™** was selected based on its proven microbial support capacity, chemical resistance, and operational longevity,” said a **GES Biotek** spokesperson. “These installations showcase the performance advantages of engineered inorganic media in aggressive odor control environments where reliability and low lifecycle cost are essential.”

Strategic Expansion into the Israeli Market

This project marks **GES Biotek’s** entry into the Israeli municipal infrastructure sector, reinforcing the global adaptability of its bio-oxidation platform. Israel — recognized for its innovation in water reuse, environmental regulation, and dense urban infrastructure — presents a growing demand for advanced odor control technologies that can operate efficiently under variable hydraulic and chemical loads.

With this installation, **GES Biotek** continues its strategic global expansion by providing sustainable, high-performance biological filtration solutions tailored to the needs of forward-looking wastewater utilities worldwide.

About GES Biotek

GES Biotek is a U.S.-based environmental technology company focused on natural, engineered solutions for air and water quality. Founded in 1997, GES has pioneered high-performance biofiltration media and systems used across municipal, industrial, and agricultural sectors. Its flagship products include the **Bio-Scrubber®** and **Cell-Max™** media, both designed to deliver efficient, low-maintenance treatment of odorous and hazardous air emissions. Learn more at www.gesbiotek.com.

GES Biotek — Good for People, Good for the Environment