

Economical and sustainable solution for waste water treatment

Biotechnology Industry Research Assistance Council (BIRAC), New Delhi, supported Startup REVY Environmental Solutions Pvt Ltd is working on the implementation of optimized wastewater treatment technology. REVY has designed a process for the development of 'Anaerobic Granulated Sludge (AGS)', 'Aerobic Biomass' as well as 'Biomass Growth enhancement formulations (BGEF) for both anaerobic as well as aerobic processes.

REVY Seed Biomass will support the faster start of anaerobic/ aerobic reactor.



BGEFs have been developed keeping in view the nutritional requirement of the biomass to remain healthy and active. The formulations have been developed in such a manner to provide the desired result in the lowest possible dosage. The product AGS is highly economical since industrial effluent is used as a feed material.

One of the biggest issues that the country is dealing with is wastewater management and treatment. Waste management and sewage treatment is a part of public health and sanitation and is entrusted to the municipal corporations for execution. The wastewater generated from domestic or sewage sources being treated in the country is very low, however, the effluent generated by the industry that goes untreated into the system is pretty high. Thus, there is an urgent need for efficient water resource management through enhanced water use efficiency and wastewater recycling.

This problem can only be mitigated by the adoption of cost-effective eco-friendly technologies for wastewater treatment. In the recent past, many startups have emerged that are working towards harnessing renewable energy sources, water and waste management, and e-waste recycling, thus reducing the use of natural resources and also helping reduce emissions

Cost: Biomass Seed Cultures: Rs. 2500-3000 (Approx.) for pack size of 10L (Cost differs with

different forms).

BGEFs: Rs. 2500-5000 (Approx.) (Different pack sizes are available). This technology has also been considered for implementation at Barapullah site at the “DBT- BIRAC Clean Tech Demo Park”.

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