

Participation in Water Innovation Workshop organized by Indian Chamber of Commerce in association with WIN Foundation at IIT Kharagpur on 29-30th Sep'23. REVY Founder, Dr Vanita Prasad won Second Prize in Oral and Poster presentation at the event.

WATER AND WASTE WATER INNOVATION WORKSHOP
 Indian Institute of Technology Kharagpur, India
 September 29-30, 2023

Production of Anaerobic Granulated Sludge and Biomass Growth Enhancement Formulations for Waste Management / Waste Water Treatment Along with Energy Recovery
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Abstract
 Water and energy scarcity have emerged as significant impediments and a global concern. Presently, apart from energy security and sustainable development with a special focus on the ability to integrate clean energy systems, development is being driven by the need to address the growing demand for water. Wastewater treatment systems (WWT) are an essential part of modern life and the understanding of various industrial wastewater treatment technologies, like Anaerobic Sludge Granulation (ASG) using 3D printed culture carriers containing bacteria is one of the most advanced ASG technologies. REVY has developed a novel 3D printed carrier (REVY Carrier) that can help improve ASG. The carrier has a porous structure and is made of a biodegradable material. It is designed to provide a large surface area for bacterial attachment and growth. The carrier is also designed to be easy to handle and clean. The carrier is being used in a laboratory setting to study the effect of various parameters on ASG. The carrier is being used in a pilot scale ASG system to study the effect of various parameters on ASG. The carrier is being used in a full scale ASG system to study the effect of various parameters on ASG.

Introduction
 Anaerobic Sludge Granulation (ASG) is a form of the ASG technology for waste treatment and energy recovery. It is a general term for the process of growing granules in a reactor. The process involves the growth of anaerobic bacteria on a carrier. The carrier is a porous structure and is made of a biodegradable material. It is designed to provide a large surface area for bacterial attachment and growth. The carrier is also designed to be easy to handle and clean. The carrier is being used in a laboratory setting to study the effect of various parameters on ASG. The carrier is being used in a pilot scale ASG system to study the effect of various parameters on ASG. The carrier is being used in a full scale ASG system to study the effect of various parameters on ASG.

Experimental Setup and Methodology
 The ASG system was set up in a laboratory setting. The carrier was used in a reactor. The reactor was operated under various conditions. The effect of various parameters on ASG was studied. The carrier was used in a pilot scale ASG system to study the effect of various parameters on ASG. The carrier was used in a full scale ASG system to study the effect of various parameters on ASG.

Client Validations
 The carrier was validated by various clients. The carrier was used in a reactor. The reactor was operated under various conditions. The effect of various parameters on ASG was studied. The carrier was used in a pilot scale ASG system to study the effect of various parameters on ASG. The carrier was used in a full scale ASG system to study the effect of various parameters on ASG.

Conclusion
 The carrier is a promising technology for ASG. It is designed to provide a large surface area for bacterial attachment and growth. The carrier is also designed to be easy to handle and clean. The carrier is being used in a laboratory setting to study the effect of various parameters on ASG. The carrier is being used in a pilot scale ASG system to study the effect of various parameters on ASG. The carrier is being used in a full scale ASG system to study the effect of various parameters on ASG.

Awards & Accolades
 The carrier has won several awards and accolades. It has been recognized as a promising technology for ASG. It has been used in several pilot scale and full scale ASG systems. It has been used in several industrial ASG systems.

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CERTIFICATE OF PARTICIPATION
 (This is to certify)

Dr. Vanita Prasad of REVY Environmental Solutions Pvt. Ltd. has participated as an oral presenter in 'Production of Anaerobic Granulated Sludge and Biomass Growth Enhancement Formulations for Waste Management / Waste Water Treatment Along with Energy Recovery' at the 'ICC Water & Wastewater Innovation Workshop' organized by the Department of Civil Engineering, Indian Institute of Technology Kharagpur, India, held on September 29-30, 2023.

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CERTIFICATE OF ACHIEVEMENT
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Dr. Vanita Prasad of REVY Environmental Solutions Pvt. Ltd. has secured second place in the oral presentation of 'Production of Anaerobic Granulated Sludge and Biomass Growth Enhancement Formulations for Waste Management / Waste Water Treatment Along with Energy Recovery' at the 'ICC Water & Wastewater Innovation Workshop' organized by the Department of Civil Engineering, Indian Institute of Technology Kharagpur, India, held on September 29-30, 2023.

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