



ORGANIC RECYCLING SYSTEMS LIMITED

CLEANTECH | INNOVATION | ENGINEERING

9th April 2024

BSE Limited
Department of Corporate Services
Listing Department
P J Towers,
Dalal Street,
Mumbai - 400001
Scrip Code: 543997

Dear Sir/Madam,

Sub: Press Release.

In accordance with Regulation 30 of the Securities and Exchange Board of India (Listing Obligations and Disclosure Requirements) Regulations, 2015, please find enclosed herewith Press Release about ORS (the Company) joins hands with SSS-NIBE to Propel Napier Grass Based Anaerobic Digestion Process For Biogas Generation.

We request you to take the same on record.

Thanking you,

Yours faithfully,

For Organic Recycling Systems Limited

Seema Gawas
(Company Secretary & Compliance Officer)

Organic Recycling Systems Ltd

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SSS-NIBE And ORS Joins Hands To Propel Napier Grass Based Anaerobic Digestion Process For Biogas Generation.

Strategic Partnership Aims to Maximize Biogas Potential of Napier Grass Advancing India's Renewable Energy Agenda

Kapurthala, 08th April 2024 - Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE), Kapurthala, an autonomous Institution under the Ministry of New and Renewable Energy (MNRE), Government of India is dedicated to cutting-edge research and innovations in bioenergy with the goal of commercializing technologies and integrating them with other renewable energy sources and Organic Recycling System Limited (ORS), headquartered at Navi Mumbai a pioneering engineering firm specialising in waste valorization and management, offering solutions to convert waste into green energy and renewable resources have entered into a Memorandum of Understanding (MoU) to collaborate on sustainable technology development.

The Indian government has been increasingly focusing on renewable energy sources to address various challenges such as energy security, climate change, and environmental sustainability. Biomass-to-energy technology, including co-digestion of Napier grass, paddy straw, and press mud for biogas production, has emerged as a crucial component of India's renewable energy strategy due to several pressing needs

The collaboration and partnership between Sardar Swaran Singh National Institute of Bio-Energy and Organic Recycling System Limited represents a significant step forward in the realm of biogas production. At the heart of this collaboration lies the adoption of an innovative technique known as co-digestion, which involves the processing of feedstocks like Napier grass and other agricultural residues through anaerobic digestion to generate biogas. Recognizing the critical role of renewable energy in addressing the nation's energy challenges, both entities are directing their efforts towards exploring the untapped biogas potential of key feedstocks such as Napier grass and its utilization in thermophilic digestion. The focus on Napier grass as a feedstock underscores their dedication to exploring diverse and abundant biomass resources for energy generation. This innovative approach not only boosts the efficiency of biogas production but also ensures that all available resources are utilized to their fullest potential, contributing to a more sustainable energy landscape.

To put this pioneering method to the test and refine its processes, both SSS-NIBE and ORS are joining forces to establish a pilot biogas plant at ORS's existing Solapur facility.

This pilot plant will serve as a vital testing ground, allowing researchers and engineers to fine-tune the biogas production process using a specific feedstock such as Napier Grass. It will also facilitate the development and validation of technical processes and operational parameters, ensuring that anaerobic digestion technology is optimized for maximum efficiency and reliability.

Once the co-digestion process has been successfully tested and validated at the pilot scale, the collaboration aims to scale up the technology for commercial use. ORS, with its extensive expertise in waste management and renewable energy solutions, will play a crucial role in implementing and operating the commercial-scale biogas plant. This scaling up process is essential for realizing the full potential of co-digestion technology and making a significant impact on renewable energy generation in India.

In addition to their focus on biogas production, both SSS-NIBE and ORS have committed to contributing their respective resources to the collaboration. This comprehensive approach extends beyond biogas production and encompasses various areas of collaboration outlined in the MoU. These include joint research funding projects, the incubation of startups, the demonstration of sustainable industrialization models, and support for the commercialization of high-potential products.

Dr. G. Sridhar, representing SSS-NIBE, expressed excitement about the partnership, stating, *“The partnership, aimed at the promotion of indigenous technology between an upcoming R&D institution in bioenergy and an established industry involved in waste valorisation, is in the direction of making India self-reliant on renewable energy technologies - Amtanirbhar Bharat”*

Mr. Yashas Bhand, CEO of ORS, expressed his enthusiasm for the partnership, stating, "This collaboration represents a significant milestone in our efforts to drive sustainable waste management solutions and renewable energy generation. By combining our expertise with NIBE's research capabilities we aim to pioneer new pathways for biogas production and drive positive change in the renewable energy landscape of India, contributing significantly to the nation's sustainable development goals. "

The collaboration between SSS-NIBE and ORS underscores their shared commitment to innovation and environmental stewardship paving the way for a greener and more energy-efficient future. By leveraging their expertise, the partners aim to drive positive change and contribute to India's sustainable development goals.



About Us

Organic Recycling Systems Limited (ORS) is a pioneering engineering firm specializing in environmental solutions, offering comprehensive waste management solutions across various waste types and the entire value chain. Established in 2008 by technocrats, ORS focuses on developing robust, cost-effective, and eco-friendly technologies. With proven expertise, ORS operates India's premier Waste to Energy (WTE) plant, leveraging patented anaerobic bimethanation technology, recognized by the Government of India's National Master Plan. Additionally, ORS operates a Municipal Solid Waste (MSW) processing plant in Solapur, Maharashtra, converting waste into electricity and compost since 2013. Recognized as a leader in best practices under the Swachh Bharat Mission, ORS is now positioned for EPC opportunities nationwide. ORS operates through three main business verticals: Project development & Technology Licensing, Product Vertical, and Consulting Vertical, providing a comprehensive range of services and solutions in the environmental sector. Through ongoing R&D initiatives and intellectual property development, ORS continues to innovate with new products and technologies, further expanding its presence and impact across the waste value chain.