ORGANIC RECYCLING SYSTEMS LIMITED
CLEANTECH | INNOVATION | ENGINEERING

28th May 2025

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) and SSS-NIBE Launch SEED/Culture Consortium Based Pilot Biomethanation Plant in Solapur

We request you to take the same on record.

Thanking you,

Yours faithfully,

For Organic Recycling Systems Limited

SEEMA HARISHCHANDRA GAWAS
Digitally signed by SEEMA HARISHCHANDRA GAWAS
Date: 2025.05.28 08:26:03 +05'30'

Seema Gawas
(Company Secretary & Compliance Officer)

ORSL and SSS-NIBE Launch SEED/Culture Consortium Based Pilot Biomethanation Plant in Solapur

"Pioneering indigenous microbial technology to accelerate India's clean energy transition"

Solapur, Maharashtra | 28 May 2025:

Organic Recycling Systems Limited (ORSL), a **prominent engineering and technology company** in the **bioenergy sector**, in collaboration with the **Sardar Swaran Singh National Institute of Bio-Energy (SSS-NIBE)** under the **Ministry of New and Renewable Energy (MNRE)**, has officially launched a **pilot-scale SEED/Culture-based biomethanation plant** at the **Solapur Bioenergy Systems Pvt. Ltd. (SBESPL)** facility.

The initiative represents a **landmark advancement** in India's pursuit of **sustainable** and **decentralized bioenergy solutions**. Designed to validate the **THERMI-NIBE microbial consortium**, the pilot plant will test the **anaerobic digestion** of diverse **lignocellulosic** and **organic feedstocks** such as **Napier grass**, **agricultural residues**, and **food/agro-industrial waste**, paving the way for **scalable Compressed Biogas (CBG) production** aligned with the Government of India's **SATAT (Sustainable Alternative Towards Affordable Transportation)** initiative.

A Strategic Milestone in Waste Valorisation

SBESPL in Solapur, originally established to convert **municipal solid waste** into **biogas** and **fermented organic manure**, has evolved into a **national showcase for innovation** in **urban waste valorisation**. With a **decade of operational success**, it now enters a **pivotal new chapter**.

The launch of the **SEED/Culture-based pilot plant** transforms the facility into one of India's few **live platforms** where **cutting-edge microbial technologies** are applied to **complex, real-world feedstocks**. This shift repositions SBESPL as not just a **waste processing unit**, but a **strategic centre for clean energy innovation**, shaping **future-ready biomethanation standards** and contributing meaningfully to India's **circular economy** and **energy transition goals**.

The core objectives of the pilot project include:

- Enhancing digestion rates for difficult-to-degrade biomass
- Maximizing biogas output from non-conventional feedstocks
- Testing process stability and environmental sustainability
- Demonstrating readiness for commercial-scale deployment

To support long-term feedstock requirements, ORSL has also initiated large-scale cultivation of Napier grass, a high-yield, lignocellulosic crop suited for thermophilic digestion across Solapur and its peripheries.

Voices from the Leadership

Speaking at the inauguration, Mr. Yashas Bhand, CEO and Whole-Time Director of Organic Recycling Systems Limited, emphasized the broader strategic intent:

"The commissioning of this pilot plant represents a pivotal advancement in our long-term strategy to drive innovation-led growth within India's bioenergy landscape. This collaboration with SSS-NIBE signifies more than technological alignment, it underscores our shared commitment to the commercialization of indigenous research and the practical scaling of next-generation biomethanation technologies.

By validating the SEED/Culture-based process under real-world conditions, we are not only addressing critical variables in biomass digestion and gas yield but also laying the foundation for a commercially robust and operationally scalable CBG model. This pilot is a strategic enabler that will inform future deployments and help derisk upcoming investments across the sector."

Dr. Sachin Kumar, Deputy Director and Scientist at SSS-NIBE, added:

"The THERMI-NIBE culture is the outcome of extensive R&D focused on enhancing the biological conversion efficiency of complex biomass. Its deployment in a real-world setting at Solapur marks a critical step in moving beyond theoretical validation toward field-proven performance.

By integrating this indigenous microbial consortium into a functioning biomethanation facility, we aim to establish definitive operational benchmarks for both decentralized and large-scale bioenergy systems. This initiative stands as a clear demonstration of how research-led innovation can be transformed into commercially viable and environmentally impactful clean energy solutions. Our collaboration with ORSL reflects the growing convergence between science, policy, and implementation in advancing India's energy security through indigenous technologies."

Dr. Manju Tanwar, Chief Scientist & Head of R&D at ORSL, reflected on the innovation journey:

"This collaboration exemplifies the fusion of science and engineering to address India´s waste valorisation challenge. The technology under validation has the potential to redefine how we generate clean, scalable bioenergy from complex organic feedstocks."

Looking Ahead: Model for National Replication

With its successful commissioning and real-world validation, the Solapur pilot is poised to emerge as a **national reference model for scalable deployment across India's biomethanation sector.** The operational insights and technology benchmarks established through this project will directly inform the execution of India's National Bioenergy Mission, advancing the vision of self-reliant clean energy generation through indigenous innovation and sustainable biomass utilization.

About Organic Recycling Systems Limited (ORSL)

Organic Recycling Systems Limited (ORS) is a pioneering environmental engineering company specializing in sustainable waste management and valorisation solutions. Established in 2008 by technocrats, ORS develops and deploys robust, cost-effective, and eco-friendly technologies across the entire waste value chain.

ORS operates India's first municipal solid waste (MSW) processing plant based on a patented anaerobic biomethanation process, recognized by the Government of India under the National Master Plan. One of its flagship projects is located in Solapur, Maharashtra, where biodegradable waste is converted into **Compressed Bio-Gas (CBG)** and **fermented organic manure**, exemplifying a scalable circular economy model.

ORS currently has a total processing capacity of 400 tonnes per day (TPD) across its facilities, with 50% of this capacity currently utilized.

The company's operations span three strategic business verticals:

- **Project Development & Technology Licensing** – Delivering turnkey projects and technology solutions for waste valorisation.

- **Product Vertical** – Offering a growing portfolio of bio-based products such as CBG, organic manure etc. that support sustainable energy and agriculture.

- **Consulting Vertical** – Providing specialized advisory services in environmental strategy, waste management, and regulatory compliance.

Recognized under the Swachh Bharat Mission for operational excellence and innovation, ORS is actively pursuing EPC (Engineering, Procurement, and Construction) opportunities nationwide.

ORS's research and innovation efforts are reinforced through collaborations with esteemed institutions such as **IIT Bombay (IITB)**, **AGH University Poland, University of Birmingham (UOB)**, and other technical partners. These partnerships continue to drive the company's intellectual property development and technological advancements in the environmental sector.

For further information on the Company, please visit https://organicrecycling.co.in/

INVESTOR RELATIONS ADVISOR

Captive IR Strategic Advisors Pvt. Ltd
Krunal Shah / Vinayak Shirodkar
Contact No: +91 9867018508 / +91 9892288895 / +91 8828297297
Email Id: Krunal@cap-ir.com / Vinayak@cap-ir.com

Disclaimer:

CERTAIN STATEMENTS IN THIS DOCUMENT MAY BE FORWARD-LOOKING STATEMENTS. SUCH FORWARD-LOOKING STATEMENTS ARE SUBJECT TO CERTAIN RISKS AND UNCERTAINTIES LIKE GOVERNMENT ACTIONS, LOCAL POLITICAL OR ECONOMIC DEVELOPMENTS, TECHNOLOGICAL RISKS, AND MANY OTHER FACTORS THAT COULD CAUSE OUR ACTUAL RESULTS TO DIFFER MATERIALLY FROM THOSE CONTEMPLATED BY THE RELEVANT FORWARD-LOOKING STATEMENTS. ORGANIC RECYCLING SYSTEM LTD WILL NOT BE IN ANY WAY RESPONSIBLE FOR ANY ACTION TAKEN BASED ON SUCH STATEMENTS AND UNDERTAKES NO OBLIGATION TO PUBLICLY UPDATE THESE FORWARD-LOOKING STATEMENTS TO REFLECT SUBSEQUENT EVENTS OR CIRCUMSTANCES