



ORGANIC RECYCLING SYSTEMS LIMITED

CLEANTECH | INNOVATION | ENGINEERING

26th December 2023

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 in respect of update on Sanjeevak Carbonisation System (SCS) technology and it's various sustainable products.

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

Registered / Corporate Address : 1003, The Affaires, Plot No.19, Sector-17, Sanpada, Navi Mumbai – 400705.

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CIN U40106MH2008PLC186309

Organic Recycling Systems Limited

Innovative Sanjeevak Carbonisation Systems Start Production Of Various Sustainable Products at Demonstration unit.

Sanjeevak Carbonisation Systems

Sanjeevak Carbonisation Systems (SCS) Pilot plant converts Coconut Shells from Various Temples, MSW processing facility and Crop Processing Units into Charcoal briquettes and pellets by the use innovative technology. These products are key to commercialisation of SCS technology.

What does the System do?

Sanjeevak Carbonisation Systems (SCS) is biomass-to-charcoal conversion system. It transforms biomass waste generated into high-quality charcoal. This process minimizes environmental impact while maximizing resource utility.

Pilot Plant Successfully Starts Production Of Various Sustainable Products

The production of various product line from Sanjeevak Carbonisation System (SCS) has been successfully achieved.

The plant established in Pawane, Navi Mumbai area which has a capacity to produce one ton of various products, has been successful in demonstrating production of following product line :

A) 25x25 mm Pellets



B) 250 x 250 Briquettes



C) Dhoop Cones



D) Dhoop bamboo-less sticks



Benefits of SCS :

- **Efficient Carbonization :**

Employs an advanced carbonization process that maximizes the conversion of biomass into high-quality charcoal, ensuring optimal resource utilization.

- **Low Emissions :**

Emission control system enables the process to minimize environmental impact.

- **Process Control :**

Ensures precise process controls such as temperature and uniform heat distribution for consistent and high-quality results.

What is Carbonization?

Carbonization is a transformative process that converts organic materials such as biomass waste into valuable charcoal pellets. This is achieved through controlled heating in a specialized chamber which drives off volatile compounds leaving behind carbon-rich residue.

BIOMASS TO CHARCOAL:

Unlocking the True Value of Advanced Carbonization Technology Transforms Biomass Waste into Valuable Resources.

Is The Process Sustainable or Not?

Our Process is sustainable due to its utilisation of Biomass Waste which would go useless. The process releases fewer greenhouse gases and promotes various different uses of renewable resources. Our Process contributes to circularity, making it an eco-friendly and sustainable practice.

Applications of Charcoal:

- Fuel for Fireplaces, Barbecues and many more.
- Raw material for the production of activated carbons.
- Tablets, Medicines, Suppositories due to its Absorptive Properties.
- For making Incense Sticks and Dhoop Sticks.

Management Comments :

We are overwhelmed by our R&D team for the hard work done and successfully completing the launch of various sustainable charcoal products. The successful production of various products is a steps towards commercialisation of the SCS technology.

Further, Company's R&D Team is continuously working on developing various other technologies to enhance the waste utilisation as a resource.



**SANJEEVAK
CARBONISATION
SYSTEMS**

ORGANIC RECYCLING
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"SANJEEVAK CARBONISATION SYSTEMS (SCS) CONVERTS COCONUT SHELLS FROM VARIOUS TEMPLES, FARMS & CROP PROCESSING UNITS INTO CHARCOAL"

What does the system do ?

Sanjeevak Carbonisation System (SCS) is biomass-to-charcoal conversion system. It transforms biomass waste generated into high-quality charcoal. This process minimizes environmental impact while maximizing resource utility.

What is Carbonisation ?

Carbonisation is a transformative process that converts organic materials, such as agricultural waste or biomass, into valuable charcoal. This is achieved through controlled heating in a specialized chamber, which drives off volatile compounds, leaving behind carbon-rich residue.

BENEFITS OF SCS

-  **Efficient Carbonization**
Employs an advanced carbonization process that maximizes the conversion of biomass into high-quality charcoal, ensuring optimal resource utilization.
-  **Low Emissions**
Emission control systems, enables our the process to minimize environmental impact
-  **Process Control**
Ensures precise process controls such as temperature and uniform heat distribution for consistent and high-quality results.

GET IN TOUCH

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BIO MASS TO CHARCOAL

UNLOCKING THE TRUE VALUE OF BIOMASS

Discover how our advanced carbonization technology transforms biomass waste into a valuable resource.



Coffee bean shell

walnut shell

Groundnut shells

Is this process Sustainable ?

Our process is sustainable due to its utilization of waste biomass, which would otherwise go unused. The process releases fewer greenhouse gases and promotes renewable resource use. Our process contributes to circularity, making it an eco-friendly and sustainable practice.



Applications of Charcoal

-  **Fuel for Fireplaces, Barbecues, and More**
-  **Raw material for the production of activated carbons.**
-  **Tablets, medicines, suppositories due to its adsorptive properties**
-  **For making incense sticks and dhoop sticks**

Can coconut shells be transformed into charcoal ?

Coconut shells can be converted into charcoal. Cellulose, hemicellulose, and lignin, the carbon-rich organic compounds within the shells get converted into charcoal. Shells of coconut are rich sources of biomass for charcoal production. It's important to note that the choice of biomass material can impact the quality and characteristics of the resulting charcoal. Different materials may require specific processing techniques and conditions for optimal conversion.

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About Us:

Almost two decades ago, when the waste management sector started becoming a viable large-scale industry in India, the Indian government set up the basic set of guidelines and rules related to municipal sewage waste (MSW) processing.

During that time, concerned about the growing environmental pollution and exploring , the goal was of creating valuable resources out of waste. After studying the various technologies and waste management solutions present across the globe, the core philosophy of Organic Recycling Systems Limited (ORS) was born.

Not all waste fractions can be processed or treated by one single technology and each waste fraction deserved to be treated as a unique resource. Based on these philosophies, ORS constructed and set up the first of its kind large-scale MSW processing plant in Solapur in 2013. The integrated MSW processing plant in Solapur was the first in India with the ability to segregate waste into organic and inorganic fractions. The organic waste was processed with our natively developed and patented DRYAD™ technology, which used the biological process of thermophilic biomethanation to produce biogas and fertilizers as products out of organic waste.

Over the past decade, ORS has worked on dozens of waste management and processing projects, each with its unique technological requirements. Through our years-long operational experience in the waste management sector, ORS has developed MSW processing technologies to increase profitability for the stakeholders and reduce the impact of waste on the environment.