

packaging products. Made with natural bio-compatible and green ingredients, it can be applied to various types of side streams and can be broken down for reuse as feedstock when it no longer meets its application requirement.

This technology provider is actively seeking R&D co-development and out-licensing of the developed IP to companies looking to produce and develop new products/applications using bio-composite materials derived from organic waste.

TECHNOLOGY FEATURES & SPECIFICATIONS

These eco-friendly bio-composite materials have the following features:

- Formulated with bio-constituents, ensuring an environment-friendly green material
- Pelletised material options that provide adaptability, flexibility and versatility in application and product fabrication methods
- Designed for recyclability and reuse, contributing to resource efficiency, energy conservation, and circular economy
- Compostable and bio-degradable properties
- Anti-mold and anti-fungus functional benefits
- Customizable formulations tailored to different side stream sources (e.g., coffee grounds, fibrous fruits, rice stalks) and applications - possible for heterogeneous side stream sources

POTENTIAL APPLICATIONS

Potential applications of this technology include (but are not limited to):

- Sustainable rigid or flexible packaging for consumers and personal care
- Eco-friendly alternatives to leather
- Agricultural uses such as hydroponic foams and plant pots
- Personal care consumables alternatives such as sponges and loofahs
- Household products such as tablewares, cutleries, stationeries
- Pet products, such as pet toys and accessories

UNIQUE VALUE PROPOSITION

- Fully customisable bio-based material derived from renewable sources
- Offers a green technology and inherently recyclable and/or compostable for a circular economy
- Scalable and cost-efficient production of new products with side stream as feedstock