



**Our team would like to wish you and your loved ones a wonderful holiday season and a prosperous new year.**

**Season's Greetings**

A Festive Gesture



This year, the Hakiki group has once again donated the budget allocated for end of year gifts to a worthy cause.

On 19<sup>th</sup> October Hakiki staff members, together with the owners and managers, visited the village of Kemiri Sewu, where the Java Biocolloid processing facility is located, to distribute milk to the children of the local schools.

While milk and dairy are fundamental to the growth and development of infants, many families in Indonesia are unable to afford dairy products on a daily basis. Through this program the Hakiki group will be providing whole milk products to the local children three times a week for six months, promoting health and well-being for the future generation.

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**BiopoLife**

Independent Laboratory

BiopoLife, in collaboration with AREA SCIENCE PARK and the University of Trieste is developing a unique laboratory for the study and validation of natural hydrocolloids and biopolymers.

BiopoLife is a point of reference for all companies that require specific assessments of the sector such as molecular weights, intrinsic viscosities, molecular mass distribution, gel strength, etc.

Moreover, one of the newest additions to the list of analysis that BiopoLife can offer is Magnetic Resonance Spectroscopy. NMR is one of the most powerful analytical techniques used to characterize both crude extracts of hydrocolloids and purified polymer samples. High resolution NMR techniques are currently used to perform structural analysis on biopolymers and are often the key tool to single out the differences between samples for their structural identity and impurity profile.

The laboratory's independence is guaranteed by a board of the highest institutional profile, collaborating with university institutions and research institutions.

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**Environmental Agreement**

Defending the Environment

Java Biocolloid, together with community leaders of the Kemiri Sewu village where our production facility is located, have signed an environmental agreement that guarantees suitably purified water to the farmers of the local area, based on the Blue Economy Principles. The water, as a result of the seaweed treatment process, is rich in phosphates, potassium and minerals which favour the growth of the crops.

This commitment is not only related to the use of water, but also covers the entire production cycle of the factory, the re-use of packaging and a commitment to the use of natural gas as an energy source.

Java Biocolloid is also currently in the process of installing over 20,000 square meters of solar panels to further reduce our emissions.

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