

SumBio OIL PALM SEED

The Planting Material
for Your Future Success





An Industry Leader

Sumatra Bioscience (SumBio), also known as Bah Lias Research Station (BLRS), is a leading agronomy R&D centre specialising in the production of premium, certified oil palm seeds. Based in Bah Lias, North Sumatra, we are the research arm of PT PP London Sumatra Tbk (LONSUM), a subsidiary of Indofood Agri Resources Ltd. (IndoAgri).

SumBio's award-winning seed breeding programme was started over 80 years ago by Harrisons & Crosfield Plc, a UK plantation management services firm and predecessor of LONSUM. Following the receipt of elite Deli Dura and AVROS seed progenies from Dami, Papua New Guinea in the 1980s, we participated in the Combined Breeding Programme founded by Harrisons & Crosfield and Unilever Plantation. Participation in the oil palm germplasm consortium allowed us to explore and acquire further genetic material from various African breeding populations, including Angola, Cameroon, Congo, Ghana, Ivory Coast, Nigeria and Tanzania, as well as from Ecuador in Latin America. We now have an extremely wide pool of genetic material, enabling us to continue to develop industry leading oil palm seeds.

Today, SumBio has released seven premium seed varieties, including one uniform elite semi-clonal material customised for specific planting conditions. As an industry leader, we have a well-regarded reputation for producing superior home-grown seed progenies that are commercially proven in Indonesia to match or exceed the yield performance of palm seeds sourced overseas.



Experience and Expertise

SumBio's seed breeding programmes are developed by well-known international experts, who oversee the research and production of high-quality seed progenies. We have an experienced local team of more than 40 graduate and post-graduate staff stationed in North Sumatra, South Sumatra, Java and Kalimantan.

To support our research programmes, our facilities are well equipped with laboratories and cultivation chambers designed to meet the production standards for certified seed materials. We also collaborate with universities and research institutions to accelerate our key R&D activities, such as the Novel Trait Programme and Ganoderma research.



Why SumBio?



Discover the hallmarks of SumBio's Germinated Oil Palm Seeds

Our high-yield, disease-resistant and high oil content seed material are highly sought-after by leading oil palm plantations.

High FFB Yield and Extraction Rates

Our customers achieve consistently high commercial yields of 30 to 35 tonnes of fresh fruit bunches (FFB) per hectare per year in Indonesia. Our average palm oil extraction rates range from 28 to 33% in the laboratory, while the mill extraction rates in North Sumatra average 25%. The kernel extraction rates average 6%.

Our proprietary DxP Bah Lias 7 seed variety caters to the exacting demands of land intensification, with consistently high oil extraction rates of up to 28% in the mill (about 10 tonnes of CPO per hectare per year).



Precocious and Faster Yields

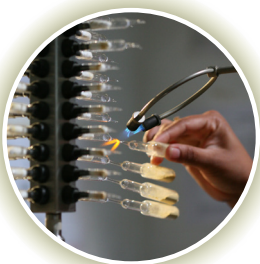
Our exclusive Deli x AVROS planting material, namely the DxP Bah Lias 1 variety, is well-known for its high yield and resilience during the first five years of production, providing plantation owners with faster financial returns.



Low Dura Contamination (<1%) and Identified Crosses

Our skilled pollinators work in strictly controlled environments to ensure that the commercial Dura contamination rates of our planting material are negligible. As a certified seed producer, SumBio is required to ensure the genetic purity of our progenies, with contamination levels in regular tests capped at <1%.

Our seed products are clearly identified to improve the control and traceability for each crossing, facilitate culling in the nursery, and enhance the efficiency of field planting per progeny.



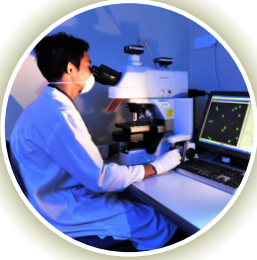
Extensive and Proven Breeding Programmes in the Indonesian Environment

Our seed progenies are the result of extensive R&D and breeding trials carried out in North Sumatra, South Sumatra and East Kalimantan — making them the preferred choice among Indonesian farmers.



High-Technology Research

Our investments in tissue culture, DNA molecular marker analysis, cytologic evaluation techniques and other advanced technologies have accelerated our conventional field trials and breeding programmes. The progress and results of our seed-breeding activities are comparable to other major crops employing similar agronomic techniques.



Constant Innovation

Our focus on creating material with higher harvesting efficiency, including a first-generation (F1) hybrid material to address supply and sustainability issues, has resulted in the development of a Ganoderma-tolerant variety. Sumbio is continuously improving the tolerance and efficacy of our seed materials to face the challenges of the Ganoderma disease.

Established Indonesian Seed Supplier

Our customers can be assured of the authenticity and legitimacy of SumBio branded seed products, which have been successfully planted across 2 million hectares of plantations in Indonesia and overseas. Customers are able to inspect the quality and quantity of their orders before the products are packed and despatched, or collected in person. All orders are packed in robust boxes with security bands that allow the products to be verified on arrival at the customer's nursery.

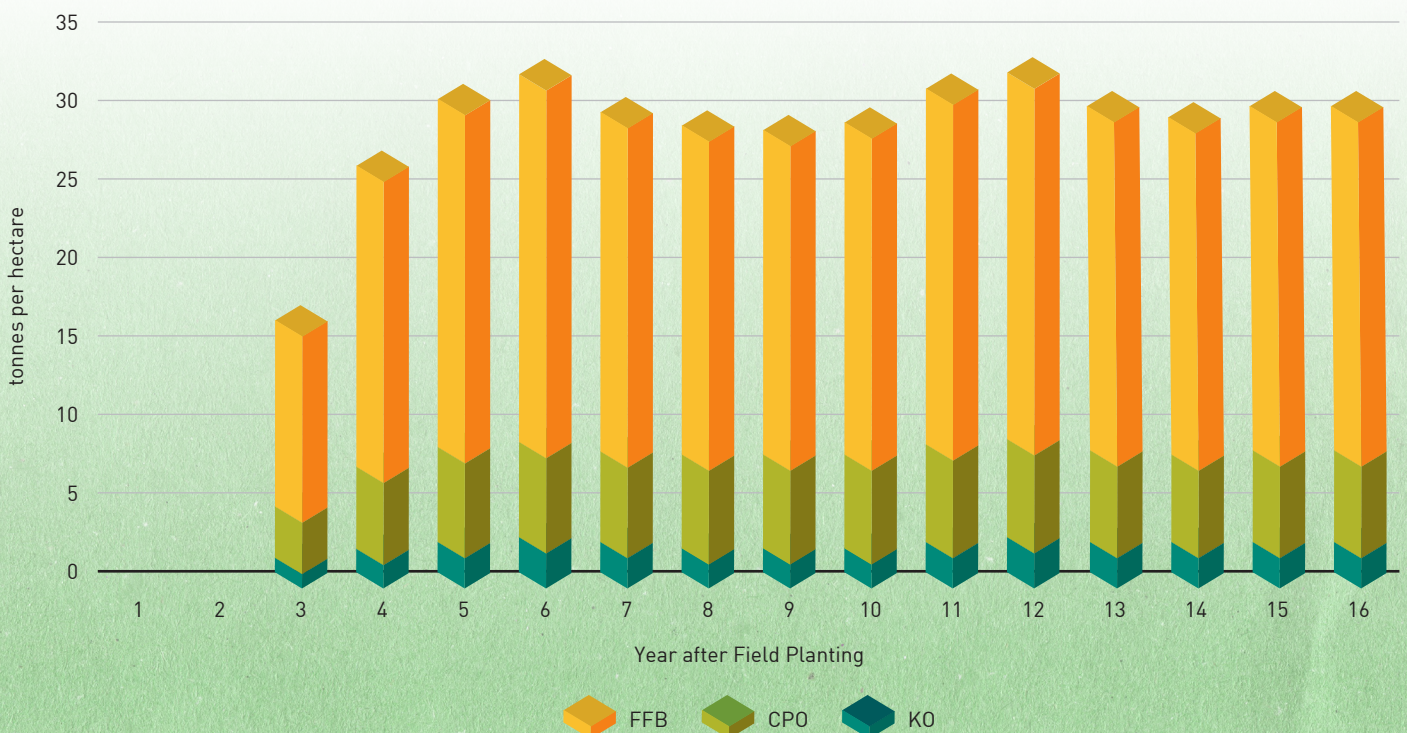


After-Sales Nursery Service

Our staff are able to offer a range of agronomic and crop protection services in addition to site visits to ensure that customers achieve the optimum yields from our planting material.




Average Actual Yield Profile for BLRS Planting Material Planted in North Sumatra



How to order?

Seed orders may be placed through our direct sales channels:

Online Purchase Request Form: <https://www.londonsumatra.com/Contents/research-development>

 08126068055

 seed.sales@londonsumatra.com

 facebook.com/sumbio.lonsum.id

 instagram.com/sumbio.lonsum

SumBio does not appoint sales agents, nor do we retail different grades of heat-treated and untreated seed material. Prices and terms of sale for all germinated seed and seedling products are fixed and non-negotiable.



Where to collect?

- Bah Lias Research Station, Perdagangan, North Sumatra
- Samarinda Seed Germination Unit, East Kalimantan

SumBio guarantees that all germinated seed products are delivered at an optimum development stage for nursery planting.

Sumatra Bioscience

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