



BIOLESTARI

**SELAMATKAN
TANAH ANDA
SELAMATKAN
HASIL ANDA**

**RESCUE YOUR
SOIL,
RESCUE YOUR
YIELD**



INTEX'10
Best Invention



US INPEX
Award of
Excellence



Malaysia Invention
and Design Society



Malaysia Innovative
Product



Best Invention
World Intellectual
Property Organization





BIOFERTILIZER MICROORGANISMS

www.biolestarifertilizer.com

“Pilihan Bijak, Hasil Melimpah”

“The Wise Choice, Abundant Harvest”



Pengenalan / Introduction

BIO LESTARI SDN BHD ("BIO LESATRI") yang merupakan anak syarikat bumiputera 100% yang menjalankan perkhidmatan perbekalan baja bio yang berjenama "BIO LESTARI" sebagai sokongan kepada aktiviti pertanian negara dan keterjaminan makanan. Produk yang dikeluarkan ini merupakan produk 100% menggunakan mikroorganisma yang hidup, pengeluaran pengilangan tempatan dan mendapat pengiktirafan paten daripada World Intellectual Property Organization (WIPO). Penggunaan bio baja ini digunakan oleh semua negara-negara maju Holland, Sepanyol, India, Korea Selatan tetapi penggunaannya sangat terbatas. Di laporkan diperingkat dunia hanya dalam sekitar 10% dan di Malaysia sendiri kurang 5% berbanding penggunaan baja NPK atau baja kimia. Tetapi output kepada penggunaan baja bio yang diperolehi adalah sangat signifikan.

BIO LESTARI SDN BHD ("BIO LESATRI"-202101001818 (1402116-W)) which is a 100% bumiputera subsidiary that runs bio fertilizer supply services branded "BIO LESTARI" in support of the country's agricultural activities and food security. These products are 100% using live microorganisms, locally manufactured production and have received patent recognition from the World Intellectual Property Organization (WIPO). The use of this bio fertilizer is used by all developed countries Holland, Spain, India, South Korea but its use is very

limited. It is reported at the world level only around 10% and in Malaysia itself it is less than 5% compared to the use of NPK fertilizers or chemical fertilizers. But the output to the use of biofertilizers obtained is very significant.

Visi & Misi / Vision & Mission

Visi kami adalah untuk menjadi peneraju dalam teknologi bio-fertilizer yang mampan dan berimpak tinggi di Asia Tenggara, dengan menyokong agenda kerajaan dalam memulihkan kesuburan tanah serta menjamin keselamatan makanan negara.

Our vision is to become the leading provider of sustainable, high-impact bio-fertilizer technology in Southeast Asia, supporting government initiatives on soil restoration and national food security.

Misi kami ialah untuk menyediakan penyelesaian pertanian berasaskan bioteknologi yang mesra alam, meningkatkan pendapatan petani dan mengurangkan jurang kemiskinan di luar bandar.

Our mission is to deliver environmentally friendly, biotechnology-based agricultural solutions that improve farmers' income and reduce rural poverty gaps.

Produk ini juga merupakan jawapan mutlak kepada i) mengangkat aspirasi pelan pertanian nasional untuk para pemain dan pengguna industri pertanian supaya berjaya dan berkesan; ii) mengisi kelompongan penggunaan dan permintaan baja-bio yang terhad kepada pengguna supaya aspirasi pelan nasional sentiasa segar dan sustainability; iii) terbukti secara empirikal bahawa penggunaan baja-bio ternyata meningkatkan darjah kesihatan tanah dengan lebih terjamin lagi mampan dan secara langsung membawa kepada peningkatan pertumbuhan hasil tanaman serta pendapatan dalam jajaran 40%-50% dan iv) boleh menjimatkan kos-kos yang tidak perlu dalam proses-proses seperti penyemaian, penyuburan dan penanaman

This product is also the absolute answer to i) raising the aspirations of the national agricultural plan for the players and users of the agricultural industry to be successful and effective; ii) fill the gap in the consumption and demand of bio-fertilizers that are limited to consumers so that the aspirations of the national plan are always fresh and sustainable; iii) it is empirically proven that the use of bio-fertilizers has improved the health of the soil in a more assured and sustainable way and directly leads to increased crop yield growth and income in the range of 40%-50% and iv) can save unnecessary costs in processes such as gardening, fertilization and planting.

Kesan & Manfaat / Impact & Benefits

Bio Lestari membantu meningkatkan kesuburan tanah, mengurangi keasidan, serta menggalakkan mikroorganisma semula jadi. Penggunaan berterusan dapat meningkatkan hasil tanaman sehingga 40–50% dan mengurangkan kebergantungan kepada baja kimia.

Bio Lestari improves soil fertility, reduces acidity, and promotes natural microbial activity. Continuous use can increase crop yields by 40–50% while reducing dependence on chemical fertilizers.

Beberapa faedah penggunaan baja bio yang diambil daripada penyelidikan-penyelidikan terpilih.

Some of the benefits of using biofertilizers are taken from selected researches:

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Why Use Biofertilisers of Microorganisms		
1. Enhance Soil Fertility Naturally • Microorganisms fix atmospheric nitrogen (e.g. <i>Rhizobium</i>, <i>Azospirillum</i>) and solubilise unavailable phosphorus and potassium, making them accessible to plants. • They restore soil organic matter and nutrient cycling capacity.		
2. Reduce Chemical Fertiliser Dependence • Biofertilisers lower the need for synthetic fertilisers, cutting input costs and reducing the risk of soil degradation and groundwater pollution.		
3. Improve Plant Growth and Yield • They produce plant growth-promoting substances (PGPRs) like auxins, gibberellins, and cytokinins. • Mycorrhizal fungi expand root surface area, improving water and nutrient uptake.		
4. Eco-Friendly and Sustainable • Biofertilisers are biodegradable, non-toxic, and do not cause environmental harm like chemical inputs. • Support climate-smart agriculture by reducing greenhouse gas emissions from chemical fertiliser production.		
5. Improve Soil Structure and Microbial Biodiversity • Microorganisms help aggregate soil particles, enhance aeration, moisture retention, and root penetration. • Encourage a healthy and diverse soil microbiome, essential for long-term soil productivity		
Key References and Research Studies		
Study / Author	Focus	Findings
Vessey, J.K. (2003). <i>Plant and Soil</i> , 255(2), 571-586.	Role of PGPR	Demonstrated PGPR enhance plant growth, nitrogen uptake, and yield.

<i>Bhardwaj et al. (2014). Journal of Applied and Natural Science, 6(2): 495-509.</i>	<i>Biofertiliser overview</i>	<i>Comprehensive review supporting increased crop yield and soil health.</i>
<i>Malusá & Vassilev (2014). Biotechnology Advances, 32(1), 68-91.</i>	<i>Trends in Highlighted improved nutrient use biofertiliser use efficiency and soil quality.</i>	
<i>Adesemoye et al. (2009). Soil Biology and Biochemistry, 41(2), 281-288.</i>	<i>Synergy with fertilisers</i>	<i>Combining biofertiliser with reduced chemical fertiliser improved crop productivity.</i>
<i>Singh et al. (2011). African Journal of Agricultural Research, 6(17), 3883-3886.</i>	<i>Field application</i>	<i>Field trials on legumes showed significant yield improvements with microbial inoculants.</i>
<i>FAO (2021). The Status of the World's Soil Resources.</i>	<i>Global context</i>	<i>Supports the adoption of biofertilisers to improve degraded soils.</i>

Kerjasama Strategik & Teknologi / Strategic Partnership & Technology

Bio Lestari memiliki kerjasama dengan Agribiotech Sdn Bhd, sebuah syarikat pengeluar baja pertanian tempatan sepenuhnya. Bio Lestari terhasil daripada inovasi dan teknologi baja terkini yang menumpukan kepada kelestarian tanah dan peningkatan hasil tanaman.

Bio Lestari collaborates with Agribiotech Sdn Bhd, a fully local agricultural fertilizer producer. The brand is the result of innovation and advanced fertilizer technology focusing on soil sustainability and yield improvement.

Bio Lestari adalah penjenamaan semula produk berasaskan baja bagi pasaran kerajaan. Ia merupakan kesinambungan kepada produk Biobooster Plus yang telah dikenali di rantau ASEAN seperti Kemboja, Indonesia, Thailand dan Filipina.

Bio Lestari is a rebranded product line for the government market. It continues the success of Biobooster Plus, a well-known product across ASEAN countries such as Cambodia, Indonesia, Thailand, and the Philippines.

Kandungan Bio Lestari / Ingredients of Bio Lestari Product Overview

Bio Lestari diformulasi dengan gabungan tujuh kumpulan bakteria aktif (7B) yang berfungsi memperbaiki struktur tanah, meningkatkan penyerapan nutrien, serta menggalakkan pertumbuhan akar yang sihat. Ia sesuai digunakan untuk semua jenis tanaman termasuk padi, getah, kelapa sawit, buah-buahan dan sayur-sayuran.

Bio Lestari is formulated with a blend of seven active bacterial groups (7B) that improve soil structure, enhance nutrient absorption, and promote healthy root development. It is suitable for all crop types including paddy, rubber, oil palm, fruits, and vegetables.

<i>Common Microorganisms Used in Biofertilizers</i>	
<i>Microorganism</i>	<i>Function</i>
<i>Rhizobium</i>	<i>Nitrogen fixation in legumes</i>
<i>Azotobacter, Azospirillum</i>	<i>Nitrogen fixation in cereals</i>
<i>Phosphobacteria (e.g. Bacillus megaterium)</i>	<i>Phosphate solubilisation</i>
<i>Mycorrhizae</i>	<i>Improved nutrient and water uptake</i>
<i>Trichoderma spp.</i>	<i>Plant disease suppression and growth promotion</i>

Anugerah & Pengiktirafan / Awards & Recognitions

Produk Bio Lestari telah menerima pelbagai pengiktirafan tempatan dan antarabangsa seperti:

- INTEX 10 – Best Invention Award
- Anugerah Kecemerlangan US INPEX
- Pingat Emas Intex 10 (Malaysian Invention and Design Society)
- Best Invention (World Intellectual Property Organization)
- InnoCERT AA1
- Bionexus Status Company oleh Biotech Corporation

Bio Lestari has been honored with numerous national and international awards including:

- INTEX 10 – Best Invention Award**
- US INPEX Excellence Award**
- INTEX 10 Gold Medal (Malaysian Invention and Design Society)**
- Best Invention (World Intellectual Property Organization)**
- InnoCERT AA1**
- BioNexus Status Company by Biotech Corporation**

Maklumat Korporat / Corporate Information

Nama Syarikat / Company Name: Bio Lestari Fertilizer Sdn Bhd

Tahun Penubuhan / Year Established: [January 2021]

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Fact Findings / Penemuan Fakta

1 Definition

Biotertilizer microorganisms living beneficial microbes (bacteria, fungi, algae) that enhance plant growth by increasing nutrient availability in the soil. Unlike chemical fertilizers, they work through natural processes.



2 Major Groups of Microorganisms

Type	Microorganism Example	Primary Function	Target Crops
Nitrogen fixing bacteria	<i>Rhizobium</i>	Convert atmospheric nitrogen into NH_4^+ form	Legumes, paddy
Phosphate-solubilizing bacteria (PSB)	<i>Bacillus megaterium</i>	Convert insoluble phosphate into soluble form	All crops
Potassium-solubilizing bacteria (RSB)	<i>Frateuria aurantia</i>	Release K from minerals	Plantation crops
Mycorrhizal fungi	<i>Glomus</i> spp.	Enhance silica to strengthen plant cells	Rice, sugar
Silicate-solubilizing bacteria	<i>Trichoderma harzianum</i>	Induces systemic resistance in plants	Rubber, cocoa
Cyanobacteria (Blue Green Algae)	<i>Anabaena</i>	Reduces dependence on chemical fertilizers by 30-80%	Paddy fields

3 Economic Impact

Short-Term (1-2 years)	1.7-40%
Input Cost	20-40% reduction
Yield Gain	10-25%
ROI	1.3-3x
Soil Fertility	Gradual improvement

5 Global Adoption

- IoT & AI sensors used for fertilizers
- Drone application for uniform spraying
- Precision nutrient maps for targeted soil treatment

5 Global Adoption

- India: >12% farmers use biotertilizers in 2023 (SS/MSA)
- Adoption growing under MAFI's Sustainable Fertilizer Initiative

6 Integration with Smart Agriculture

- IoT & AI sensors to track soil microbiome activity
- Drone application for uniform spraying

SCIENTIFIC JUSTIFICATION: SHORT-TERM ROI AND YIELD

SOLUBLE IMMEDIATE PLANT UPTAKE

- Chemical fertilizers are highly soluble; instantly available to plants. However, they are absorbed instantaneously, even though plants absorb them gradually.
- Although it is difficult to directly compare chemical NPK fertilizers (which increase rice growth rate by 25-40% within 2 planting cycles) with biofertilizer production, the latter shows faster growth.
- Although the soil fertility of biofertilizers is not immediate, it becomes agronomically significant after 5-10 years of use.

ECONOMIC JUSTIFICATION

- Farmers operate within seasonal cash flow cycles; biofertilizers are absorbed gradually, allowing for precise dosage and measurable response.
- Contrast: biofertilizers often produce microbial colonization effects, which vary with temperature, pH, and moisture. Outcomes are slower but more sustainable.
- Farmers thus view chemical fertilizers as a risk-minimizing tool for immediate yield assurance.

ECONOMIC JUSTIFICATION

CONTROLLED FORMULATION APREDICTABLE OUTCOMES

- Chemical fertilizers are standardized (e.g., NPK 15-15-15, 14-22-17) with known nutrient ratios, allowing precise dosage and measurable responses.
- Biofertilizers rely on microbial colonization, which varies with temperature, pH, and moisture. Outcomes are slower but more sustainable.
- Farmers thus view chemical fertilizers as a risk-minimizing tool for immediate yield assurance.

LONG-TERM DATA CONTRAST (BALANCED CONCLUSION)

	Short-Term (1-2 years)	Long-Term (5-10 years)
Yield	+25-40%	Decline
Soil pH	25-40%	6.5-5.0
Microbial biomass	Stable	40-60%
Nutrient efficiency	70%	<40%

SOIL CHEMISTRY JUSTIFICATION

BUFFERING AND HIDDEN ACIDITY

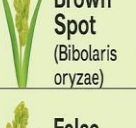
- In many tropical soils with high buffering capacity (clay-rich, high organic matter), the acidification effect of temporary masked.
- Consequently, farmers perceive that chemical fertilizers do not bother soil pH, because pH changes are gradual and only with long-term monitoring.

SYNTHESIS JUSTIFICATION (BALANCED CONCLUSION)

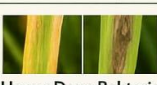
Chemical fertilizers remain dominant because they deliver fast-measurable productivity gains and predictable short-term returns.

SYNTHESIS JUSTIFICATION (BALANCED CONCLUSION)

Chemical fertilizers remain dominant because they deliver fast-measurable productivity gains and predictable short-term returns. Even though they gradually degrade soil health and pH stability, biofertilizers remain a strong long-term soil balance and microbial vitality. But require patience, knowledge transfer and supportive policies to be adopted.

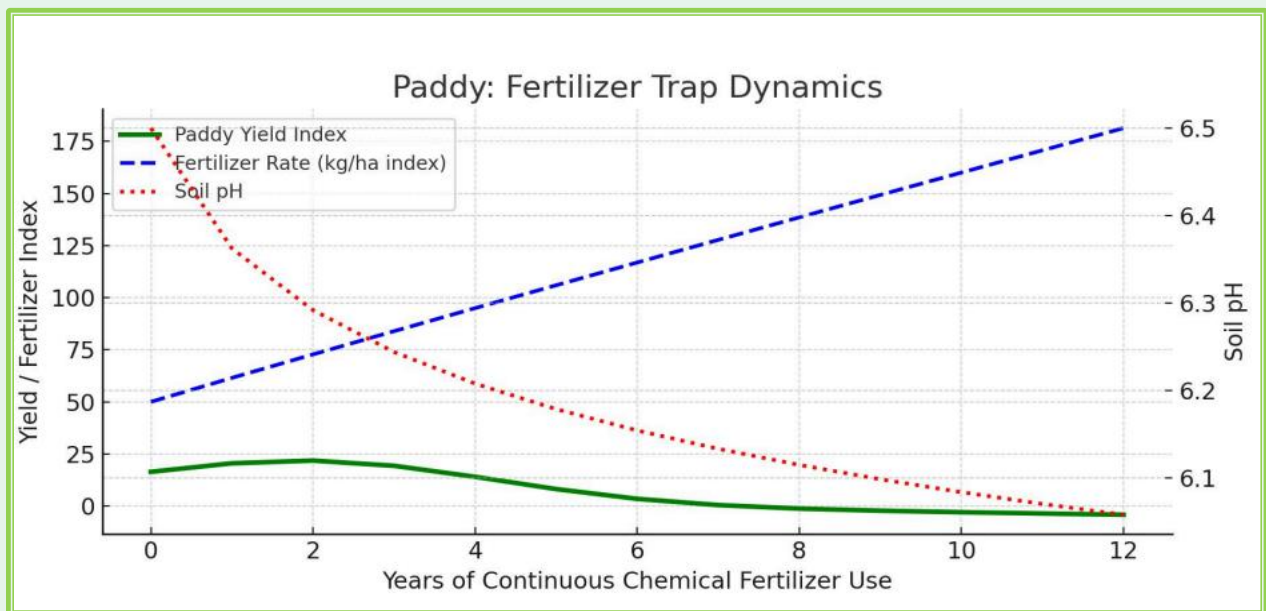
Penyakit Padi	Bio-Mikroorganisme Sesuai	Kesan Penurunan Penyakit	Anggaran Hasil Padi Setelah Kawalan
 Blas Padi (Rice Blast)	<i>Trichoderma harzianum</i> <i>Bacillus subtilis</i> , <i>Pseudomonas fluorescens</i>	↓ 45-65%	Hasil meningkat dari ±3.5 t/ha → 4,8-5,2 t/ha
 Hawar Daun Bakteria (Bi B)	<i>Pseudomonas fluorescens</i> <i>Bacillus subtilis</i> , <i>Burkholderia cepacia</i>	↓ 40-55%	Hasil naik dari ±3.0 t/ha → 5,0 t/ha
 Hawar Seludang (Sheath Blight)	<i>Trichoderma viride</i> , <i>Trichoderma asperellum</i> , <i>Bacillus subtilis</i>	↓ 50-70% Penurunan v/ktor ↓ 40% - 40%	Hasil meningkat dari ±4.0 t/ha → 5,3 t/ha
 Tungro Virus (Bisasa dari Mispheoreste)	<i>Metarhizium anisopliae</i> , <i>Beauveria bassiana</i>	↓ 30-45%	Hasil meningkat dari ±3.2 t/ha → 4,5 t/ha
 Brown Spot (<i>Bipolaris oryzae</i>)	<i>Trichoderma harzianum</i> , <i>Bacillus subtilis</i> , <i>Azotobacter chroococcum</i>	↓ 40-55%	Hasil naik dari ±3.2 t/ha → 4,8 t/ha
 False Smut	<i>Trichoderma asperellum</i> , <i>Bacillus velezensis</i>	↓ 40-55%	Hasil naik dari ±3.6 t/ha → 4,8 t/ha

PENYAKIT PADI vs BIO-MIKROORGANISMA

PENYAKIT PADI	PATOGEN	BIO-MIKROORGANISMA	MEKANISME KAWALAN
 Blas Padi (Rice Blast)	<i>Magnaporthe oryzae</i>	<i>Trichoderma harzianum</i> , <i>Bacillus subtilis</i> , <i>Pseudomonas fluorescens</i>	Antagonisme kulat (enzim pelerakan dinding sel), penghasilan antibiotik, induksi ketahanan sistemik (ISR)
 Hawar Daun Bakteria (Bacterial Leaf Blight BLB)	<i>Xanthomonas oryzae</i> pv. <i>oryzae</i>	<i>Pseudomonas fluorescens</i> , <i>Bacillus</i> , <i>Burkholderia cepacia</i>	Menghasilkan siderofor & antibiotik, menghalang pertumbuhan bakteria, meningkatkan imuniti pokok
 Hawar Seludang (Sheath Blight)	<i>Rhizoctonia solani</i>	<i>Trichoderma viride</i> , <i>Trichoderma asperellum</i> , <i>Bacillus subtilis</i>	Persaingan ruang & nutrien, kolonisasi akar, lisis hifa patogen
 Tungro Virus	'Virus Tungro Padi'	<i>Metarhizium anisopliae</i> , <i>Beauveria bassiana</i>	Mengawal serangga vektor (leafhopper), mengurangi penyebaran virus
 Brown Spot	Brown Spot	<i>Trichoderma harzianum</i> , <i>Bacillus subtilis</i> , <i>Azotobacter chroococcum</i>	Menekan pertumbuhan kulat, memperbaiki kesihatan tanah, meningkatkan fotosintesis
 False Smut	False Smut	<i>Trichoderma asperellum</i> , <i>Bacillus velezensis</i>	Antagonisme kulat, penghasilan metabolit organik, meningkatkan daya tahan pokok

What is the “fertilizer trap”? A self-reinforcing cycle where farms **apply more and more chemical fertilizer to maintain yields**, but **get less response per unit** and **gradually damage soil health** (acidification, nutrient imbalance, microbial loss). Over time, yields **plateau or decline**, yet input dependence increases—locking farmers into high costs and fragile productivity.

Analysis / An Analysis



1. Paddy (Rice)

◊ *Fertilizer–Yield–pH Dynamics*

- **Initial years (0–2):**
Paddy responds strongly to chemical NPK (especially urea), showing **steep yield gains** because nitrogen deficiency is common in paddy soils. The yield curve rises rapidly as soil nutrients become instantly available.
- **Mid-term (3–6 years):**
 - Soil pH starts dropping from ~6.5 → ~5.5 due to continuous **ammonium nitrification** releasing H^+ ions.
 - Iron and aluminum become more soluble, reducing phosphorus availability.
 - Microbial diversity (especially *Rhizobium*, *Azospirillum*, *Trichoderma*) declines.
 - Yield plateaus even when fertilizer rate increases — indicating **falling Nitrogen Use Efficiency (NUE)**.
- **Long-term (7–10 years):**
 - pH can reach below 5.0 if unmanaged, causing **toxic Fe^{2+} and Mn^{2+} accumulation**.
 - Paddy roots brown prematurely, disease susceptibility increases (blast, sheath blight).

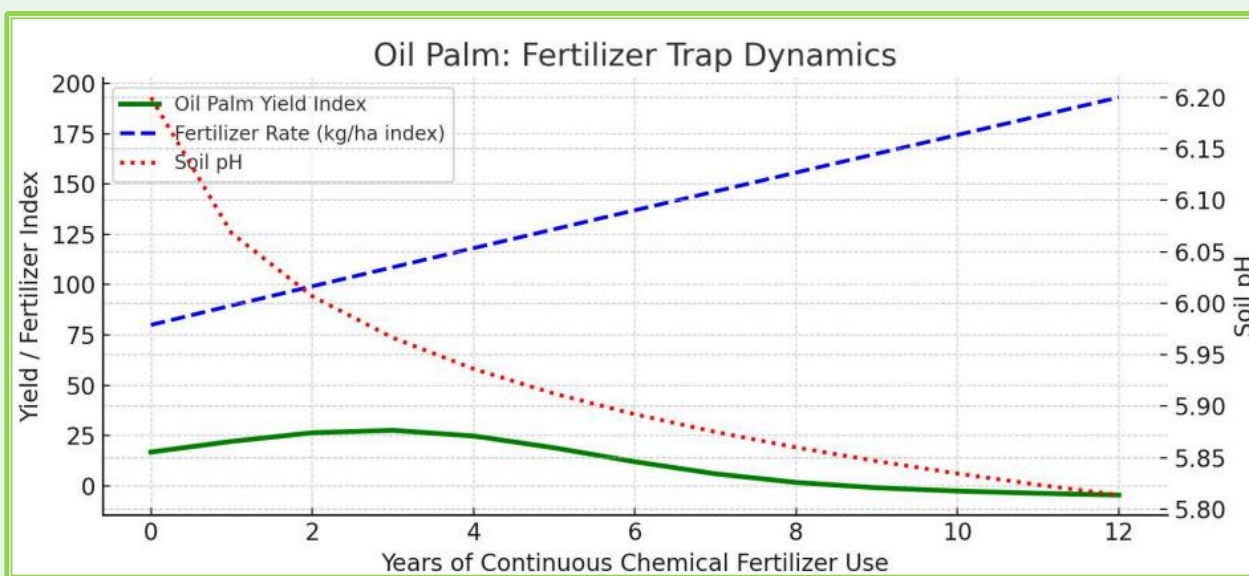
- Fertilizer cost per tonne of yield rises sharply — the **fertilizer trap**.
- Soil structure weakens, reducing water infiltration and aeration.

◇ Key Indicators

Parameter	Early	Mid	Late
Soil pH	6.5	5.7	4.9
NUE (%)	60–70	45–50	35–40
Yield (t/ha)	6.5	6.8	6.0
N Fertilizer	120	180	240

◇ Recommendations

- Rotate rice with **legumes (mungbean/soybean)** to restore N and organic matter.
- Apply **lime or dolomite** every 3–4 years to buffer pH >5.8.
- Use **biofertilizer consortia** (*Azospirillum*, *Phosphobacteria*, *Trichoderma*).
- Incorporate **green manure or straw compost** to rebuild carbon and microbial activity.



🌴 2. Oil Palm

◇ Fertilizer–Yield–pH Dynamics

- **Early phase (0–3 years):**
Fertilizers (NPKMg and borate) rapidly enhance frond and root development, giving **yield acceleration** up to years 3–5.
- **Mid-term (4–7 years):**
 - The yield curve plateaus despite higher fertilizer input.
 - Soil pH drops from ~6.2 → 5.3 due to continuous ammonium nitrate/sulfate application.

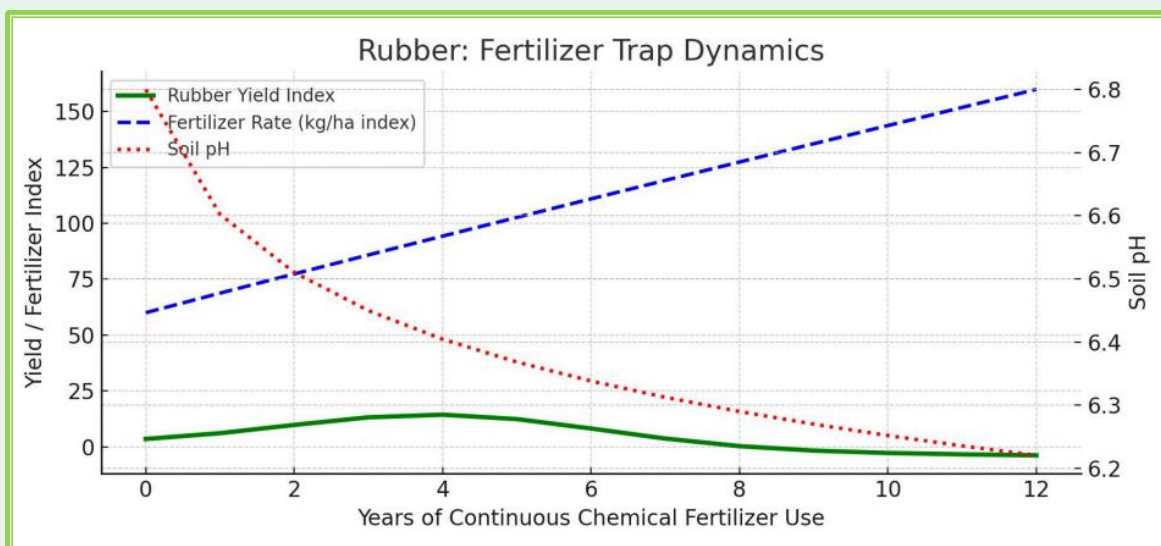
- K and Mg imbalances appear; leaching increases on sandy soils.
- Microbial decline reduces root efficiency and nutrient uptake.
- **Long-term (8–12 years):**
 - **Yield stagnation or decline** observed even with heavy fertilizer inputs.
 - High soil acidity (pH <5.0) limits root volume, especially under compacted or waterlogged conditions.
 - Palm oil extraction rate (OER) drops slightly due to poorer bunch quality.
 - Nutrient-use efficiency drops; more fertilizer needed to maintain same FFB (Fresh Fruit Bunch) tonnage — a clear **fertilizer trap**.

◇ **Key Indicators**

Parameter	Early	Mid	Late
Soil pH	6.2	5.5	4.9
Yield (FFB/20)		28	25
Fertilizer (kg/ha)	600	900	1200
Mg/K balance	Stable	Imbalanced	Critical

◇ **Recommendations**

- Apply **empty fruit bunch (EFB) compost** or **palm oil mill effluent (POME) bio-sludge** to boost organic matter.
- Introduce **N-fixing legume cover crops** (*Mucuna bracteata*, *Calopogonium*) for biological N.
- Use **biofertilizer microorganisms** (*Bacillus*, *Pseudomonas*, *Azospirillum*) to mobilize P, K, and micronutrients.
- Apply **dolomitic lime or GML** to maintain soil pH >5.5.
- Reduce chemical fertilizer dosage by **30–40%** under integrated nutrient management (INM).



🌿 **3. Rubber**

◇ **Fertilizer–Yield–pH Dynamics**

- **Early years (0–3):**
Chemical fertilizers (especially N and P) promote canopy growth and latex initiation. Yield increases moderately as trees mature.
- **Mid-term (4–7):**
 - pH declines steadily from 6.8 → 5.5 due to continuous ammonium-based fertilizers and limited liming.
 - Soil microbial imbalance reduces root vigor; leaf litter decomposition slows.
 - Latex yield stabilizes or shows marginal gains despite higher inputs.
- **Long-term (8–12):**
 - pH <5.0 triggers **Mg and Ca deficiency**, weakening bark health.
 - Latex yield per tree begins to decline.
 - Soil compaction from machinery worsens the problem.
 - Farmers often double fertilizer application rates to compensate — but yield remains flat or drops — the **rubber fertilizer trap**.

◇ *Key Indicators*

Parameter	Early	Mid	Late
Soil pH	6.8	5.5	4.9
Latex yield (kg/tree)	3.5	4.2	3.6
Fertilizer (kg/tree)	0.7	1.0	1.5

◇ *Recommendations*

- Introduce **cover crops** (e.g. *Pueraria phaseoloides*) to restore carbon and N.
- Apply **biofertilizers** (*Trichoderma*, *Azotobacter*, *Bacillus megaterium*) annually.
- Periodic **liming** to sustain pH around 6.0.
- Incorporate **rubber leaf compost + goat manure** to enhance organic carbon.
- Use controlled-release or slow-release fertilizers to minimize losses.



COMPANIES ACT 2016
(ACT 777)

**CERTIFICATE OF INCORPORATION
OF PRIVATE COMPANY**

This is to certify that

BIO LESTARI SDN. BHD.
202101001818 (1402116-W)

is, on and from the 15th day of January 2021, incorporated under the Companies Act 2016, and that the company is a company limited by shares and that the company is a private company.

Dated at **KUALA LUMPUR** this 28th day of July 2025.



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DATUK NOR AZIMAH ABDUL AZIZ
REGISTRAR



BIOFERTILIZER MICROORGANISMS

www.biolestarifertilizer.com

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Nama Syarikat / Company Name: Bio Lestari Fertilizer Sdn Bhd

Tahun Penubuhan / Year Established: [January 2021]

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