



# MULTIPLYING PROFITABILITY FOR CHILLI CROP CULTIVATION

Indonesia & Malaysia

24-72hr Plant-Integrated Bioconversion | Zero Synthetic Inputs, Pure Bio-Catalysis  
Official Website: <https://www.iBioStim.com>

# Chilli/Bell Peppers Production

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**We provide innovative agricultural solutions for chilli and bell pepper cultivation across Indonesia and Malaysia, leveraging farm-proven (Asia, EU & US) proprietary organic commercial inputs to multiply profitability. Our approach harmonizes with plant biochemistry to stimulate natural growth processes, resulting in:**

- Healthier, more robust crops with improved nutrient uptake from soil and foliar treatments
- Reduced dependence on agrochemical inputs throughout cultivation cycles
- Sustained high yields over extended production periods (12 months in Malaysia, 24 months in Indonesia)

By optimizing plants' inherent biological mechanisms rather than overriding them, we enable growers to achieve superior crop performance while minimizing synthetic input costs.

## Highlights

### 1. Extension of Production Period (Soil Cultivation)

Indonesia: From original 12 months to 24 months.

Malaysia: From original 6 months to 12 months.

### 2. Yield Booster

From baseline of 0.8-1.2kg per plant (variety dependent) to between 2-3kg per plant.

### 3. Elevated Organoleptic Taste

Crops under iBioStim™ production regime (pesticides free) delivers consistently 1.3x elevated nutrient density (flavonoids) at harvest.

#### 4. 4-Months Replanting Time Saving

It takes 30days in the nursery before transplanting into the field for production, another 3 months before first harvest. Extension of production cycle translated into time saving of 4 months.

# Our Bio-Enzymatic Plant CPR Process

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Our revolutionary approach follows a three-step process that transforms plant health from the inside out:

## 1. CLEANSE

A 72-hour phytochemical detoxification that removes accumulated stress compounds and prepares the plant's systems for optimal function.

## 2. PRIME

Vascular-system micronutrient infusion that delivers precisely calibrated nutrients directly to where they're needed most, bypassing traditional uptake limitations.

## 3. REGENERATE

Activation of the plant's native microbiome to achieve 1.3x nutrient density, strengthening natural defence mechanisms and enhancing growth potential.

### Chilli Farms, Asia:

"I am satisfied with an ROI  $\geq 10$  at my 100 hectares chilli farms."

# Activity

## Plant Health

Our organic blends optimize the natural balance between plant growth and self-defense systems, creating crops that stay fresh longer and taste better – helping every type of plant reach peak performance.

## Lowering Activation Energy

Our enzyme-powered formulas work like natural spark plugs for plants. By helping fertilizers break down faster and more completely, they:

- Make nutrients 62% more usable by crops within 1-3 days
- Work equally well with any fertilizer type
- Maintain effectiveness in droughts, floods, or temperature swings

Unlike treatments relying on live microbes (which can die or change behaviour), our bioenzyme solutions deliver consistent results season after season.

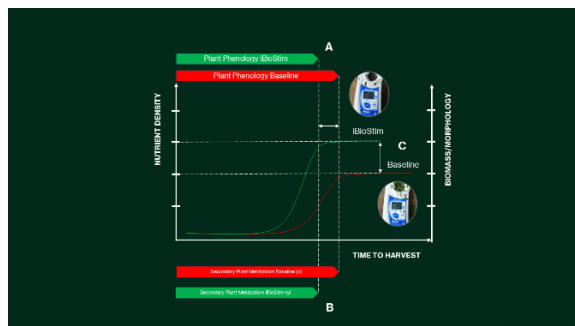


Figure 1. Comparing effects of traditional organic/conventional food production baseline against **iBioStim™** regime, showing reduced time to harvest with elevated nutrient density and biomass.

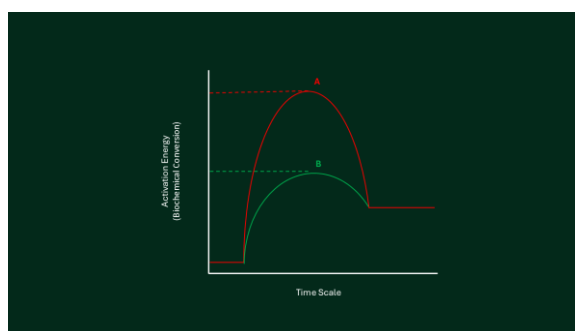


Figure 2. Comparing reduced activation energy barrier for biochemical conversion of fertilisers in an endothermic reaction on **iBioStim™** regime, giving rise to physiological modification onset within 24-72hr after first application.

## Methods (Soil Cultivation)

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A combination of 4 commercial products is used for chilli/bell pepper cultivation, namely, Mr Carbon, Junior, Junior Plus and Baby on soil cultivation. No additional fertilisation required.

### 1. Volume of iBioStim™ Concentrate

Prepare Mr Carbon (0.5L), Junior (0.33L), Junior Plus (0.33L) and Baby (0.33L) in a 100L water tank on the same day of application. Top up to 100L using clean water.

### 2. Application Frequency

Apply weekly soil and foliar spray, at 0.1L per plant, after transplanting from nursery into the field.

### 3. Companion Plants

Integrate basil/mint/rosemary as natural pest repellent for complete reduction of agrochemicals to zero.

## Methods (Substrate Cultivation)

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A combination of 5 commercial products is used for chilli/bell pepper cultivation, namely, Mr Carbon, Junior, Junior Plus, Baby and Genie on substrate cultivation. No additional fertilisation required.

### 1. Volume of iBioStim™ Concentrate (Foliar Spray Only)

Prepare Mr Carbon (0.5L), Junior (0.33L), Junior Plus (0.33L) and Baby (0.33L) in a 100L water tank on the same day of application. Top up to 100L using clean water.

### 2. Volume of iBioStim™ Concentrate (Drip Irrigation Only)

Prepare Genie (0.33L) in a 100L water tank on the same day of application. Top up to 100L using clean water.

### 3. Application Frequency

Apply weekly drip irrigation and foliar spray, at 0.1L per plant, after transplanting from nursery into the field.

### 4. Companion Plants

Integrate basil/mint/rosemary as natural pest repellent for complete reduction of agrochemicals to zero.

# Triple-Impact Solution

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**iBioStim™** integrates triple-impact chilli/bell pepper solution for weekly application, targeting yield and nutrient density improvement through total integration.

By engineering both yield and nutrient density improvement at the biochemical level, we eliminate harvest security risk factors for elevated profitability across the entire value chain.

## Key Benefits

### 1. Severe Precipitation Resistant

Compensates for plant stress by supplementing high quality amino acids and micro nutrients.

### 2. Cellular Regeneration

Effect plant repair at the cellular level to restore primary metabolism (using glyphosate as a litmus test).

### 3. Cold Weather Resistant

Build complex carbohydrates in-plant to negate effects due to mercury dip below 14°C (until minus 3°C), a temperature at which chilli/bell pepper plants will succumb immediately.

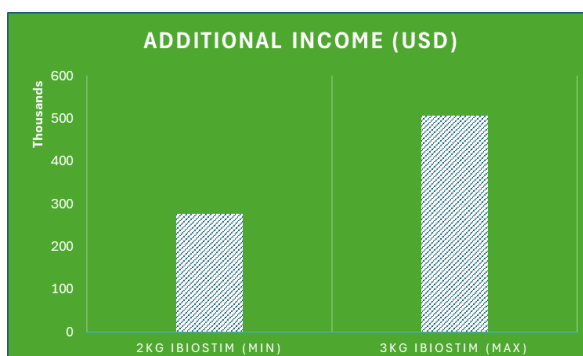


# Economics

Profitability is key to long term sustainability and the ability to measure the material impact of chilli/bell pepper production on bottom-line is crucial to continued success. Data is presented in the first principles (based on actual farm performance) in Indonesia and Malaysia as follows:

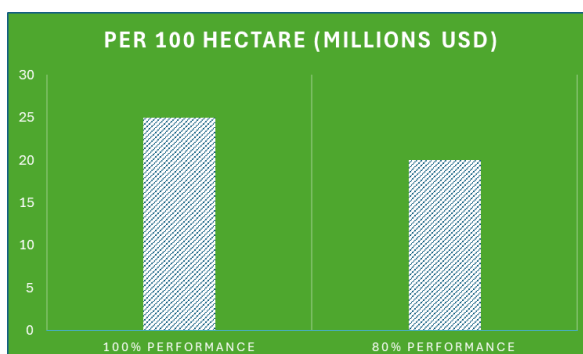
## Additional Income Per Hectare

On a planting density of 13,000 plants per hectare and a wholesale price of USD 2.21K/MT, additional income of USD 275K (2kg/plant) and USD 505K (3kg/plant) is achieved.



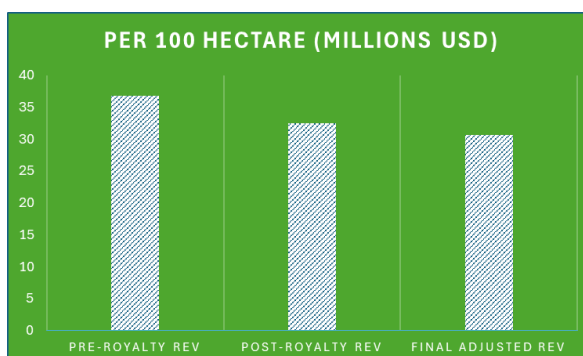
## Net Income Per 100 Hectare

Net income on an annual basis is equivalent to USD 25M and USD 20M at 100% and 80% performance, respectively.



## Revenue Per 100 Hectare

Total Revenue on an annual basis is equivalent to USD 36.8M (Pre-Royalty), USD 32.5M (Post-Royalty) and USD 30.6M (Final Adjusted), respectively.





# JUST BETTER

Creating Profitability Across The Entire Value Chain

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