

# Indian Bio Agriculture Market Report by Segment (Transgenic Crops, Biofertilizers, Biopesticides), and Region 2024-2032

<https://marketpublishers.com/r/I306BBCC06D0EN.html>

Date: April 2024

Pages: 118

Price: US\$ 2,699.00 (Single User License)

ID: I306BBCC06D0EN

## Abstracts

The Indian bio agriculture market size reached INR 66,793.6 Million in 2023. Looking forward, IMARC Group expects the market to reach INR 118,426.7 Million by 2032, exhibiting a growth rate (CAGR) of 6.4% during 2024-2032. Favorable government initiatives, escalating consumer awareness regarding the benefits of practicing bio agriculture, and the rising demand for organic food products represent some of the key factors driving the market.

Bio agriculture, popularly known as organic farming, primarily employs natural inputs and sustainable practices to produce crops and livestock. It helps reduce the negative impact of conventional agriculture on the environment by promoting biodiversity, conserving natural resources, and avoiding the use of synthetic chemicals and genetically modified organisms (GMOs). In addition to this, it relies on a combination of techniques and practices, such as crop rotation, intercropping, green manure, composting, and biological pest control, to maintain soil fertility and regulate various pests and diseases. Bio agriculture maintains a balance between agriculture and the environment, preserves natural habitats, reduces soil erosion, and minimizes air and water pollution. Currently, there is an expanding adoption of bio agriculture in India as it relies on renewable energy resources and helps decrease global warming levels.

### Indian Bio Agriculture Market Trends:

The introduction of favorable initiatives, such as the National Programme on Organic Farming and the Paramparagat Krishi Vikas Yojana, by the Government of India (GoI) to promote bio-agriculture in the country through financial assistance to farmers represents the prime factor driving the market growth. Besides this, the rising population, rapid urbanization, inflating disposable income of individuals, and the

growing demand for organic food on account of its numerous health benefits are creating a favorable outlook for the market. Moreover, the depleting levels of soil fertility in the country are fueling the adoption of bio-agriculture practices, leading to the development of agricultural biologicals, which include microorganisms, enzymes, biochemicals, biofertilizers, biopesticides, and biostimulants. This, in confluence with changing climate conditions and increasing scarcity of water resources, is contributing to the market growth. Concurrent with this, the escalating consumer awareness about the advantages of sustainable agriculture and the surging demand for breeding nutritious, high-yielding, and less resource-input-demanding crops are acting as significant growth-inducing factors. In addition to this, continuous technological advancements in bio agriculture technology, such as the development of bio-fertilizers and bio-pesticides, are presenting remunerative growth opportunities for the market. Furthermore, the widespread product adoption for promoting crop diversification and agroforestry, supportive non-governmental organizations (NGOs) activities, and the extensive export opportunities for organic food in the international market are aiding in market expansion.

#### Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the Indian bio agriculture market report, along with forecasts at the country and regional level from 2024-2032. Our report has categorized the market based on segment.

#### Segment Insights:

Transgenic Crops

Biofertilizers

Biopesticides

The report has provided a detailed breakup and analysis of the bio agriculture market based on the segment. This includes transgenic crops, biofertilizers, and biopesticides. According to the report, transgenic crops represented the largest segment.

#### Regional Insights:

North India

South India

East India

West India

The report has also provided a comprehensive analysis of all the major regional markets, which include North, South, East, and West India. According to the report, West India was the largest market for Indian bio agriculture. Some of the factors driving the West India bio agriculture market in India included escalating consumer awareness regarding the benefits of bio agriculture, rising population and urbanization, and ongoing technological advancements in the industry.

#### Competitive Landscape:

The report has also provided a comprehensive analysis of the competitive landscape in the global bio agriculture market. Competitive analysis such as market structure, market share by key players, player positioning, top winning strategies, competitive dashboard, and company evaluation quadrant has been covered in the report. Also, detailed profiles of all major companies have been provided. For each of the companies covered, the report provides business overview, services offered, business strategies, financials, SWOT analysis, and major news and events.

#### Key Questions Answered in This Report:

How has the Indian bio agriculture market performed so far, and how will it perform in the coming years?

What are the drivers, restraints, and opportunities in the Indian bio agriculture market?

What is the impact of each driver, restraint, and opportunity on the Indian bio agriculture market?

What is the breakup of the market based on the segment?

Which is the most attractive segment in the Indian bio agriculture market?

What is the competitive structure of the Indian bio agriculture market?

Who are the key players/companies in the Indian bio agriculture market?

## Contents

### **1 PREFACE**

### **2 SCOPE AND METHODOLOGY**

- 2.1 Objectives of the Study
- 2.2 Stakeholders
- 2.3 Data Sources
  - 2.3.1 Primary Sources
  - 2.3.2 Secondary Sources
- 2.4 Market Estimation
  - 2.4.1 Bottom-Up Approach
  - 2.4.2 Top-Down Approach
- 2.5 Forecasting Methodology

### **3 EXECUTIVE SUMMARY**

### **4 INTRODUCTION**

- 4.1 Overview
- 4.2 Key Industry Trends

### **5 INDIAN BIO AGRICULTURE MARKET**

- 5.1 Market Overview
- 5.2 Market Performance
  - 5.2.1 Value Trends
  - 5.2.2 Volume Trends
- 5.3 Impact of COVID-19
- 5.4 Market Breakup by Segment
- 5.5 Market Breakup by Region
- 5.6 Market Forecast
- 5.7 SWOT Analysis
  - 5.7.1 Overview
  - 5.7.2 Strengths
  - 5.7.3 Weaknesses
  - 5.7.4 Opportunities
  - 5.7.5 Threats

## 5.8 Value Chain Analysis

### 5.8.1 Overview

### 5.8.2 Research and Development

### 5.8.3 Inputs

### 5.8.4 Production

### 5.8.5 Marketing

### 5.8.6 Distribution

### 5.8.7 End-Use

## 5.9 Porters Five Forces Analysis

### 5.9.1 Overview

### 5.9.2 Bargaining Power of Buyers

### 5.9.3 Bargaining Power of Suppliers

### 5.9.4 Degree of Competition

### 5.9.5 Threat of New Entrants

### 5.9.6 Threat of Substitutes

## 5.10 Price Analysis

### 5.10.1 Key Price Indicators

### 5.10.2 Price Structure

### 5.10.3 Margin Analysis

## 6 MARKET BREAKUP BY SEGMENT

### 6.1 Transgenic Crops

#### 6.1.1 Current and Historical Market Trends

#### 6.1.2 Competitive Landscape

#### 6.1.3 Market Forecast

### 6.2 Biofertilizers

#### 6.2.1 Current and Historical Market Trends

#### 6.2.2 Competitive Landscape

#### 6.2.3 Market Forecast

### 6.3 Biopesticides

#### 6.3.1 Current and Historical Market Trends

#### 6.3.2 Competitive Landscape

#### 6.3.3 Market Forecast

## 7 MARKET BREAKUP BY REGION

### 7.1 North India

#### 7.1.1 Market Trends

- 7.1.2 Market Forecast
- 7.2 South India
  - 7.2.1 Market Trends
  - 7.2.2 Market Forecast
- 7.3 East India
  - 7.3.1 Market Trends
  - 7.3.2 Market Forecast
- 7.4 West India
  - 7.4.1 Market Trends
  - 7.4.2 Market Forecast

## **8 COMPETITIVE LANDSCAPE**

- 8.1 Market Structure
- 8.2 Key Players
- 8.3 Profiles of Key Players

## List Of Tables

### LIST OF TABLES

Table 1: India: Bio Agriculture Market: Key Industry Highlights, 2023 and 2032

Table 2: India: Bio Agriculture Market Forecast: Breakup by Segment (in Million INR), 2024-2032

Table 3: India: Bio Agriculture Market Forecast: Breakup by Region (in Million INR), 2024-2032

Table 4: India: Bio Agriculture Market: Competitive Structure

Table 5: India: Bio Agriculture Market: Key Players

## List Of Figures

### LIST OF FIGURES

Figure 1: India: Bio Agriculture Market: Major Drivers and Challenges

Figure 2: India: Bio Agriculture Market: Sales Value (in Million INR), 2018-2023

Figure 3: India: Bio Agriculture Market: Sales Volume (in Metric Tons), 2018-2023

Figure 4: India: Bio Agriculture Market: Breakup by Segment (in %), 2023

Figure 5: India: Bio Agriculture Market: Breakup by Region (in %), 2023

Figure 6: India: Bio Agriculture Market Forecast: Sales Value (in Million INR), 2024-2032

Figure 7: India: Bio Agriculture Market Forecast: Sales Volume (in Metric Tons), 2024-2032

Figure 8: Bio-fertilizer Market: Price Structure

Figure 9: India: Bio Agriculture Industry: SWOT Analysis

Figure 10: India: Bio Agriculture Industry: Value Chain Analysis

Figure 11: India: Bio Agriculture Industry: Porter's Five Forces Analysis

Figure 12: India: Bio Agriculture Market (Transgenic Crops): Sales Value (in Million INR), 2018-2023

Figure 13: India: Bio Agriculture Market Forecast (Transgenic Crops): Sales Value (in Million INR), 2024-2032

Figure 14: India: Bio Agriculture Market (Biofertilizers): Sales Value (in Million INR), 2018-2023

Figure 15: India: Bio Agriculture Market Forecast (Biofertilizers): Sales Value (in Million INR), 2024-2032

Figure 16: India: Bio Agriculture Market (Biopesticides): Sales Value (in Million INR), 2018-2023

Figure 17: India: Bio Agriculture Market Forecast (Biopesticides): Sales Value (in Million INR), 2024-2032

Figure 18: North India: Bio Agriculture Market: Sales Value (in Million INR), 2018-2023

Figure 19: North India: Bio Agriculture Market Forecast: Sales Value (in Million INR), 2024-2032

Figure 20: South India: Bio Agriculture Market: Sales Value (in Million INR), 2018-2023

Figure 21: South India: Bio Agriculture Market Forecast: Sales Value (in Million INR), 2024-2032

Figure 22: East India: Bio Agriculture Market: Sales Value (in Million INR), 2018-2023

Figure 23: East India: Bio Agriculture Market Forecast: Sales Value (in Million INR), 2024-2032

Figure 24: West India: Bio Agriculture Market: Sales Value (in Million INR), 2018-2023



Figure 25: West India: Bio Agriculture Market Forecast: Sales Value (in Million INR),  
2024-2032

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