

India Biopesticides Market Size and Share Outlook - Forecast Trends and Growth Analysis Report (2025-2034)

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Report description:

The India biopesticides market is witnessing remarkable growth, driven by a shift toward sustainable and eco-friendly agricultural practices. As of 2024, the market size was estimated at USD 85.18 Million and is projected to grow at a CAGR of around 9.60% through 2034. This growth is expected to propel the market to attain USD 213.03 Million due to the increasing awareness of food safety, environmental protection, and the harmful effects of chemical pesticides.

Biopesticides presently account for about 10-12% of the overall pesticide use in India, indicating an increasing trend towards environmentally friendly crop protection. This percentage is likely to increase significantly by 2030 as farmers increasingly seek out sustainable options. The demand is especially high in the production of fruits and vegetables, where residue-free output is essential for both domestic markets and export. Biofungicides and bioinsecticides are picking up momentum based on their performance, low environmental footprint, and compatibility with integrated pest management (IPM) systems. The trend is in line with larger consumer awareness and policy support for greener farm inputs.

India Biopesticides Market Report Summary

Description

Value

Base Year

2024

Historical Period

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2018-2024

Forecast Period

2025-2034

Market Size 2024

Market Size 2034

CAGR 2018-2024

Percentage

XX%

CAGR 2025-2034

Percentage

9.6%

CAGR 2025-2034 - Market by Region

South India

10.9%

CAGR 2025-2034 - Market by Region

West India

9.9%

CAGR 2025-2034 - Market by Form

Bioinsecticides

10.4%

CAGR 2025-2034 - Market by Crop Type

Fruits and Vegetables

10.7%

2024 Market Share by Region

East India

17.9%

India Biopesticides Market Drivers

Government Initiatives and Policies

The Indian Government is trying to boost organic farming with beneficial policies like Paramparagat Krishi Vikas Yojana (PKVY) and National Mission for Sustainable Agriculture (NMSA) which subsidize and train farmers towards better productivity. This is expected to increase the supply demand gap in the market and boost the adoption rate of biopesticides, thereby augmenting the demand in the India biopesticides market.

Rising Concerns about Chemical Pesticide Residues

Consumers and farmers are shifting towards biopesticides after becoming concerned about harmful effects of synthetic ones which raises the environmental and health issues. Consumers are becoming more conscious of the food they consume, especially in urban centers, demanding residue-free produce. This awareness is influencing farmers to shift toward biological alternatives, particularly in high-value crops like fruits and vegetables. An example of this is Sikkim which is the first organic state in India. The farmers are able to exclusively use biopesticides to produce residue free crops which have high demand domestically, and internationally. This shift has boosted the state's agricultural exports and set a model for sustainable farming.

Trends in the India Biopesticides Market

Surge in Organic Farming

India is one of the leading nations adopting organic farming, with more than 4.7 million hectares being under organic cultivation. This transition increases the demand for natural crop protection products such as biopesticides. Region-specific biopesticide solutions for crops such as ginger and turmeric are being developed by startups. Organic Indian produce is also finding favor in export centers such as the EU and UAE, where residue-free certification is a key factor, further fueling the growth of the India biopesticides market.

Government Support and Subsidies

Higher public investment in biopesticide R&D and easier registration practices for bio-derived products are already pushing local production up. States like Sikkim, Uttarakhand, and Andhra Pradesh are particularly aggressive in terms of this. Initiatives like PKVY and MOVCDNER offer subsidy support and are promoting organic clusters. Sikkim, Uttarakhand, and Andhra Pradesh are all setting the lead by having steadfast policies, facilitating local production as well as broad adoption of biopesticides.

Technological Advancements

Microbial and plant formulation advances are leading to more effective and long-lasting types of biopesticides. They include strain-specific bacteria and fungi and nano-biopesticide delivery systems and fermentation processes. For example, *Bacillus thuringiensis* (Bt)-based nanoformulations are under development to enhance target pest specificity, increase field stability, and minimize environmental degradation, with longer lasting crop protection and less ecological footprint.

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India Biopesticides Market Share

Bioinsecticides to Dominate the Market Owing to Defence Against Borers and Caterpillars

Bioinsecticides dominate the market due to strong demand in crops that are susceptible to infestation by pests like cotton, rice, and vegetables, thus expected to propel with a 10.4% CAGR through 2030. According to India biopesticides market analysis, most demanding bioinsecticides are Beauveria bassiana and Bacillus thuringiensis, which are effective against borers, caterpillars, and sucking pests. Compatibility with IPM and safety for beneficial insects are reasons why they are the choice of Indian farmers.

Fastest Growing Segment: Biofungicides

Biofungicides are rapidly gaining ground, particularly among fruit and vegetable growers. Diseases caused by fungi such as downy mildew, powdery mildew, and root rot are universal pests in these crops. Formulations of Trichoderma and Pseudomonas fluorescens are being used as preventive and curative agents due to their broad-spectrum nature and low environmental footprint.

Biopesticides to Gain Significance for Usage in Fruits and Vegetables

According to India biopesticides market analysis, fruits and vegetables are the most prominent application segment because of their susceptibility to pest and disease infestation and consumer preference for residue-free produce. Export standards and domestic quality requirements compel farmers to use safer alternatives such as biopesticides. The segment also experiences better margins, and hence the price of biopesticides becomes acceptable.

Fastest Growing Crop Segment: Cereals and Grains

Although conventionally dependent on chemical pesticides, grains and cereals, especially rice and wheat, are increasingly adopting biopesticides at a rapid rate. This is driven by government procurement incentives for organic and low-residue grains at a large scale, and pilot schemes encouraging sustainable cultivation in states such as Punjab, Haryana, and Chhattisgarh.

India Biopesticides Market Regional Insights

CAGR 2025-2034 - Market by

Region

South India

10.9%

West India

9.9%

East India

XX%

North India

XX%

South India Biopesticides Market to Expand with a Significant CAGR

South India biopesticides market dominates the biopesticides market, due to robust state-level organic cultivation policies, intensive horticultural production, and farmer awareness, garnering a 10.9% CAGR through 2030. Andhra Pradesh's natural farming movement and Tamil Nadu's facilitation of organic clusters have provided a healthy background for the adoption of biopesticides, particularly in fruits, vegetables, and spices.

Fastest Growing Region: North India

North India biopesticides market is experiencing the highest growth in the use of biopesticides, especially in Punjab, Haryana, and Uttar Pradesh. The transition away from conventional chemical-based farming towards more sustainable modes of cultivation, driven by eroding soil health and water pollution issues, is fueling the uptake of biological alternatives in food grain belts.

Competitive Landscape and Strategies

Major India biopesticides market players are targeting production capacity expansion, product formulation enhancement, and farmer education. Most India biopesticides firms are spending on microbial development to create multi-strain products with wider spectra of pests and diseases. Agricultural university collaborations and field trials are typical steps to confirm effectiveness and establish credibility in farming circles.

Digital outreach and rural connect initiatives are also critical. India biopesticides companies are establishing farmer helplines, mobile applications, and demo farms to inform users of the advantages and usage of biopesticides. Certain companies in the India biopesticides industry are packaging biopesticides with biofertilizers and micronutrients as part of integrated input packages, developing value-added offerings for dealers and end-users alike.

Biotech International Ltd.

Biotech International Ltd., formed in 1993 and India-headquartered, highlights state-of-the-art microbial R&D and public-private initiatives. It aims for global reach, shipping biopesticides to more than 25 countries in regulatory compliance.

T Stanes & Company Ltd.

T Stanes & Company Ltd., established in 1861 and having an Indian base, uses its rural distribution capability. It establishes trust by having long-term dealer relationships and provides microbial solutions appropriate for smallholder farming systems.

Agri Life

Agri Life, founded in 1993 and based in India, pioneers in plant-based products and makes significant investments in farmer training. It practices sustainable sourcing and environmentally friendly production as major market drivers.

International Panaacea Ltd.

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International Panaacea Ltd., established in 1994 in India, integrates its products into government-supported organic projects. It procures large-scale orders through central tenders, facilitating effective, subsidized delivery of biopesticides to various states.

BASF India

BASF India, which is the Indian subsidiary of German-originated BASF established in 1865, combines chemical crop protection with biologicals. It focuses on precision application technologies, high safety standards, and scalable integrated pest management solutions.

Other key players in the report includes Andermatt BioVet AG, Central Biotech Private Limited, Coromandel International Limited, Growtech Agri Science and Research Pvt. Ltd., Gujarat State Fertilizers & Chemicals Limited, IPL Biologicals Limited, Jaipur Bio Fertilizers, Samriddhi Crops India Pvt. Ltd., T. Stanes and Company Limited, Volkschem Crop Science Pvt. Ltd., among others.

Recent Developments

November 2024

The Indian Institute of Oilseeds Research (IIOR) in Telangana has developed a novel seed treatment technology that safeguards microbial agents and essential soil nutrients. This innovation enhances seedling growth and promotes sustainable agriculture practices.

August 2023

FMC India launched ?ENTAZIA?, a *Bacillus subtilis*-based biofungicide targeting bacterial leaf blight in rice, enhancing plant resilience and supporting sustainable agriculture practices in India.

March 2023

Coromandel International launched ?ECO Neem Plus?, a neem-based biofungicide to combat fungal diseases in crops, promoting sustainable farming with eco-friendly pest control solutions for Indian farmers.

February 2023

Sustainable Technologies introduced ?BioAct?, a plant-extract-based bioinsecticide, offering safe pest control for crops, enhancing sustainable agriculture by reducing reliance on chemical pesticides in India.

Why This Report?

The India Biopesticides Market Report and Forecast 2025-2034 provides a comprehensive analysis, including:

- ? Market size, share, and growth forecasts, with a focus on regional dynamics (North India, South India, East India, West India).
- ? Detailed SWOT and Porter's Five Forces analyses to uncover competitive pressures and opportunities in the biopesticide sector.
- ? Insights into key demand and price indicators, such as the impact of government policies, organic farming growth, and consumer demand for residue-free produce on pricing strategies.
- ? Actionable recommendations, such as adopting advanced microbial technologies, leveraging government incentives, and promoting eco-friendly solutions to attract sustainability-conscious farmers and consumers.

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This report empowers stakeholders to navigate the evolving biopesticide market, capitalize on emerging trends, and address challenges with data-driven strategies. Stay ahead with Expert Market Research's latest insights into the India biopesticides market.

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