

## **India Crop Protection Chemicals Market Outlook - Forecast Trends, Market Size, Share and Growth Analysis Report (2025-2034)**

Market Report | 2025-06-28 | 140 pages | EMR Inc.

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### **Report description:**

The India crop protection chemicals market is witnessing remarkable growth, driven by the immediate need to boost agricultural yields and manage pest and disease challenges in the face of changing climatic conditions. As of 2024, the market size was estimated at USD 1.16 Billion and is projected to grow at a CAGR of around 8.80% through 2034. With agriculture contributing significantly to India's economy, safeguarding crops from losses has become a national priority, thus propelling the market to attain USD 2.70 Billion by 2034.

### India Crop Protection Chemicals Market Overview

The crop protection chemicals industry in India is witnessing a revolutionary change, fueled by technological innovation and eco-friendly approaches. Technologies like AI-driven drones allow for early disease detection and precision pesticide spraying, increasing efficiency and minimizing environmental footprints, thus pushing the growth of the India crop protection chemicals market. Smart farming technologies, such as mobile applications and field mapping, empower farmers with real-time data to make informed decisions. Furthermore, the biopesticide growth and green-based formulations are aligned with the increase in demand for sustainable agriculture, thus making India an important player in the global crop protection market.

### India Crop Protection Chemicals Market Report Summary

Description

Value

Base Year

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USD Billion

2024

Historical Period

USD Billion

2018-2024

Forecast Period

USD Billion

2025-2034

Market Size 2024

USD Billion

1.16

Market Size 2034

USD Billion

2.70

CAGR 2018-2024

Percentage

XX%

CAGR 2025-2034

Percentage

8.8%

CAGR 2025-2034 - Market by Region

South India

10.0%

CAGR 2025-2034 - Market by Region

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East India

9.4%

CAGR 2025-2034 - Market by Source

Natural

9.7%

CAGR 2025-2034 - Market by Form

Liquid

9.3%

2024 Market Share by Region

West India

28.2%

India Crop Protection Chemicals Market Drivers

Pest resistance, climate change, and precision farming boost demand in India

A key growth driver of the India crop protection chemicals market is the growing pest resistance, especially on account of excess usage of conventional pesticides. Pest resistance has made a number of conventional formulations lose efficacy, pushing the demand higher for new and stronger chemical offerings. The expansion of climate-linked infestations, such as unseasonal rainfall and temperature hikes, has boosted the frequency of new and resilient pest forms across crop belts as well, thus boosting the India crop protection chemicals market expansion.

Adoption of precision farming is another major influence for the industry. As farmers in India increasingly turn to data-based agriculture, the application of specific pest control measures has risen. Government programs, better rural connectivity, and digital farming tools for monitoring soil and pests have aided farmers in using more efficient and effective pesticides. In addition to this, increasing crop loss awareness and food safety concerns are inducing more timely and controlled application of protection chemicals.

Trends in the India Crop Protection Chemicals Market

Eco-Friendly Innovations and Export-Driven Shifts Transform India's Crop Protection Chemicals Market

One of the primary trends in the market is the transition toward export-based agriculture. With India increasing its presence in global food exports, the demand for globally accepted residue-free chemicals is increasing. This is prompting farmers to promote integrated pest management (IPM) strategies that combine biological, cultural, and chemical methods to avoid overuse and improve crop quality, thus shaping new trends in the India crop protection chemicals market.

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Biotech-enhanced products and bio-derived pesticides are taking the center stage in this transformation. Firms such as Bayer are going for biologicals that are both efficient and sustainable. Corteva is marketing natural-origin solutions alongside digital farming solutions. BASF and ADAMA are developing precision-delivery systems and long-acting formats, which decrease dosage but ensure efficiency. These technologies are not just eco-friendly but also compatible with global trade standards and regulations.

#### India Crop Protection Chemicals Market Share

##### By Source, Natural Chemicals to Dominate the Market

Natural chemicals are becoming more prominent in India's crop protection industry as demand for sustainable and residue-free farming grows and thus garnering a 9.7% CAGR during the forecast period. Farmers are turning to biopesticides from neem, bacteria, and fungi as exports rise and global regulations become more stringent. They are both environment and human-health-friendly. For instance, neem-based products are popular due to their insecticidal action, fitting with integrated pest management and enhancing acceptability among environmentally conscious consumers and foreign buyers.

##### By Form, Liquid Chemicals Demand to Augment Owing to Ease of Application

Liquid formulations remain the most popular in India's crop protection industry due to their convenience of application, rapid uptake by plants, and compatibility with a wide range of spraying equipment. As per India crop protection chemicals market analysis, they are particularly favored for high-value crops where precision is needed, thus garnering a 9.3% during the forecast period. Solid formulations such as granules and powders are, however, fast gaining ground, especially in dryland and rainfed areas. These have longer shelf life, are easy to store, and are more effective in water-scarce or irrigation-limited areas.

##### By Product Type, Herbicides To Augment Due to Large Scale Grain Cultivation Usage

Product-wise, herbicides dominate the India crop protection chemicals market, and are used extensively in cereal and grain farming to fight intense weed infestation that obstructs yields. Their effectiveness and labor-saving properties make them a favorite among small and large farms. On the other hand, biopesticides are the quickest-growing segment due to growing demand for environment-friendly, residue-free products, particularly in high-end fruit and vegetable production for export markets.

##### By Crop Type, Grains Dominate, Fruits and Vegetables Lead Growth in Demand

Among crops, grains and cereals lead the demand for crop protection chemicals because of their widespread cultivation in the country. According to India crop protection chemicals industry analysis, cotton and sugarcane are commercial crops that also use large quantities of herbicides and insecticides to ensure high yields. The most rapidly expanding crop type category is fruits and vegetables, which are being grown more and more for domestic consumption as well as exports. These high-value crops are susceptible to pests and diseases and need low-toxicity, precise interventions.

##### By Application, Foliar Sprays Dominate, Seed Treatment and Soil Application Gain Traction

By application, foliar spray remains the most widely used method, preferred for its quick action and even distribution. Seed treatment is the fastest-growing application segment, particularly in row crops, because it provides early protection with minimized chemical use. Soil treatment is gaining acceptance increasingly in regions where intensive multi-cropping systems are followed.

#### India Crop Protection Chemicals Market Regional Insights

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## CAGR 2025-2034 - Market by

Region

South India

10.0%

East India

9.4%

West India

XX%

North India

XX%

### West India Leads, South India Emerges as Fast-Growing Hub for Crop Protection

West India is presently dominating India's crop protection chemicals market share by taking up almost 28.2% share in 2024. This is due to extensive cultivation of vegetables, sugarcane, and cotton in Maharashtra and Gujarat. Both the states possess robust agricultural supply chains and high farmer consciousness, which makes crop protection solutions widely used, thus boosting the India crop protection chemicals market revenues.

The fastest-growing region is South India, specifically Andhra Pradesh, Telangana, and Tamil Nadu. The region is anticipated to garner a robust CAGR of 10.0% during the forecast period. The region is experiencing a rising demand for specialized pesticides and biopesticides, driven by high-value horticultural crops like mangoes, bananas, and tomatoes. Export promotion and government-supported horticulture missions, like the "National Horticulture Mission," are driving growth and widening market penetration.

### Competitive Landscape

Major India crop protection chemicals market players are pursuing dual strategies of localization and innovation to strengthen their regional presence. For example, numerous companies are consolidating their manufacturing hubs in India to cater to both domestic and overseas markets. Partnerships with local distributors, farmer training, and digital advisory platforms are also being employed to create brand confidence and market reach.

On the innovation front, major India crop protection chemicals companies are putting a lot of money into research and development of green formulations. Online platforms providing real-time pest diagnosis and precision application suggestions are assisting these players in building long-term customer relationships while aligning with India's sustainability agenda.

ADAMA Agricultural Solutions Ltd.

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ADAMA Agricultural Solutions Ltd., founded in 1945 and based in Israel, is increasing its foothold in India with cost-effective, broad-spectrum products suited to local crops. It deals in post-patent molecules and farmer education programs.

#### BASF SE

BASF SE, founded in 1865 and based in Germany, is tapping its worldwide R&D strength to create sustainable crop protection solutions. It deals with innovation in fungicides and collaborates with Indian agritech start-ups for field trials.

#### Bayer AG

Bayer AG, founded in 1863 and based in Germany, is selling integrated crop solutions with a strong emphasis on biologicals and digital farm services. Its collaboration with Indian research centers is to localize high-impact molecules.

#### Corteva Agriscience

Corteva Agriscience, founded in 2019 and headquartered in the United States, specializes in natural-origin pesticide and seed treatment solutions. Its approach consists of farmer education programs and creating low-residue products in compliance with export market norms.

Other key players in the report include IPL Biologicals Limited, Jaipur Bio Fertilizers, FMC Corporation, T. Stanes and Company Limited, Volkschem Crop Science Pvt. Ltd., among others.

#### Recent Developments

##### January 2025

Insecticides (India) Limited has introduced Centran, a twin-action stem borer insecticide for paddy crops. Centran has been developed by the R&D department of IIL, incorporating both pest control and crop feeding that encourages good root growth and tiller growth. The idea behind this is to increase the productivity and profitability of Indian farmers as well as the practice of sustainable agriculture.

##### October 2024

Dhanuka Agritech introduced an integrated crop protection range for apple growers in India, providing customized solutions to fight pests and diseases, enhance the quality of yield, and enable sustainable horticulture in major apple-producing areas. The move is a testament to Dhanuka's focus on innovation and farmer-friendly solutions, increasing productivity and profitability for apple growers in India.

##### September 2024

FMC Corporation has launched three new crop protection products in India: Velzo? fungicide for grapes, tomatoes, and potatoes; Vayobel? herbicide for transplanted rice; and Ambriva? herbicide for resistant Phalaris minor in wheat. These products are designed to increase productivity and sustainability for Indian farmers.

##### April 2022

BASF launched Exponus? insecticide in India, with the new active ingredient Broflanilide?. This new solution provides quick and

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multi-purpose control of resistant pests such as caterpillars and thrips, with long-lasting protection for oilseeds, pulses, and vegetables.

## Market Outlook: 2025-2034

The India crop protection chemicals industry is poised for strong growth, with a forecast to exceed USD 2.70 Billion by 2034. Rising food demand, climate volatility, and export markets will keep driving innovation. With the increasing trend toward sustainable approaches and government initiatives for integrated pest management, the future of crop protection in India lies in resilience and responsibility.

## Why This Report?

The India Crop Protection Chemicals Market Report and Forecast 2025-2034 delivers a comprehensive and strategic analysis, offering vital insights into:

- ? Market size, share, and growth forecasts, with deep dives into segmentation by source, form, product type, crop type, application, and regional dynamics across North, South, East, and West India?highlighting demand centers, agri-export hubs, and emerging consumption zones.
- ? Robust SWOT and Porter's Five Forces analyses to evaluate the competitive landscape, supplier and distributor influence, entry barriers, pricing pressures, and product innovation cycles within India's crop protection chemicals ecosystem.
- ? In-depth examination of demand and price indicators, including the impact of pest outbreaks, seasonal variability, residue regulations, and farm input subsidies on cost structures, adoption patterns, and investment potential.
- ? Actionable recommendations for stakeholders, including strategies to adopt sustainable alternatives like biopesticides, leverage digital and precision farming tools, align with PMFBY and organic farming initiatives, and foster collaborations across agrochemical, biotech, and agritech verticals.

This report empowers policymakers, agrochemical manufacturers, agribusiness investors, and technology innovators with data-backed foresight to navigate India's dynamic crop protection sector, seize emerging opportunities, and build resilience in a climate- and trade-sensitive market. Stay informed and ahead with Expert Market Research's trusted intelligence.

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