India Pesticide Residue Testing Market, By Type (Herbicides, Insecticides, Fungicides, and Pesticides), By Technology (Single Residue Method, Multiple Residue Method, LC-MS/GC-MS, High Performance Liquid Chromatography (HPLC) Gas Chromatography, and Others), By Class (Organochlorines, Organophosphates & Carbamates, and Others), By Food Tested (Meat & Poultry, Dairy Products, Processed Food, Fruits & Vegetables, Cereals, Grains & Pulses, and Others), By Region, Competition, Forecast and Opportunities, 2029

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Report description:

India pesticide residue testing market is anticipated to witness impressive growth during the forecasted period due to increasing aware about health & food safety.

The India pesticide residue testing market refers to the market for testing the presence of pesticide residues in various food and agricultural products in India. Pesticides are chemicals used to control pests in agriculture, and their residues can be harmful to human health if they are present in the food we consume. The market includes various types of testing methods, such as chromatography, spectrometry, and immunoassay.

The market is driven by increasing awareness about food safety and the harmful effects of pesticide residues on human health. The Indian government has also implemented strict regulations for pesticide residue testing to ensure the safety of the food consumed by the population. The market is expected to grow in the coming years, driven by increasing demand for safe and healthy food products. The market is also expected to be driven by increasing government regulations for pesticide residue testing and increasing awareness among consumers about the harmful effects of pesticide residues. This anticipated in the growth

of India pesticides residue testing market.
The market is expected to grow in the coming years, driven by increasing demand for safe and healthy food products, increasing government regulations for pesticide residue testing, and increasing awareness among consumers about the harmful effects of pesticide residues.

Increasing Awareness about Food Safety Results in the growth of India Pesticide Residue Market
Increasing awareness about food safety is major factor for the growth of the market of India Pesticide residue testing market. With growing concerns among consumers about the safety of the food they consume, there has been an increased demand for food safety standards and regulations.
The use of pesticides in agriculture is widespread in India, and there have been several instances of high pesticide residues found in food products, leading to health hazards. This has resulted in an urgent need to implement testing and monitoring measures to ensure the safety of food products. It Is found that 75.44% of farmers were aware about the hazardous effect of using pesticides while 22.56 were not aware.
The Food Safety and Standards Authority of India (FSSAI) has implemented regulations and guidelines for the use of pesticides in food production and has set maximum residue limits (MRLs) for different types of pesticides. The FSSAI also mandates regular testing of food products to ensure compliance with these regulations.
The awareness of food safety has also led to the promotion of organic farming practices, which are free of synthetic pesticides and chemicals. This has further increased the need for pesticide residue testing to ensure compliance with organic standards.
As further concluded that, the increasing awareness about food safety has led to a higher demand for pesticide residue testing in India. The need to ensure the safety of food products has become a critical factor in the purchasing decisions of consumers, leading to the growth of the pesticide residue testing market in India.
Increasing Demand for Organic Food Leads the market of India Pesticides Residue Market
The increasing demand for organic food has had a positive impact on the Indian pesticide residue testing market. Organic food is produced using only natural methods and without the use of synthetic pesticides, fertilizers, or genetically modified organisms (GMOs).
As more consumers in India become aware of the health and environmental benefits of organic food, there has been a growing demand for such products. However, to ensure that food products are genuinely organic, it is essential to conduct pesticide residue testing to ensure that they are free of synthetic pesticides.
As instructed by Food Safety and Standard Authority of India (FSSAI) the need to Mention production, labelling, and certification of organic food product. In this regulation mandate the regular tests of organic products to ensure that they are free from synthetic pesticides and harmful substances.
The demand for organic food products has increased the demand for pesticide residue testing services as organic food producers seek to obtain certification and meet the required standards. As per a survey conducted on a certain number of people out of them, 30% of people frequently buy organic products. This has led to an expansion of the pesticide residue testing market, with more laboratories and testing facilities being established to meet the growing demand.
Moreover, the growing demand for organic food products has also led to an increase in organic farming practices. Organic farming uses only natural methods and relies on practices such as crop rotation, composting, and natural pest control to produce food. This reduces the use of synthetic pesticides and chemicals, thereby minimizing the risk of pesticide residues in food products.
Favorable Government Regulations is Driving the Pesticide Residue Testing Market Growth
The Indian government has implemented various regulations and guidelines to promote the pesticide residue testing market. These regulations are aimed at ensuring the safety of food products, protecting public health, and improving the quality of agricultural produce in India.
The Food Safety and Standards Authority of India (FSSAI) is the main regulatory body responsible for ensuring food safety in India. It has set maximum residue limits (MRLs) for different types of pesticides and mandates regular testing of food products to ensure compliance with these regulations. As per a survey done by Government in 2020, 1,81,656 samples of various food like vegetables, fruits, rice, wheat, pulse, spice, red chili, curry leaves, milk, butter, fish, meat, egg, tea, honey, and environmental samples like soil and water were collected from various parts of the country and analyzed during 2008- 2018 for the presence of

pesticide residues, out of which 3,844 (2.1%) samples were found above MRL as prescribed under Food Safety Standard Authority of India (FSSAI), Ministry of Health and Family Welfare.
The FSSAI also requires food businesses to obtain licenses and certifications to ensure that they meet food safety standards. This includes mandatory testing of food products before they are released into the market. This has led to an increase in demand for pesticide residue testing services as food businesses seek to obtain licenses and thus, meet the required standards.
The government has also provided financial assistance and incentives to promote the establishment of testing facilities and laboratories in India. This has led to an increase in the number of testing facilities, which has, in turn, led to increased competition and improved testing services.
Market Segmentation
The India pesticides residue testing market can be segmented by type, technology, class, food tested, and region. Based on type, the market can be segmented into herbicides, insecticides, fungicides, and pesticides. Based on technology, the market can be segmented into single residue method, multiple residue method, LC-MS/GC-MS, high performance liquid chromatography (HPLC), gas chromatography, and others. Based on class, the market can be grouped into organochlorine, organophosphates, organonitrogens & carbamates, and others. Based on food tested, the market can be grouped into meat & poultry, dairy products, processed food, fruits & vegetables, cereals, grains & pulses, and others. Based on region, the market can be grouped into North India, South India, East India, and West India.
Market Players
SGS India, Eurofin Scientific, Intertek Group, Bureau Veritas, TUV India Pvt. Ltd, Intertek India Pvt. Ltd., ALS Limited, and Agilent Technologies are the major key players in India pesticide residue testing market.
Report Scope:
In this report, the India pesticides residue market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:
-India Pesticides Residue Testing Market, By Type:
oHerbicides
oInsecticides
oFungicides
oPesticides
-India Pesticides Residue testing Market, By Technology:
oSingle Residue Method
oMultiple Residue Method
oLC-MS/GC-MS
oHigh performance liquid chromatography (HPLC)
oGas Chromatography
-India Pesticides Residue Testing Market, By Class:
oOrganochlorine
oOrganophosphates
oOrganonitrogens & Carbamates
-India Pesticides Residue Testing Market, By Food Tested:
oMeat & Poultry
oDairy Products
oProcessed Food
oFruits & Vegetables
oCereals
oGrain & Pulses
-India Pesticides Residue Testing Market, By Region:
oEast India
oWest India

o North India
o South India
Competitive Landscape
Company Profiles: Detailed analysis of the major companies present India pesticides residue testing market.
Available Customizations:
With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:
Company Information
- Detailed analysis and profiling of additional market players (up to five).

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