

# **India Indoor Farming Market, By Farming Technique (Hydroponics, Aeroponics, Aquaponics, Soil-Based, and Hybrid), By Facility Type (Greenhouse, Indoor Vertical Farm, Container Farm, and Others), By Component (Irrigation Component, Lighting, Sensor, Climate Control, and Others), By Crop Type (Fruits & Vegetables, Herbs & Greens, Flowers & Ornamentals, and Others), By Region, Competition, Forecast and Opportunities, 2029**

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## **Abstracts**

India indoor farming market is expected to grow at remarkable rate through 2029 due to many potential factors. Indoor farming also known as vertical farming, is a growing trend in India, especially in urban areas where space for traditional farming is limited. In this, the crops are grown in a controlled environment through different technologies, such as, hydroponics, aeroponics, and aquaponics.

Indoor farming has several advantages over traditional farming. This crop can be grown round- year regardless of weather conditions. It provides higher yield per square feet and reduces the use of pesticides, herbicides, and water.

The market is supposed to grow at a quick pace economically because of several startups and companies being engaged in indoor farming practices for growing crops such as leafy greens, herbs, and strawberries. By this, they reduce distance transportation and carbon footprint associated with food production.

Limited Land Availability Supports India Indoor Farming Market

One of the main factors promoting indoor farming in India is the lack of available land. Farmers in India are under severe pressure to produce more food supplies on limited land because of the fast-expanding population and a shortage of agricultural land.

Without requiring a lot of arable land, farmers can produce crops indoors in a controlled atmosphere. More crops may be grown in a smaller area, which is beneficial in urban settings where land resources are scarce.

Additionally, growing trays stacked on top of one another can be used for vertical indoor farming, which boosts the productivity of small plots of land. Systems for vertical farming are especially well adapted to highly populated urban areas with limited space.

Many individuals in India are also using traditional methods of indoor gardening such as growing herbs and small vegetables in pots on a windowsills or balcony. This allows them to produce their own fresh product using limited space and resources.

By using indoor farming, farmers can produce fresh, high-quality grains & crops in a sustainable and environmentally friendly way without relying on land area.

### Climate Challenges Might Increase the Growth of India Indoor Farming Market

In India, the extreme weather conditions, water scarcity, and changing weather patterns have led a grown interest in indoor farming. which also mitigates risk associated with traditional farming.

Growing crops in a controlled environment can shield them from extreme weather events like floods, droughts, and heat waves, which is one of the advantages of indoor farming. This is especially crucial in areas of India that are vulnerable to these kinds of weather phenomena since they can seriously harm crops and lower total harvests.

Indoor farming can also help reduce the impact of water scarcity during crop yield. Farmers can produce crops with less water by using hydroponic or aeroponic farming systems, which requires considerably less water than traditional farming. This makes it possible to cultivate crops in areas that are prone to droughts.

In addition, farmers can grow crops year-round, regardless of the weather, with indoor farming. This is especially crucial in India's regions with prolonged dry seasons or monsoons, which can make traditional outdoor agriculture difficult.

Overall climate challenges in India play a vital role in promoting indoor farming to reduce the risk related with outdoor traditional farming. By using less water, pesticide, and herbicides, crops can be grown round the year without any climate interference.

### Demand for Locally Grown Produce Boosts the Market of India Indoor Farming

The rising interest for privately developed produce in India has been a key element driving the development of indoor cultivating in the country. Farmers are turning to indoor farming as a means of meeting this demand because a growing number of consumers are looking for locally grown, fresh, and high-quality produce.

Indoor farming allows farmers to grow crops near urban areas, reduce transportation costs and ensure that produce is fresh and high quality. This is especially important in India, where produce that is picked before it is ripe can be of lower quality because of the long distances between rural and urban areas.

Indoor farming likewise permits farmer to deliver a more extensive assortment of harvests, including fascinating and high-esteem crops that may not be reasonable for open air development in specific districts of India. Customers will have access to a wider variety of fresh, locally grown produce because of this, which may contribute to the diversification of local food systems.

Overall, the demand for locally grown produce in India has been a key driver behind the growth of indoor farming in the country. By producing fresh high-quality crops near urban centers, farmers can meet this demand while also improving the flexibility of local food system.

### Challenges

One of the most significant challenges faced by indoor farming in India is the high cost of capital. The expense of setting up an indoor farming activity can be restrictively high, particularly for small scale farmers who might lack excess of capital. The need for specialized infrastructure and equipment, such as grow lights, hydroponic or aeroponic systems, air conditioning or ventilation systems, and irrigation systems, is primarily the reason for the high prices.

For small scale and medium scale farmer it is the main barrier for them not to show their interest in the Indoor farming. Some of them were trying to overcome this by doing

Crowdfunding, public-private partnership, and government help to arrange the fund and establish indoor farming.

Overall, the high capital cost of indoor farming in India are significant challenge, but efforts are underway to address this issue and make this technology more accessible to farmers across the country.

Indoor farming requires significant amounts of energy to power lighting, heating, and cooling systems. This can be a major expense, particularly in a country like India where electricity costs are often high, and supply is unreliable in some areas.

Indoor farming is still a relatively new concept in India, and many consumers may not be familiar with the benefits or drawbacks of this practice. Educating consumers about the value of locally grown, fresh produce can be a challenge.

## Market Segmentation

The India indoor farming market can be segmented by farming technique, facility type, component, crop type, and region. Based on farming technique, the India indoor farming market can be segmented into hydroponics, aeroponics, aquaponics, soil-based, and hybrid. Based on facility type, the India indoor farming market can be segmented into greenhouse, indoor vertical farm, container farm, and others. Based on component type, the indoor farming market can be grouped into irrigation component, lighting, sensor, climate control, and others. Based on crop type, the India indoor farming market can be divided into fruits & vegetables, herbs & greens, flowers & ornamentals, and others.

## Market Players

The major players in the India indoor farming market are Infarm pvt. Ltd (Germany), Aero-Farm pvt ltd, (US), FreshToHome pvt. Ltd. (India), Urban Kisaan Pvt. Ltd. (India), and Kheyti pvt. Ltd. (India).

## Report Scope:

In this report, the India indoor market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

### India Indoor Farming Market, By Product Type:

Fruits & Vegetables

Herbs & Microgreens

Flower & Ornamental Plants

India Indoor Farming Market, By End User:

Retail & Supermarket

Food Services

Residential

India Indoor Farming, By Region:

East India

West India

North India

South India

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present India indoor farming 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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