



**Keisha**<sup>®</sup>  
Greens Private Limited  
*We Protect Your Crop*

**We Build**  
**PREMIUM GREENHOUSE STRUCTURES**



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# ABOUT US

- Keisha greens is a Hi-Tech protected farming & various types of greenhouse structure provider company located in Gujarat, INDIA.
- We already have done so many projects all across India, A majority of our operations are in Rajasthan, Madhya Pradesh, Maharashtra, Punjab, Karnataka, Tamlinadu, Uttarakhand, Uttar Pradesh, Delhi and Many More.
- We are also working internationally, We have done projects in African countries, Arabian countries, & Nepal. We are proud to say that we are an international-orientated greenhouse manufacturer from India.
- This wealth of experience has enabled us. to become the Indian market leader in the Development of greenhouses as well as in the cultivation of Decorative Flowers and exotic vegetables. With an Increasing global demand for sustainable growing methods, we always focus on the innovation of greenhouse technology and bringing a cost-effective greenhouse to the world.
- We are engaged in protected farming with fully automation, soil less farming, AI based farming since 2011. We are also doing organic self-integrated greenhouse projects. Our customers grow a variety of crops ranging from exotic vegetables to decorative flowers, fruits and nursery stock for seedlings and we are also into contract farming and buy back arguments to sell our client's produce to domestic & international market.
- Keisha Greens is Committed for the Best Quality Products, On Timely After Sales Services & Agronomy Support.





# WHAT IS GREENHOUSE ?

A greenhouse is a structure that helps plants and protects them from the outside environment. They are usually used to grow plants in controlled climates, but they can also be used for other purposes such as protecting crops from pests, insects and animals.

Greenhouses can come in many different shapes and sizes. Some of the most popular structures are Fan & pad greenhouse, Naturally Ventilated greenhouse & Polycarbonate greenhouse. Greenhouses can be built as small sheds or large structures. They are usually heated & cooled with water, electricity, or a combination of the two.

## BENEFITS

- It can produce high value flowers/ vegetables all round the year
- It Provides the perfect & suitable environment for plants to grow healthy
- It can manage require temperature, humidity, lights and CO2 level inside the structure
- It Expand your production area and produce more crops in less space
- Protects your crops from wind, rain, hail & frost
- Verticle farming is possible in greenhouse to optimize space



## SHAPES OF GREENHOUSE



TUNNEL



DOMES



SAW TOOTH



TAILOR MADE

OF GREENHOUSE



# TYPES OF GREENHOUSE



Fan & Pad Greenhouse

A "Fan & Pad" cooling system is the most popular mechanical cooling method for green-house. With this system work, the greenhouse temperature could cool down as 5 to 15 degrees during summer & winter. It protects your crops from heat and maintains humidity.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	4.0 mtr	4.0 mtr	6.0 mts	NA	NA

Application: Hydroponics, Aquaponic, Agriculture, strawberries, Tissue Culture,Hardening chamber



Polycarbonate Greenhouse

Polycarbonate greenhouse is a premium choice for growers living in all kinds of climates. It can withstand harsh weather,snowfall & sand storm weather. It is long-lasting and can remain in good shape. Polycarbonate greenhouses help diffuse UV lights, which helps plants thrive and even grow faster in very Hot and Cold climates.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	6.0 mtr	3.0 mtr	3.0 mtr	4.0 mts	NA	NA

Application: Highly exotic veg, fruit and experiment center for seeds company





**Naturally Ventilated Greenhouse**

Naturally Ventilation is an Effective way to save energy, shade, temperature and humidity. The middle of each span of the greenhouse can be used for ventilation a large area. At the same time, due to the principle of hot differential pressure, the gas with high temperature in the greenhouse is always at the highest point of the greenhouse, so it's Effectively reduces the temperature and humidity in the greenhouse, especially suitable for flowers and crops with low humidity requirements. It is suitable and used in most of the world.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	4.0 mtr	4.0 mtr	6.5 mts	1.0 mtr	3.0 mtr

Application: All vegetables, flowers, medicinal plants, etc.



**Double Vent Greenhouse**

A double vent greenhouse is an optimal solution for specific climate conditions and crop requirements. The greenhouse polyethylene cover is connected with reusable PVC or aluminum locking profiles. It is designed for standard wind loads and vertical loads. Side walls can be covered with polyethylene, polycarbonate, or with a curtain (manual or automated).

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	4.0 mtr	4.0 mtr	7.0 mts	1.0 mtr	3.0 mtr

Application: Highly exotic veg, fruit and experiment center for seeds company.





**Low Cost Polyhouse**

Poly net houses are mainly used to produce Capsicum, Tomatoes, Cucumber, Coriander and various vegetables with good quality. They are also used to produce Ornamental Plants in Nurseries. The prime use of the film is to maintain an ambient temperature for development of crops. This is the best option for a Naturally Ventilated greenhouse in a cost effective way.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	4.0 mtr	4.0 mtr	5.5 mts	1.0 mtr	3.0 mtr

Application: All vegetables, flowers, medicinal plants, etc.



**Dome Shape Nethouse**

Shade Net house offers cross ventilation as well as very good growing results for a wide range of vegetable crops like tomatoes, capsicum, cucumbers and very good for a variety of flowers and ornamentals. The shade house offers different shade percentage adjusting to different crops and a diversity of situations Shade House also provide protection from, Hailing, Excessive sun exposure & Wide range of insects attack.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	6.0 mtr	4.0 mtr	5.0 mts	NA	NA

Application: All vegetables & Nursery.





**Flat Type Nethouse**

A Flat Net House Structure is a Light-Weight frame with poles and cables that support the net & Air Vents are covered with nets, or all the greenhouse walls are made of netsthat protect crops from insects & Weather damage. This is cheaper in compare to Dome type nethouse.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	6.0 mtr	4.0 mtr	4.0 mtr	4.0mts	NA	NA

Application: All vegetables & Nursery.



**Wire Rope Nethouse**

This type of net house is a low-cost solution and helps to extend the growing season or permits off-season production by way of controlling light, temperature, humidity, carbon-dioxide level and nature of root medium. This is a low cost design.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	6.0 mtr	4.5 mtr	4.5mts	NA	NA

Application: Mainly use for nursery holders & vegetables.





**Nursery Structure**

We design and make all types of structures single layer, double layer and triple layer preparing and gardening plants.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	4.0 mtr	3.0 mtr	5 mts	0.8 mtr	2.0 mtr



**Walk In Tunnel House**

A walk-in tunnel covers the cultivation area and the structures are large enough to walk in and work inside. Walk In Tunnels have a variety of applications, the majority being, growing of vegetables, floriculture, for small growers and hobby houses.

DESCRIPTION	Span	Bay	Guther Height	Top Height	TopVent	Side Vent
PARAMETER	8.0 mtr	4.0 mtr	4.0 mtr	7.0 mts	NA	NA



# WE ARE SINGLE WINDOW SOLUTION





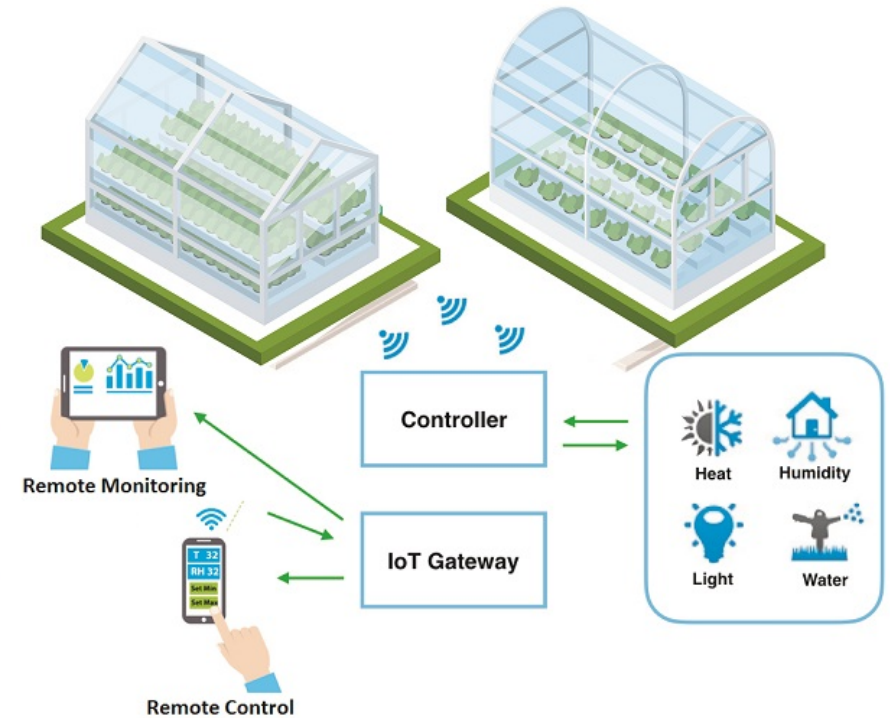


## How Smart Greenhouse Farming Works?

Smart Farming offers real-time and precise insights into several natural process analytics in the Greenhouse industry.

Greenhouse-using IoT nurtures sustainable farming businesses that enhance benefits for greenhouse owners, farmers, private institutions, and government organizations, Agriculture Universities, seeds development companies etc

This Helps better & consistency yield with quality with minimum effort. It also helps maintain plant history.





# Using IOT in Greenhouse can able to:

## Empower analysis of soil and climate

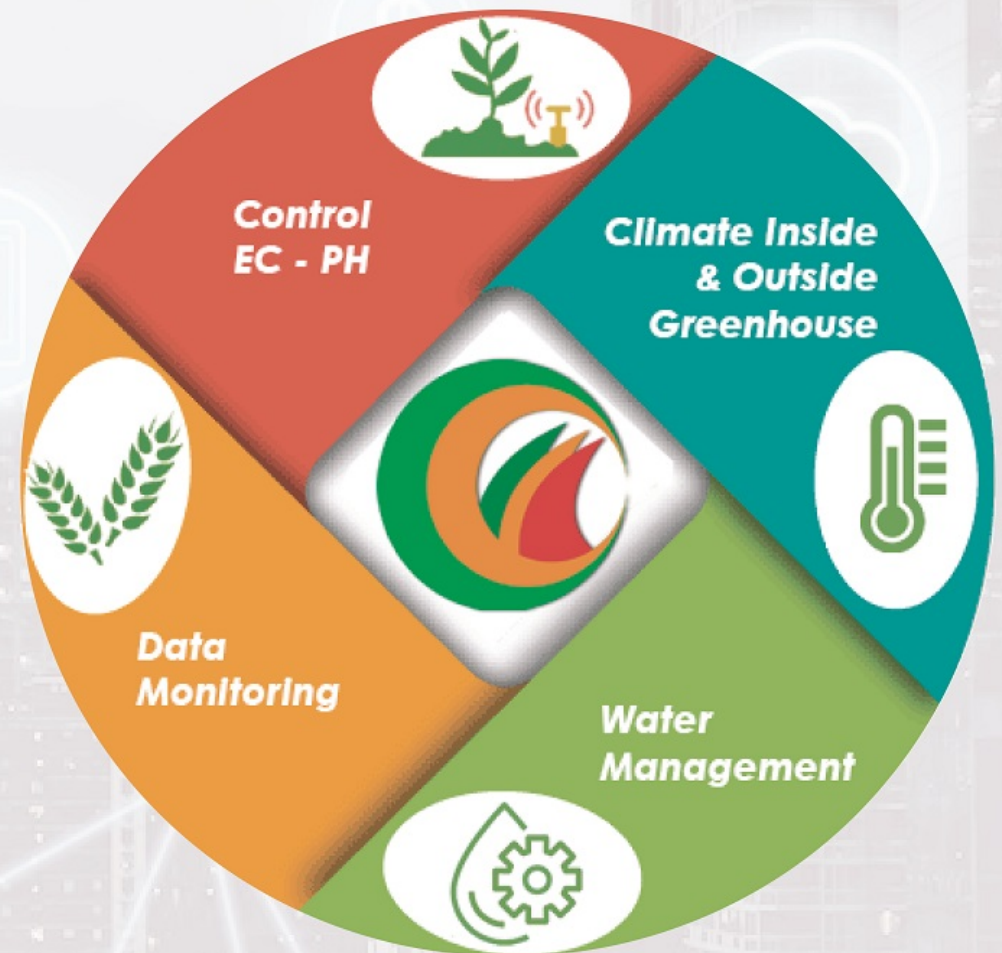
With the help of IoT in the greenhouse, lighting intensity, temperature, humidity, and carbon dioxide levels are measured and studied through electronic and environmental sensors, and data collected are exported to the computer. The stored data is also accessible through the Cloud.

## Effectively improve crop growth

Using a precision agriculture model in a greenhouse, growers can observe months ahead and use collected data to predict suitable crop variations for the season and ideal planting times.

## Manage pest population to elevate farm production

Unwanted pests can wreak havoc on your greenhouse crops, affecting both quantity and quality. By implementing IoT Smart Farming with pest management strategies, you can take control and elevate your farm production to new heights





# Soil less & Cocopeat

Coco Peat is a renewable and sustainable material that is made from coconuts. It has many benefits over traditional soil and can be used to create a coco peat grow bag turnkey project.




The cocopeat grow bag turnkey project is the perfect solution for greenhouses where there is no access to soil or for people who want the benefits of cocopeat but don't have the time or money to put into a full-scale project. The cocopeat grow bag is made of 100% cocopeat and has the ability to store water, air and nutrients for plants.

## Cocopeat Culture Project Types:

-  Trough Beds
-  Grow Slabs
-  Grow Bags



## Benefits

-  It is an eco-friendly material, Easy to install in any type of non-fertile land.
-  As it can be easily wet and re-wet, a grow bag absorbs water readily and has a water holding capacity of 77%
-  Does not require any digging & heavy preparations.

## COMPARISON BETWEEN

	Root zone space	Available water	Irrigation water tension	Nutrition	EC&pH	Irrigation system	Nutrition system
Substrate	Limited to the substrate volume	Limited by the substrate volume and water capacity	15-20 milli-bar	NPK + micro elements	Can be controlled	Dense and precise	Relative & controlled*
Soil	Unlimited	Dependent on soil type	20-50 centi-bar	NPK	Uncontrollable	Standard	Standard



# SELECT THE APPROPRIATE COCOPEAT SOLUTION FOR YOUR GREENHOUSE

**Trough  
Beds**



**Grow  
Slabs**



**Grow  
Bags**





# CLUSTER GREENHOUSE PROJECT

A cluster greenhouse is like a group of linked greenhouses close to each other with a Central automation climate control system. They're set up thisway to use resources efficiently and grow different plants in separate spaces. Cluster greenhouses share Common Facility like Water, Electricity Supervision Etc.

## BENEFITS OF A CLUSTER GREENHOUSE PROJECT

- Using Resources Better:**  
Cluster greenhouses share things like land, water, automation and energy. This saves money and helps the environment.
- Growing Different Plants:**  
Each greenhouse can be made just right for different plants. This makes them healthier and grow better. Various Different crops can be provided at the same time as per demand.
- Learning Together:**  
two or more growers can combine one cluster project, they can share ideas and help each other. This makes everyone better at growing.
- Less Risk:**  
If one plant doesn't grow well, it doesn't affect everything. This makes it safer for farmers.
- Using Space Well:**  
Cluster greenhouses make good use of land, especially in cities where there's not a lot of space.
- Saving Money:**  
When things are shared, it can be cheaper for everyone. This helps farmers make more money by reducing the cost of cultivation.
- Helping the Earth:**  
Sharing things and being careful about how we use resources is good for the planet.
- Using New Tech:**  
When everyone uses the same technology, it can be easier and cheaper. This makes growing plants better.
- Selling More:**  
When there's more produce, it can be sold to more people. This helps farmers sell more things in cluster projects and more production comes which open gates for export with proper cold chain management.



Diversification  
of Plants



Export in  
Global Market



Fully Controlled  
Environment



# How Cluster Project Opens Gate To Global Market

Grow Wide  
Range of Plants



Packing &  
Marketing





# Hydroponic:

Hydroponics is a type of agriculture that does not require soil. It has the potential to grow plants in an efficient and sustainable way.

Hydroponic systems use water as the nutrient for plants, which means that it can be used to grow any plant all year round. In addition, hydroponics uses less water than traditional farming methods because the water is recycled in a closed system.

## Benefits:

- Require less space than traditional farming methods
- Plant can grow with up to 98% less water than traditional growing methods
- lighter load for laborers and can easily be managed with far fewer man-hours
- Production increases 3 to 10 times in the same amount of space
- Plants receive the perfect amount of nutrients, which come in direct contact with roots
- You can control your own micro-climate in hydroponic

## Hydroponic Types:



### Flat Bed

In a Flat Bed Hydroponics system, plants are lined up on horizontal layers. Tube like channel holds the plants in small net pots & the roots are suspended at the bottom of the net pots, so that right in the tube itself, water solution passes through and the roots also get exposed to air for gaining adequate oxygen.



### DWC (Deep Water Culture)

Here, the roots of plants are sunk in water so that they gain an adequate amount of nutrients. And the roots are suspended at the bottom of the net pots, so that right in the tube itself, water solution passes through it and the roots also get exposed to air for gaining adequate oxygen.



### A-Frame

This setup is in the shape of the English alphabet "A". Here, the water flows in a single direction from the top level and then to the next levels below each of them. A-Frame is preferred for its Excellent Aeration and Optimal use of space as well as water.



### Dutch Bucket

Dutch Bucket uses buckets as a growing medium for the hydroponics crops. These buckets are filled with materials like coco peat, clay balls, etc. that hold the roots and provide good aeration. In this system, nutrient solutions are mixed with the water which is then supplied to the roots by drippers.



### Indoor Setup

Indoor hydroponic farming is a process of growing plants or crops in a large quantity in an indoor area. The artificial light such as LED and other nutrients are put into use for making the plants grow. You can produce a wide range of plants such as herbs, tomatoes, lettuce, peppers, vegetables, and fruits.



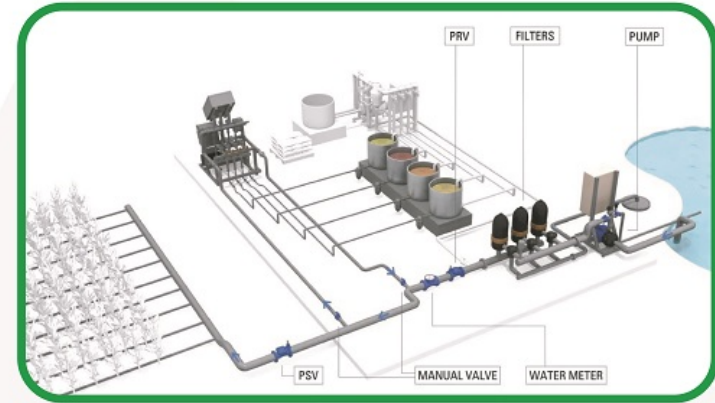


# Automation System:

- This is a climate and irrigation control computer based system for greenhouse growers for flowers and vegetable crops. This program can control the heating and cooling of the water and air in different zones. You can control the temperature and humidity levels during day and night, as well as CO2 systems.
- Growers to get maximum accuracy in fertigation, water feeding & climate control to grow flowers and vegetables.
- This system can program & control more than one polyhouse at the same place with same time. it helps to control temperature, humidity, Co2 level with sensors
- This is Cloud based system to operate & program, from anywhere, anytime. Our greenhouse automation system Services includes levels during day and night, as well as CO2 systems.

# Benefits:

- Creates and maintains an ideal environment as per feeded data & program.
- You can Control your greenhouse climate with computer.
- The water systems also run to ensure that the plants receive an adequate amount of water and prevent flooding in the greenhouse.
- These systems are programmed to fertigation & water with proper EC.PH. Automation.
- Automation can be customized as per specific requirement and budget





Suggested

# Crops

which gives you ROI up to 35% In Greenhouse



CAPSICUM



CUCUMBER



CHERRY TOMATO



BROCCOLI



CARNATION



DUTCH ROSE



ORCHID



GERBERA



ZUCCHINI



LETTUCE



BLUE BERRY



STRAWBERRY



TURMERIC



GYPSOPHILA



MUSK MELON



# OUR MAJOR CLIENTS



# OUR ASSOCIATES





# Our Presences in India & Global



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