



 **JAIN**®  
**Jain Irrigation Systems Ltd.**  
*Small Ideas. Big Revolutions.®*

## Vertical Farming

Land is getting scarce by the day. The vertical farming uses soilless media or hydroponic technique. It uses space through multilayer and artificial light source.

Plant roots are suspended in static or flowing water having nutrient solution. The water is re-circulated through automated system.

### Benefits

- Provides an option to produce food where land cost is very high or less cultivable land is available and population is reare (Urban area)
- Very high productivity per unit area, time and resources.
- Higher yield from very small area by growing vertically
- Recirculation of water and nutrient so less consumption of water & fertilizers.
- Food free from microbial and other contaminants.
- Plants are grown in water so very less quantity of decrease and produce will be very higenic.
- Suitable for vegetable like leafy vegetable (Lettuee, Carrionder, Spinach etc) herbs.
- Ideal for malls, Shopping center, Restraurrent, corporate building.

### Construction

- Ruhust design & construction.
- Plastic Tray
- Automation
- Artiftial Lighting
- Trailer made system



# Controlled Environment Horticulture More than just a greenhouse!

**Planning** - Planning and Design of different systems - structures, Micro Irrigation, Fertigation, Climate Control, Automation and Crop Support as per requirements.

**Structures** - Greenhouses/ Poly houses/ Tunnels/ Shade houses/ Net houses.

**Frame-works** - Hot dipped Galvanized Lipped Channel Structure/ Lipped Channel cum Tubular/ Tubular Structure.

**Coverings** - Polyethylene/ Polycarbonate Sheet (Multi wall/ Single wall)/ Shading -Thermal Shade Net.

**Environment Controls** - Cooling System/ Heating System/ Humidification/ PAR Lighting.

**Crops & Plants** - Floriculture/ Vegetables/ Herbal - Medicinal/ Aromatic/ Exotic/ Seedling Nurseries.

**Growing Mediums** - Soil/ Soilless Substrate/ Hydroponics/ Aeroponics/ Vertical Farming.

**Types of Irrigation** - Drip Irrigation for Soil Less Substrate/ Soil Media – Micro Sprinkler – Overhead/ Inverted Sprinklers – Climate Control System – Mistlers/ Foggers/ Boom Irrigation.

**Automation Controls** - Automatic Controlling of Irrigation/ Temperature/ Humidity/ Ventilation/ CO<sub>2</sub> Monitoring/ Weather station/ Fertilizer & Nutrition Management etc.

**Accessories** - Filtration & Fertigation Equipment/ Pipes & Fittings/ Modular Benches/ Trellis/ Soil Sterilizer/ Drainage System etc.

**Applications** - Horticulture/ Seedlings/ R&D/ Nurseries/ Plant Hardening/ Ripening Chambers/ Pack House.

**IN FACT FOR SUCCESSFUL CONTROLLED ENVIRONMENT HORTICULTURE,  
SOLUTIONS FROM BEGINNING TO COMMISSIONING**

**More than anyone can offer, anywhere in the world!**

Supported by expert customer advice and after sales service from the world's pioneer in Micro Irrigation



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