



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

Aeroponics



Aeroponics

First time this method was invented by NASA to grow plants in space. Later Holland and Israel have taken R&D trials. In India, Jain Irrigation has made the first commercial installation in Punjab. It is running successfully for the past three years.

Aeroponics is the process of growing plants in air or mist environment without the use of soil or any other growing medium. Water is used to transmit nutrients.

The basic principle of Aeroponics is to grow plants in suspended root system in protected environment. Water with required nutrients is supplied through mist sprays. Suitable for tubers crops, root crops and leafy vegetables.

Benefits

- Disease and pest free plants.
- Increased supply of oxygen and CO₂ in rhizosphere.
- High plant growth rate.
- High productivity per unit area, water and nutrients.
- Food free of microbial and other contaminants.
- Helps study of root zone.



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/ CO₂ 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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