



IRRIGATION SOLUTIONS

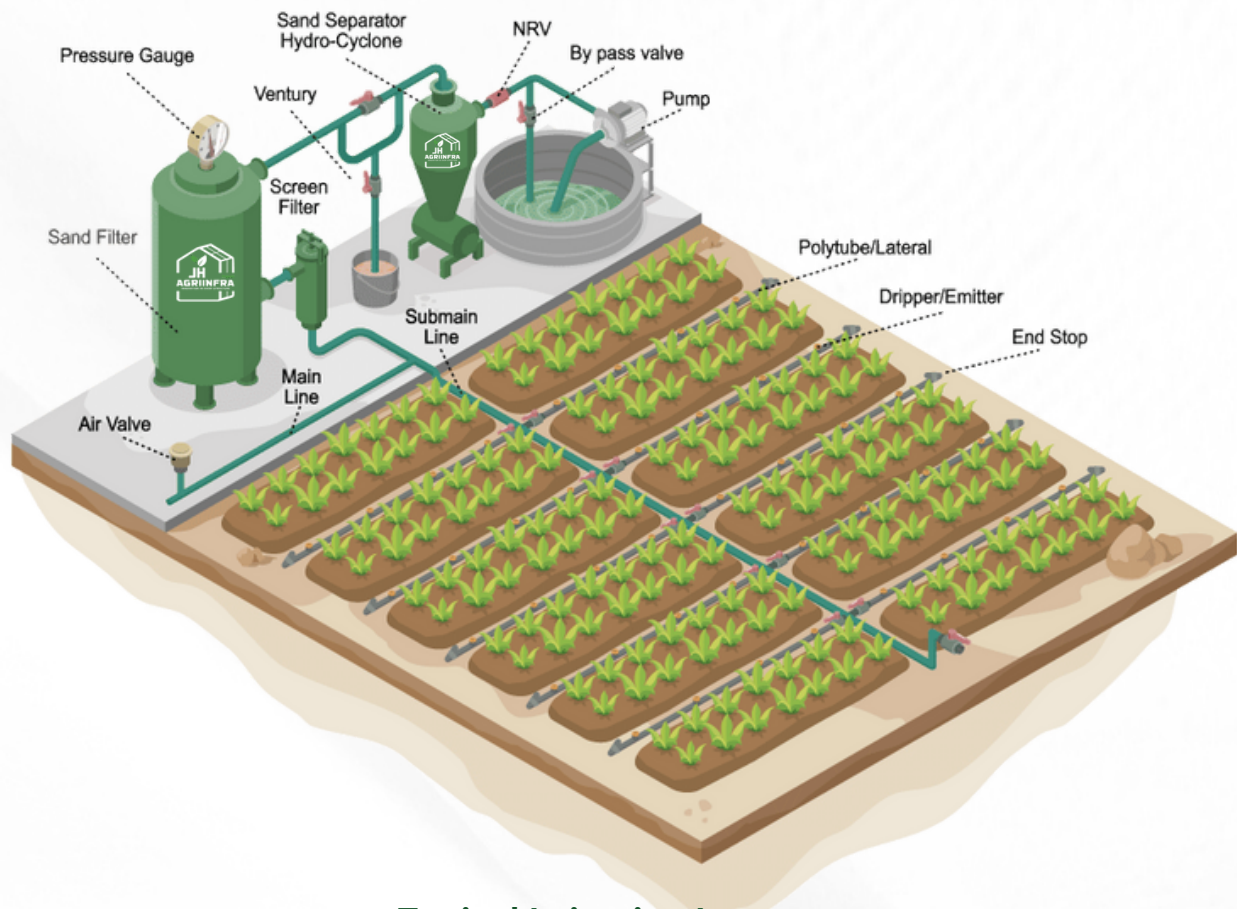
SSJH Protected Farming Proprietary Limited

Consulting, Design, Installation & Turnkey Services for
Greenhouse / Irrigation and Protected Farming Solutions



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Irrigations Solutions

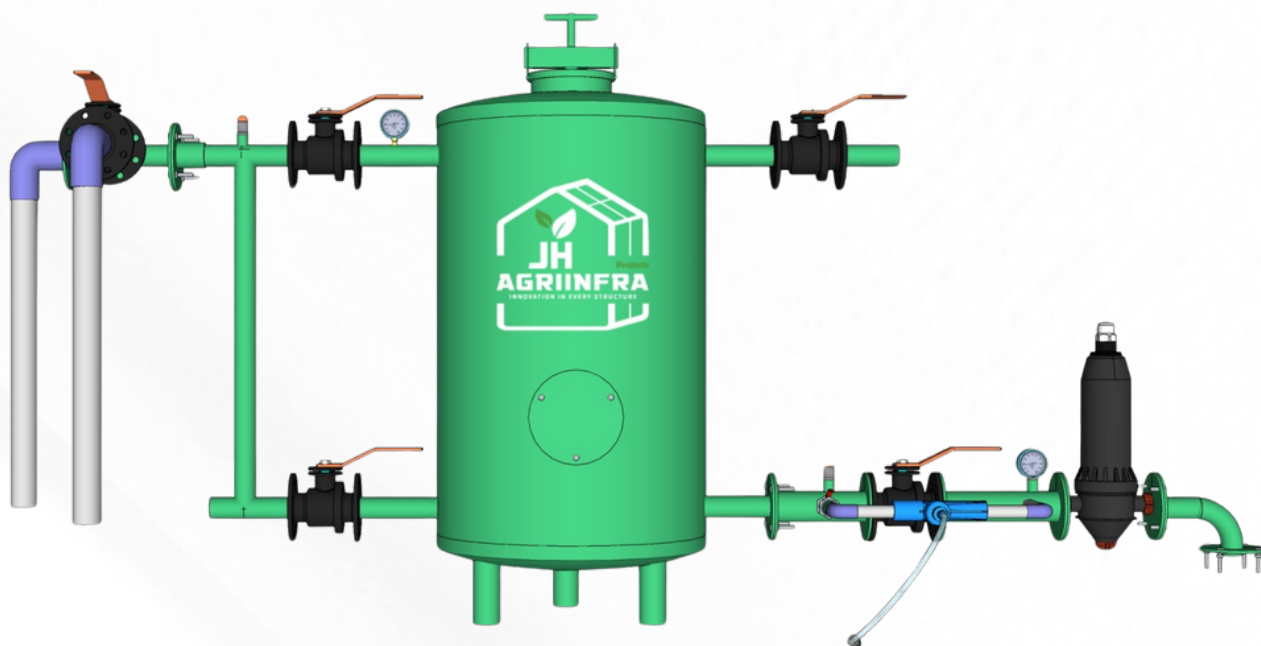


Typical Irrigation Layout

We provide comprehensive irrigation services for both greenhouse and open-field farming. Our services are fully customized to suit different crops, soil types, and climatic conditions, ensuring efficient water management and optimal plant growth across all cultivation methods.



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Head Unit (Gravel Filter and Disc Filter)

Drip Irrigation System

Drip irrigation is a root-zone watering system that delivers water and nutrients directly to the plant base, ensuring consistent moisture levels, minimizing wastage, and supporting healthy, efficient crop growth in both greenhouses and open fields.



Inline Drip Irrigation



Online Drip Irrigation

Technical specifications

- **Lateral Size (mm)** - 12.00, 16.00, 20.00
- **Flow Rate (lph)** - 1,2,4 and 8
- **Dripper Spacing (cm)** - 30, 40, 50 and 60
- **Lateral Thickness (mil)** - 0.40 to 1.40
- **Lateral Type** - Round / Flat
- **Dripper Type** : Online / Inline
- **Dripper Pressure Type** : NPC, PC, PCND
- **Pressure (Working)** - 0.8 to 3.5 Kg/Cm2



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Fogging / Misting System

A fine mist-based cooling system that precisely regulates humidity and temperature, ensuring optimal plant growth in greenhouses by preventing heat stress.

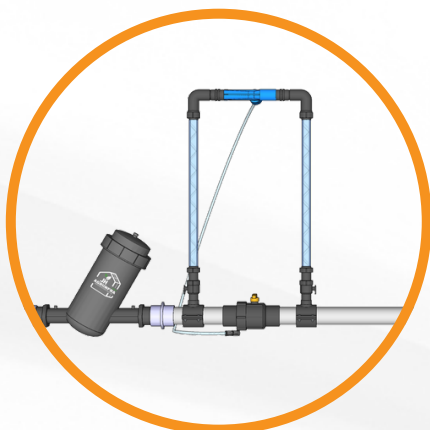


Technical specifications

- **Average droplet size** - 70 microns
- **Flow Rate (lph)** - 5.40 to 42.00
- **Configurations** - single, two and four outlet
- **Operating pressure range** - 3.5 - 5.0 bar
- **Pressure (for flow rate calculation)** - 3.5 bar

Low-Cost Drip Irrigation Kit

A budget-friendly irrigation solution for small greenhouse kit, home gardens, and low-resource areas, ensuring water efficiency at an affordable price.



Technical specifications

- **Screen Filter** - 120 Mesh
- **Venturi** - 3/4"
- **Inline Lateral** - 16 mm x 1.2 LPH x 30 cm
- **PVC** - 50.00 mm - 6 KG
- **Other** - PVC fittings and installation kit included



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Sprinkler System

A versatile and cost-effective irrigation method that efficiently distributes water evenly over a large cultivated area for optimal crop health.



Technical specifications

- **Average droplet size** - 70 microns
- **Flow Rate (lph)** - 30 to 200.00
- **Configurations** - Various Spinner
- **Operating pressure range** - 1.5 - 3.5 bar
- **Pressure (for flow rate calculation)** - 2.00 bar

Rain Gun

A powerful and reliable irrigation tool, rain gun sprays water evenly over expansive fields, promoting balanced soil hydration and robust plant development.



Technical specifications

- **Flow Rate (lpm)** - 200 to 550
- **Trajectory angle** : 27 degrees
- **Recommended Pressure** : 30-70 Psi
- **Radius** : 36 mtr. (approx)
- **Coverage Area** : 1.25 acre (approx)



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Sand / Gravel Filter

Technical specifications

- **Nominal Flow Range (m³/hr)** - 20.00 to 50.00
- **Outlet Size (Inch)** - 2.00" to 3.00"
- **Max Recommended pressure:** 10 bars
- **Back wash assembly** - Yes



Hydrocyclone Filter

Technical specifications

- **Nominal Flow Range (m³/hr)** - 25.00 to 50.00
- **Outlet Size (Inch)** - 2.00" to 3.00"
- **Max Recommended pressure:** 10 bars
- **Manual cleaning** - Yes



Disc Filter

Technical specifications

- **Nominal Flow Range (m³/hr)** - 25.00 to 50.00
- **Disc** - 130 Microne
- **Outlet Size (Inch)** - 2.00" to 3.00"
- **Manual cleaning** - Yes



Screen Filter

Technical specifications

- **Nominal Flow Range (m³/hr)** - 25.00 to 50.00
- **Screen** - 120 to 200 mesh
- **Outlet Size (Inch)** - 2.00" to 3.00"
- **Manual cleaning** - Yes

Irrigations Solutions



**Rubber
Gromate**



**Take off/
Start Connector**



**Joinner/
Couplar**



**End Cap/
Clamp**



Lateral Elbow



Lateral Tee



Lateral Valve



**Air Release
Valve**



Butterfly Valves



Single Union Valves



PVC Flange Valve



PVC Ball Valve



**Flush
Valves**



**Hydraulic
Valves**



**Pressure Regulating
Valves**



**Non-Return
Valves**



Header assembly



**Pressure
Gauge**



Venturi

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PVC Pipes & Fittings



HDPE Pipes & Fittings



Rain Pipes



Inline Lateral Pipes



Plan Lateral



Micro tubes



Online Dripper



Dripper Stack



**Two Way
Adaptor**



**Four Way
Adaptor**



Four Way Fogger



Mist Sprayer



Micro Sprinklers



**Mini
Sprinklers**



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