



Naturally Ventilated Green House

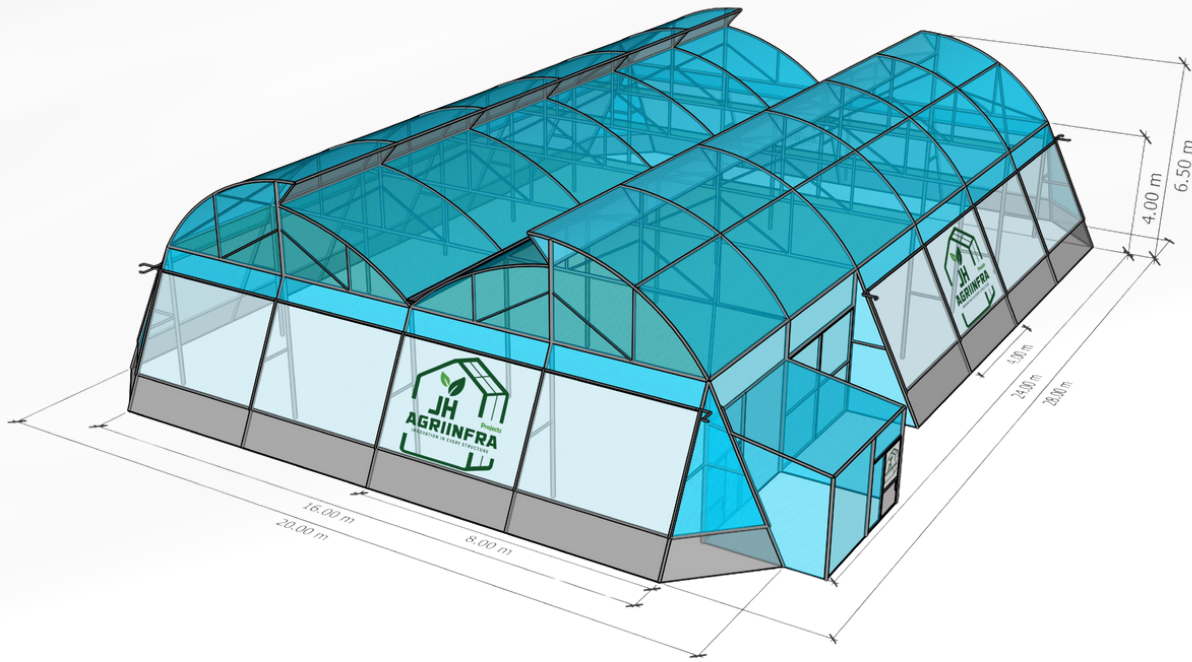
with Top Vent & Side Vent
(Naturally Ventilated Polyhouse)



SSJH Protected Farming Proprietary Limited

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

www.ssjhprotected.com



A Naturally Ventilated Greenhouse is a protected cultivation structure that relies on natural airflow to regulate the internal environment, creating optimal conditions for plant growth without artificial ventilation systems.

Technical Specifications

Structure Frame : 250 to 300 GSM GI Coted Pipe (Round) (Hot Dip GI Pipes)

Thickness of GI Pipe/s (mm) : 2.00, 2.90

Span (m) x Bay (m) : 8.00 x 4.00

Hockey / Corridor (m) : 2.00 on four all side

Centre (Top) Height (m) : 6.50

Side (Gutter) Height (m): 4.00

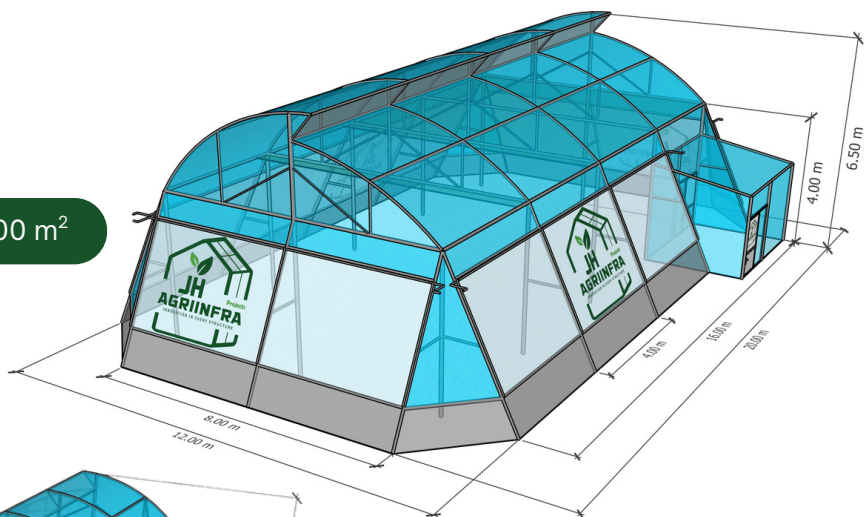
Top Vent Opening (m) : 0.90

Side Vent Opening (m) : 3.00

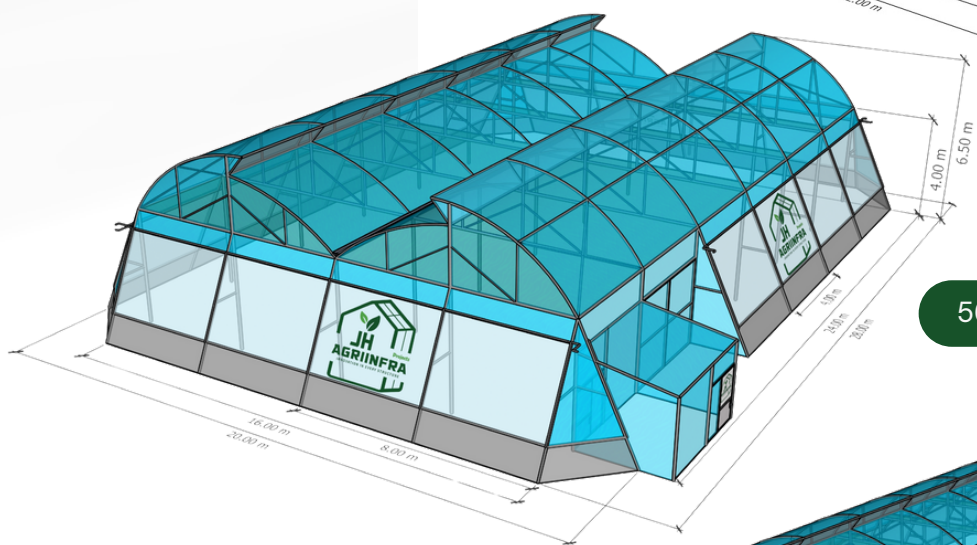
Trellising System Capacity (kg) : 25.00 kg/m²

Rainwater Harvesting Feature : Yes

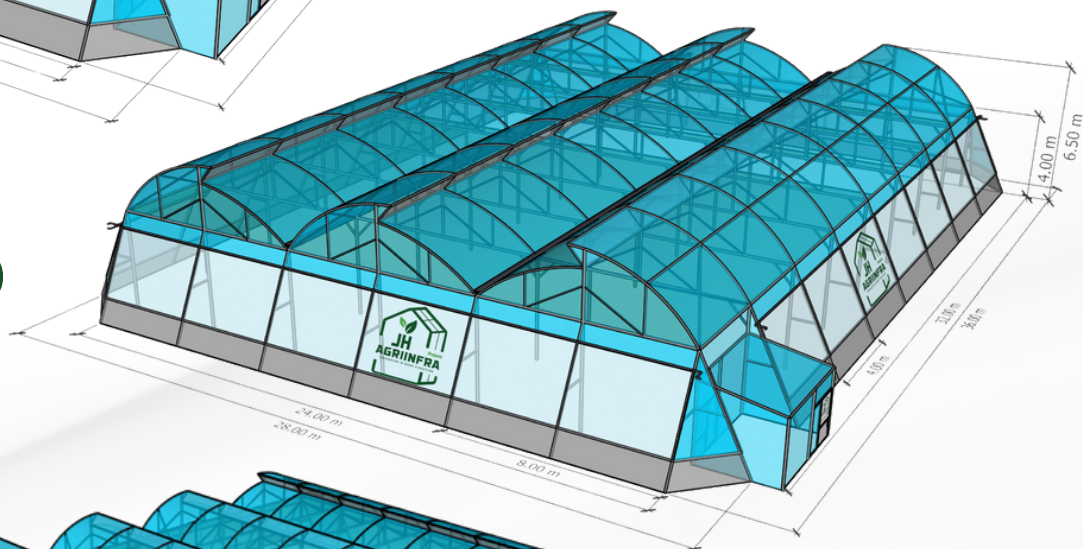
240.00 m²



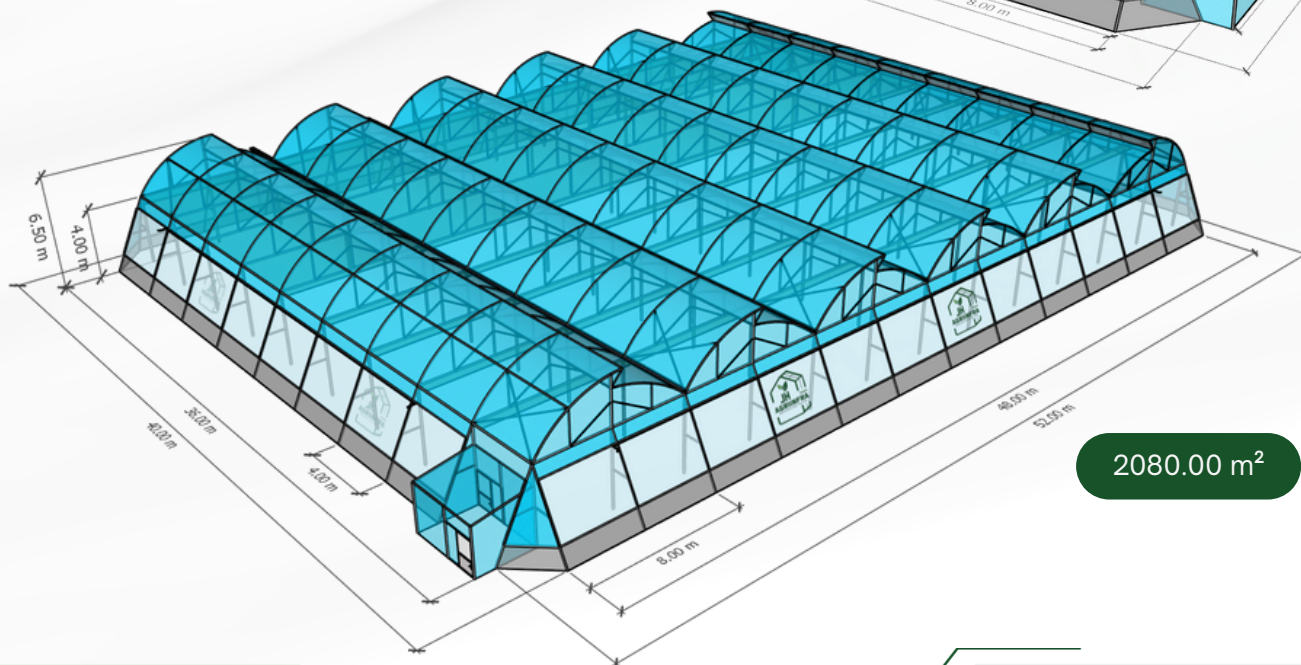
560.00 m²



1008.00 m²



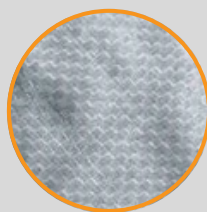
2080.00 m²



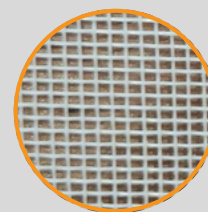
Top & Side Covering



Poly Film 200 Micron, Anti-Drip, Anti-Fog, Anti-Dust, IR Cool, Diffused, Clear or Cool, UV & Agro Chemical Protected

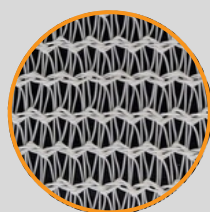


Apron (Skirting) Laminated Fabric, 140 -160 GSM, White or Transparent, UV & Agro Chemical Protected

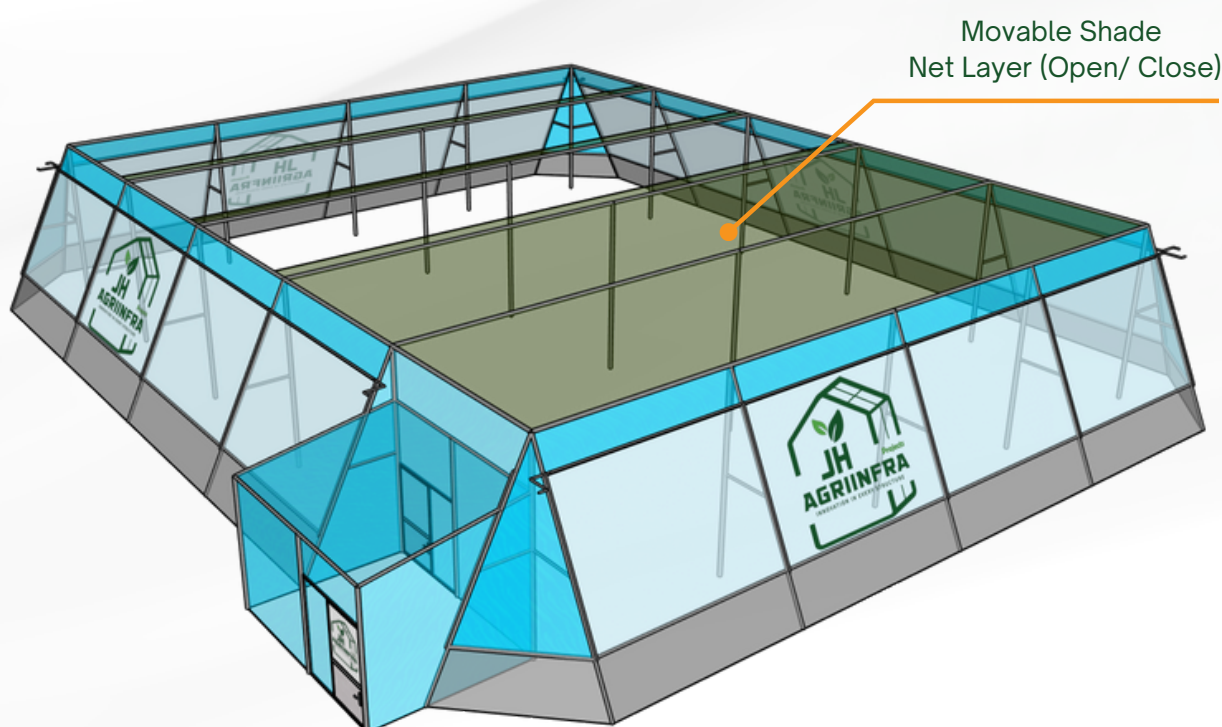


Insect Net 30/40/50 Mesh, 90-120 GSM, White or Transparent or Green, UV & Agro Chemical Protected

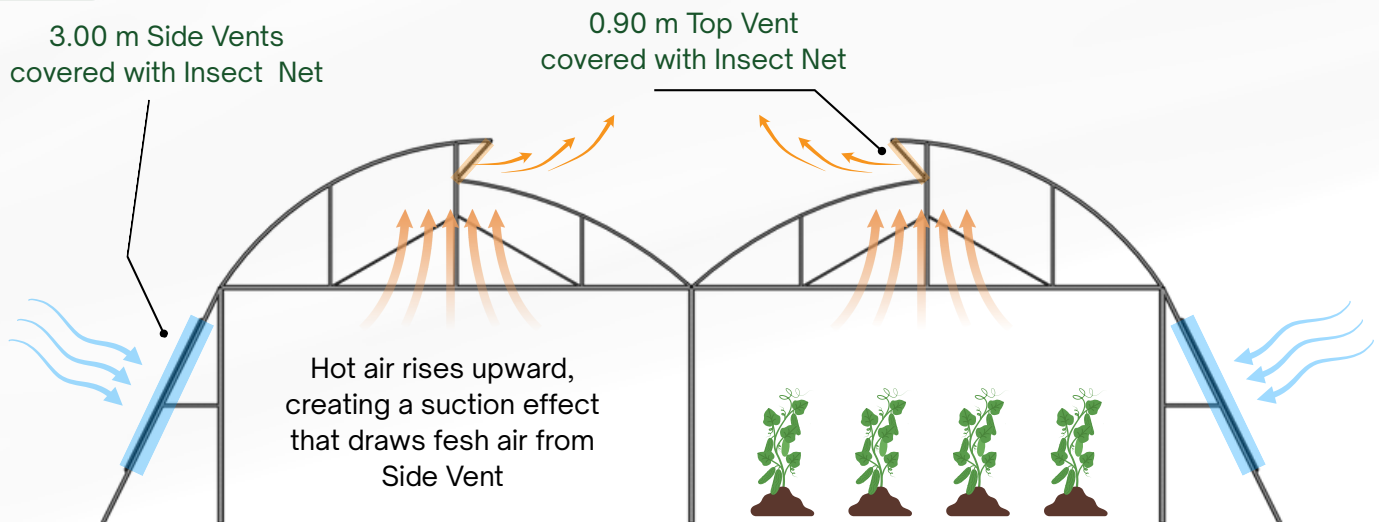
Shade Net (Sliding Layer)



Mono x Mono Shade Net, 50% Shading, 100-125 GSM, White or Green, UV & Agro Chemical Protected



Functioning of Natural Ventilation



NVPH works by using natural ventilation principles such as the stack effect, where warm air rises and escapes through roof vents, while side vents allow cool, fresh air to enter, creating effective cross natural ventilation

Benefits of a Naturally Ventilated Greenhouse

1. **Better Temperature Control** - Uses natural airflow to reduce heat buildup, keeping crops cooler during hot seasons.
2. **Improved Air Quality** - Continuous fresh air circulation removes humidity, pests, and stale air, promoting healthier plant growth.
3. **Energy Efficient** - Reduces or eliminates the need for electric fans and cooling systems, cutting down energy costs.
4. **Cost-Effective Operation** - Lower maintenance and running costs compared to fully climate-controlled greenhouses.
5. **Extended Growing Seasons** - Protects crops from extreme heat and moderate weather fluctuations, allowing for longer cultivation periods.
6. **Eco-Friendly Solution** - Utilizes natural forces (wind and thermal buoyancy) for ventilation, minimizing the carbon footprint.

Basic Drip Irrigation



- ✓ Inline lateral Pipe
16.00 mm x 2 LPH x 30.00 cm
- ✓ PVC Pipe - 50.00 with 6 KG
- ✓ Screen Filter - 120 Mesh/130 Micron
- ✓ Venturi for fertigation
- ✓ All PVC fittings and installation kit included



SSJH Protected Farming Proprietary Limited



Address - PO Box 47007,
Gaborone, Botswana

Mobile - +267 74 435 241
+91 99749 17414

Website - www.ssjhprotected.com

E-mail - info@ssjhprotected.com



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