

Naturally Ventilated Polyhouse

Agrifirst's Israeli-designed Naturally Ventilated Polyhouse — 7m gutter height, 120 km/h wind-rated GI structure, 5-layer Ginegar film. Best NVPH manufacturer in India for commercial farming.



3x better

light penetration with 5-layer polyfilm for superior photosynthesis and plant growth

3x Durability

Withstands 140 km/hr winds with anti-wind breakers and crimped foundation for maximum durability

4x Harvest

Smart vent design maintains ideal temperature and humidity for higher-quality yield throughout the year

ABOUT

Israeli-Engineered Climate-Controlled Polyhouse for Maximum Yield in Indian Conditions

Agrifirst's Naturally Ventilated Polyhouse (NVPH) is India's most advanced protected cultivation structure — designed with 50+ years of Israeli agricultural engineering. Featuring a towering 7-meter gutter height, superior natural airflow, and GI steel frame rated for 120 km/h winds, our NVPH creates the perfect microclimate for year-round commercial farming. Trusted by 500+ farmers across India to deliver 3-5x higher yields than open-field cultivation.

DESCRIPTION

Agrifirst Naturally Ventilated Polyhouse (NVPH) is the gold standard in protected cultivation infrastructure in India. Engineered with Israeli technology refined over five decades and adapted for India's diverse agro-climatic zones, this polyhouse delivers unmatched performance for commercial vegetable, flower, and fruit cultivation.

Why Choose Agrifirst Naturally Ventilated Polyhouse?

- **7-Meter Gutter Height** — Increases internal air volume by 40% compared to standard 4.5m polyhouses, promoting superior CO₂ distribution, reducing heat buildup, and enabling vertical trellising for crops like tomato, cucumber, and capsicum
- **Advanced Natural Ventilation** — Butterfly-type roof vents with insect-proof netting ensure continuous airflow without mechanical systems, reducing operational costs significantly
- **120 km/h Wind-Rated Structure** — Hot-dip galvanized steel tubular frame with reinforced foundations withstands extreme weather — monsoons, storms, and high-altitude winds
- **5-Layer Ginegar Film** — Premium Israeli greenhouse film with anti-drip, anti-dust, UV-stabilization, and optimal light diffusion for uniform crop growth
- **10+ Year Structural Life** — GI frame designed for over a decade of maintenance-free performance with 3-year film warranty

Ideal Applications

Agrifirst NVPH is the preferred choice for commercial cultivation of **tomato, capsicum, cucumber, rose, gerbera, carnation, strawberry, lettuce**, and other high-value crops across all Indian states — from Punjab to Karnataka, Maharashtra to Himachal Pradesh.

Technical Specifications

Structure Type	Multi-span gutter-connected, naturally ventilated
Gutter Height	7.0 meters (industry-leading)



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Span Width	8.0 / 9.6 meters
Bay Length	4.0 meters
Ridge Height	9.5 meters approx.
Frame Material	Hot-dip galvanized (GI) steel tubular — 550 g/m ² zinc coating
Wind Load Rating	120 km/h
Cladding Material	Ginegar 5-layer co-extruded polyethylene film (200 micron)
Film Properties	Anti-drip, anti-dust, UV-stabilized, 85–90% light transmission
Film Warranty	3 years (pro-rata basis)
Ventilation	Butterfly-type continuous roof vent with 40-mesh insect netting
Side Ventilation	Roll-up curtain system (manual or motorized)
Gutter System	Anodized aluminium gutter with integrated rainwater drainage
Foundation	RCC column foundation with anti-corrosion treatment
Optional Add-ons	Shade net curtain, fogging system, drip irrigation, trellising
Area Coverage	Custom — from 500 sqm to 4+ hectares
Structural Life	10–15 years
Delivery & Installation	Turnkey by Agrifirst engineering team across India

Government Subsidy Support

Agrifirst NVPH qualifies for **50–65% subsidy** under NHM (National Horticulture Mission) and state-level horticulture schemes across India. Our team handles the complete subsidy application process — from DPR preparation to installation certification.

ROI & Farmer Earnings

Farmers using Agrifirst NVPH report net annual incomes of **₹8–25 lakhs per acre** depending on the crop grown. The polyhouse typically pays for itself within **2–3 crop cycles** through higher yields, premium pricing, and reduced input costs.

GALLERY

