



WE MAKE FARMING EASY FOR YOU

## GREENFARMING SOLUTIONS

QUANTUM BUILDING, UNIT304, PARIVAHAN NAGAR, MATIGARA, DARJEELING, WESTBENGAL - 734 010, INDIA

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 [greenfarming solutions](#)  [greenfarming solutions](#)



“We have helped our growers benefit a lot from the synergy of technology with innovative designs, high quality low cost manufacturing in India to an end product unparalleled by others We Make Things Easy for You”.

Dilon g. Dastider  
Founder

COMPANY NAME : Greenfarming Solutions | Marrtes Agrisolutions

As we keep saying if we work under protective cultivation there should be homogenous productivity and an accountable model should be applied wherein proper irrigation/fertigation module ,collection of database from individual farmers, monitoring greenhouse temperature & humidity of the spokes , virus/insect detection , low productivity determinants & others alike factors should be available with the horticulture centre with a 'click' vide report generation. Implementing such technology will surely make a significant growth in productivity .

#### ABOUT US :

We been serving the agricultural industry for almost 14 years now. The success of its growers over time has established us as one of the market leaders in the North eastern region of India. Today, we are in vanguard to provide an end -to- end solution to our customers. At Greenfarming™ we work directly with you to integrate our products like Greenhouse, Pack Houses, Water harvesting, PC Drip Irrigation, Climate Control , Automation , Protective Films and Bio Fertilisers into your systems - -- & Buy Back.

GST# 19AAOFG705ON1ZQ

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## PROFESSIONALISM

We believe in exploring collaborative opportunities with partners to build a sustainable and synergistic business while adhering to quality and safety standards. We have strong trade links with an GREENSPAN AGRITECH Indo-Dutch Joint venture company and NETAFIM India (leader in drip irrigation technology from Israel). Together with the combination of our experience in fabrication, trading and distribution, we have helped our growers benefit a lot from the synergy of technology with innovative designs, high quality low cost manufacturing in India to an end product unparalleled by others.

Our website [www.greenfarmingsolutions.com](http://www.greenfarmingsolutions.com) will give you a flavour of how... WE MAKE FARMING EASY FOR YOU.

You are invited to browse our website wherein you could see projects that we have worked on that are similar to your interests. Whether you are looking for a structure that is simple and inexpensive, one that will last for generations, or one that will make an architectural statement, you can find examples of those projects in here

At Greenfarming Solutions<sup>™</sup> we follow a simple business philosophy to devote talent and technology to creating superior installation and after sales services that contribute to a responsible business -thereby promoting sustainable development in agriculture.

## HASSLE FREE

We handle the project needs of our client from concept to installation through support. We study the client's current infrastructure, evaluate the client's needs, specify the mix of technology to nurture and meet the project goals. We partner to install at the client's site(s) and provide service with support - A complete SOLUTION provider.

## GLOBAL FOOTPRINT

We are constantly engaged in positioning ourselves internationally. With the strength of hi-tech installation in Uganda, Kenya, Tanzania, Rwanda, Ethiopia, Nigeria, Dominic Congo, Ghana, South Africa, Suriname (Latin America), Srilanka, Mauritius, Phillipines, Thailand, Vietnam, Indonesia, Australia, Georgia. by Greenspan Agritech - we are making significant progress to develop agri trade flows in our focus geographies that include Bhutan, Nepal, Bangladesh & Myanmar.

The company has three demo farms one at Siliguri (over an acre) – wherein we are growing vegetables under hitech technology under protective cultivation and automation. In Murshidabad, West Bengal, India we have started with seedlings production over an acrea under greenhouse. In Singtam, Sikkim, India we have started constructing our demo farm over 2 acre of land.

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## DEMONSTRATION FARMS

The demo unit has different models of European edged greenhouses which we offer our clients with world class installation using Pressure Compensated inline dripping, gyronet and cojets working through automation and CMT fertigation, air circulation fans, automatic & manually operated internal shading system plus a packhouse. Facilities for farmer training programmes are also arranged in the farm to learn growing techniques under protective cultivation. The company will soon have its overseas demo units in Bangladesh. At greenfarming we follow organic module with full horticultural support and technology. All the demo farms are open to training impartment in collaboration with horticultural support and latest technology for farmers. The continuous support line from the farming section of North Bengal University has further ushered success with holistic development of the regions.

The COMPANY'S MISSION is to provide world class installation through technologically advanced horticultural support to the growers at a cost...

## VISION

Vision ~ Digital agriculture has the potential to transform the way we produce the world's food. We will try to secure its widespread adoption with collaboration and consensus across the value. Big Challenge ? 'we will still make it easy for you'-  
DIGITAL FARMING

The company's vision is to provide integrated digital application into farming -data collection, through to management and processing, as well as guidance and direction. ONE system, to enable farmers and other stakeholders within the agriculture value chain to improve food production.

"Most of today's farmers make decisions such as how much fertiliser to apply based on a combination of rough measurements, experience and recommendations. Once a course of action is decided, it is implemented but the results are normally not seen until harvest time.

In contrast, a digital agriculture system gathers data more frequently and accurately, often combined with external sources (such as weather information). The resulting combined data is analysed and interpreted so the farmer can make more informed and appropriate decisions

These decisions can then be quickly implemented with greater accuracy through robotics and advanced machinery, and farmers can get real-time feedback on the impact their actions."

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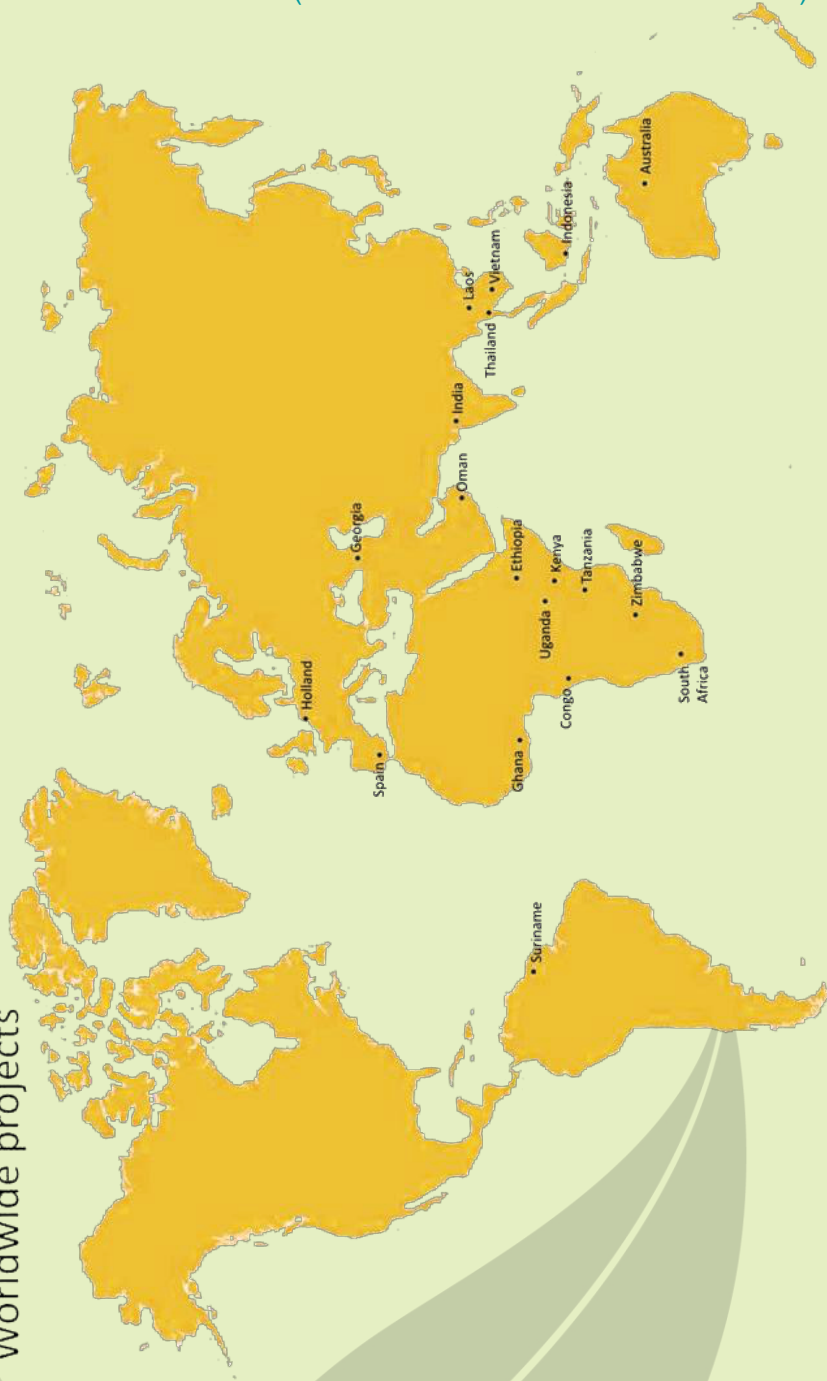
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( Certified ISO 9001:2015 & 14000:2105 )

Worldwide projects



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# 🍁 INSTALLATION 🍁

## CHROMA NURSERY, DIBRUGARH, ASSAM



- **Greenhouse:** Multispan 800 (Sawtooth) Fixed open vent
- **Crop:** Chrysanthemums
- **Internal Shading System:** Aluminate
- **Shading:** Motorized
- **Irrigation:** Pressurized Fogging  
Pot Drippers
- **Total Greenhouse AREA:** 4286m<sup>2</sup>
- **No. of Greenhouse:** 3



# AGRICULTURE BOTANY DIVISION, KATHMANDU, NEPAL PLANT PATHOLOGY CENTRE, KATHMANDU, NEPAL



- **IMPORTED POLYCARBONATE FAN & PAD- CLIMATE CONTROLLED GREENHOUSE**
- **Crop:** Research by Govt. Scientist
- **Internal Shading System:** Aluminate
- **Shading:** Motorized
- **Environmental Controls:** 1) Biotech Heat Convertors with blowers  
2) Fan & Pad  
3) Pressurized Fogging  
(with anti-leak and no drain Pressure Compensated 'cool nets')  
4) Photosynthetically Active Radiation Lamp
- **QUARANTINE ROOM YES**
- **CONTROL PANEL** Microprocessor based control panel with temperature and humidity control system with photoperiodic timers, temperature control system, Plitz timer & Irrigation automation
- **Total Greenhouse AREA:** 440m<sup>2</sup>
- **No. of Greenhouse:** 2







# AGRICULTURE RESEARCH AND DEVELOPMENT CENTRE YUSIPANG (THIMPU),BAJO & GELEPHU,BHUTAN

- **IMPORTED TOP POLYCARBONATE SIDE FILMS FAN & PAD- CLIMATE CONTROLLED GREENHOUSE**
- **Crop:** Research by Govt. Scientist
- **Internal Shading System:** Aluminate
- **Shading:** Manual
- **Environmental Controls:**
  - 1) Biotech Heat Convertors with blowers- YUSIPANG & BAJO
  - 2) Fan & Pad – BAJO & GELEPHU
  - 3) Pressurized Fogging (*with anti-leak and no drain Pressure Compensated 'cool nets'*)- BAJO & GELEPHU
  - 4) Photosynthetically Active Radiation Lamp - YUSIPANG, BAJO & GELEPHU
- **QUARANTINE ROOMYES**
- **CONTROL PANEL:** Microprocessor based control panel with temperature and humidity control system with photoperiodic timers, temperature control system, Plitz timer & Irrigation automation
- **Total Greenhouse AREA:** 360m<sup>2</sup>
- **No. of Greenhouse:** 3



# AGRI MECHANISATION DIVISION GOVT OF WEST BENGAL, COOCHBEHAR

- **SAWTOOTH TUNNELS**
- **Crop:** Vegetables
- **Internal Shading System:** 50% black agro shade net
- **Shading:** Fixed
- **CONTROL:**Head control unit comprising of Screen filters, Ventury kit for fertizers, GM valves. The system is connected to mail sprinkler pipeline, powered with pump run by solar energy.
- **Irrigation:** 1) Overhead Sprinkler Irrigation  
2) Inline pressure compensated drip Irrigation system.
- **Total Greenhouse AREA:** 11000m<sup>2</sup>
- **No. of Greenhouse:** 110nos



- Planting materials supply
- Vermi compost supply
- Seedling trays supply
- Vegetable Seedlings
- Coco peat supply

- **FARMER TRAINING PROGRAMS  
AT VILLAGES FOR USE OF**



# HORTICULTURE DEPARTMENT GOVT OF WEST BENGAL MURSHIDABAD

- **CROP COVER(ECONOMICAL) FOR MARGINAL FARMERS**
- **Crop:** Vegetables
- **Internal Shading System:** 50% black agro shade net
- **Shading:** Manual
- **Accessories:** Side Roll ups
- **CONTROL:**Head control unit comprising of Pump, Screen filters, Fertigation tank, GM valves.
- **Irrigation:** 1) Overhead foggers  
2) Inline pressure compensated drip Irrigation system.
- **Total Greenhouse AREA:**3000m<sup>2</sup>



## HORTICULTURE DEPARTMENT GOVT OF WEST BENGAL

- **SHADE NET COVER**
- **Crop:** Vegetables, Betel Nut Production
- **Internal Shading System:** 50% black agro shade net
- **Shading:** Fixed
- **CONTROL:**Head control unit comprising of Screen filters, Ventury kit for fertizers, GM valves. The system is connected to mail sprinkler pipeline, powered with pump run by solar energy.
- **Irrigation:** Inline pressure compensated drip Irrigation system.
- **Total Greenhouse AREA:**2500m<sup>2</sup>



**CENTRE OF EXCELLENCE FOR FRUITS  
LUNGLEI DISTRICT AT SAICHHOH  
GOVT OF MIZORAM**



# HORTICULTURE DEPARTMENT GOVT OF MIZORAM

**WATER TANK:**  
**5000Ltrs | 10000Ltrs | 1,00,000Ltrs**



# ORGANIC UMBRELLA GROWERS BERHAMPORE , MURSHIDABAD , WEST BENGAL



Majority of the farmers in West Bengal lack the knowhow for germinating seedlings. The capital intensity in building infrastructures, lack of knowhow & high mortality rate of the seedlings are major factors affecting horticulture productivity. Organic Umbrella Growers recognised the growing need and demand for the farmers and established this farm with a mission to give it back to the society

The organisation has invested on technology and construction techniques from Greenfarming Solutions, a world class greenhouse construction company with complete irrigation automation & climate control technology. This model project has state-of-art climate controlled greenhouses , modernised irrigation system, a pack house, a grading hall & a training centre.

#### Location:

Down beside the Gangetic belt of Murshidabad, Khidirpur, a beautiful project has been developed in synergy with the local FPO. Organic Umbrella Growers – a visualisation by the local administration to provide quality seedlings to the farmer, guaranteeing at least 95% germination and thereby increase the horticulture productivity and economy of the district.

Area: >1 Ha

Establishment: 2018

People Employed:

At organic umbrella growers we believe in employment of women power for organic upliftment of village life. We have 6 permanent & 30 regular female workers

#### Aquaculture :

The farm is also engaged in cultivating fresh water populations under controlled environment and also raising 'campbell ducks' within its campus

#### Certifications:

FSSAI licensed and Certified Organic.

#### Crops:

Vegetables: Capsicum / Bell Peppers, Tomato, Broccoli, Cauliflower, Cabbage

Fruits: Strawberry

#### Yield:

Vegetable seedlings- 30 Lacs ; Strawberries – 8 Tonnes; Capsicum- 70 Tonnes

#### Mission:

Giving it back to the society



# NATURAL GROWERS

## SILIGURI, DARJEELING , WEST BENGAL



### Location:

Siliguri (Darjeeling) | 16.7kms from Bagdogra Airport, 6kms from Fulbari-Bangladesh Border, 30kms to Panitanki-Nepal Border and 158kms to Jaigaon-Bhutan Border. NewJalpaiguri Railway station which connects to almost all major cities within the country is just 13kms from the farm.

Area: >1 6000sqm / 1.5acre

Establishment: 2018

People Employed: 5

Vegetables:

Capsicum / Bell Peppers, Tomato

Fruits:

Strawberry , strawberry seedlings

Yield:

Strawberries – 8 Tonnes; Capsicum- 70 Tonnes, Tomatoes – 60 tonnes

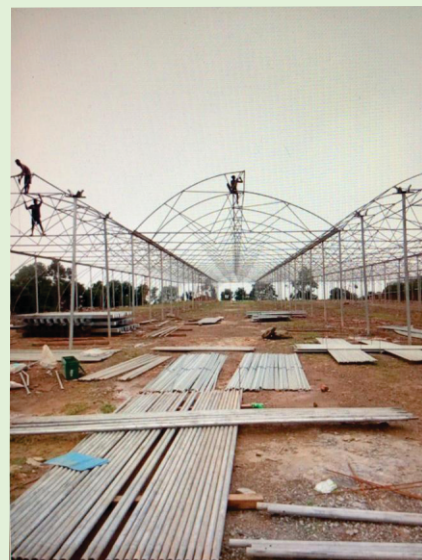
Description:

Protective cultivation with Pressure compensated inline dripping, gyonet and cooljets working through automation and CMT fertigation. The demo unit has different models of European edged greenhouses which we offer our clients with air circulation fans, automatic & manually operated internal shading system plus a packhouse. Facilities for farmer training programmes are also arranged in the farm to learn growing techniques under protective cultivation. At Greenfarming we follow organic module with full horticultural support and technology.

Currently we are cultivating the bell peppers soil less in growbags providing nutrigration through arrow drippers. The farm is 100% organic compliant. The strawberry is cultivated both under greenhouses and open field in beds under mulched film. We are also growing herbs and leafy vegetables under hydroponic technology at the farm .

## MAINAAM GARDENS for ORCHIDS RABONG , SIKKIM

- **MULTISPAN 960 FIXED OPEN VENT WITH MOTORISED VENTS AND ROLL UP**
- **Crop:** ORCHIDS
- **Internal Shading System:** Aluminate
- **Shading:** Automated
- **Environmental Controls:**
  - 1) BLOWERS
  - 2) AIR CIRCULATION FANS
  - 3) EXHAUST
- **QUARANTINE ROOMS**
- **CONTROL PANEL: NUTRIGATION MANAGEMENT SYSTEM** with 'NETBEAT' technology AND WEATHER STATION FOR IRRIGATION AND AUTOMATIC ENVIRONMENTAL CONTROLS
- **PACKHOUSE:** 260sqm
- **WATER TANK :** 1,50,000 ltrs
- **Total Greenhouse AREA:** 12,400M<sup>2</sup>



# INTERNATIONAL EXECUTION WITH COLLABORATOR GREENSPAN AGRITECH



**MULTISPAN 960 FIXED OPEN VENT | 22HA | ROSES | KENYA**



**MULTISPAN 960 FIXED OPEN VENT | 40 HA | ROSES | KENYA**



**MULTISPAN 960 FIXED OPEN VENT | 25 HA | ROSES | UGANDA**



**960 UMBRELLA VENT | 4 HA | VEGETABLES | ETHIOPIA**

## DUTCH GREENARY, RAYONG, THAILAND



- SCREEN HOUSE FOR SEEDLING
- UMBRELLA VENT GREENHOUSE
- 960 MULTISPAN FIXED VENT GREENHOUSE
- HYDROPONIC
- IRRIGATION SYSTEM
- FAN & PAD
- PREFABRICATED WATER TANK
- GROW BAGS RIZWAN TOMATOES
- MOTORISED INTERNAL SHADING



# CONTENTS

<b>MULTISPAN GREENHOUSES</b>	
Sawtooth	02
Umbrella Vent	02
Sawtooth Trellis	02
Autovent Single / Double	02
<b>TUNNELS</b>	
Tunnels designed for hills	03
<b>CROP COVER</b>	
Sawtooth / Fixed	03
Multi Tunnel	04
Shade House	04
Rain Cover	04
Anti-bird Cover	04
<b>GREENHOUSE ADDITIONAL FEATURES</b>	
Pad & Fan System	05
Motor & Climatic Computers	05
Greenhouse Doors	05
Internal Shading System	05
Side Ventilation System	06
Rollup In Vent	06
Air Circulation Fans	06
Illumination inside Greenhouse	06
<b>PROFESSIONAL SOLUTIONS FOR SEED &amp; PACK HOUSE</b>	
Pack House – Grading Hall	07
Polycarbonate Greenhouse	07
Growing Benches	07
Polypots / Growbags	07
Polypot / Growbag Irrigation	07
<b>RAINWATER HARVESTING</b>	<b>08</b>
Geomembrane Liner- Pond Lining for Conserving water	08
Prefabricated Water Storage Tanks	08
Foldable Water Tank	08
<b>NETTING, GROUND COVER AND FILMS</b>	
Insect Netting	09
Eco Shade Netting	09
Mulch Films	09
Ground Cover	09
Greenhouse Films	10
<b>IRRIGATION</b>	
Inline Drippers	11
Online Drippers	11
Sprayers for Greenhouse	11
Foggers	11
Sprinklers	11
Head Control Unit	12
Piping and Fittings	13
<b>OPTIMISING THE TECHNOLOGY</b>	
Unmanned Pest Control and Fogging Machine	14
Sky Transport System	14
<b>ANIMAL SHED</b>	<b>15</b>
<b>INSTALLATIONS</b>	<b>16</b>

## MULTISPAN 800/960 GREEN HOUSES

These are fixed open top ventilated greenhouse with multiple options to provide an ideal solution to grow a wide range of crops in varied climatic conditions.

**Bay width:** 8/9.6 meters | **Gutter Height:** 3m to 4.5m | **Window Opening:** 1.1m | **Construction:** Galvanised steel structure covered with special "long Life" 3 layer greenhouse film & insect netting for sufficient ventilation | Prefabricated components Easy to assemble



### SAWTOOTH

- ✔ Large air flow volume
- ✔ Excellent rain overlap
- ✔ Roll-up sides to provide additional ventilation
- ✔ Large scale professional flowers, vegetable growers and cutting companies



### SAWTOOTH TRELLIS

- ✔ Horizontal trellis every 4 meters
- ✔ Hanging crops like Tomatoes, Cucumber and Bell pepper

### UMBRELLA VENT

- ✔ Double side opening leads to more ventilation
- ✔ Warm tropical weather condition



### AUTOVENT SINGLE / DOUBLE

- ✔ Best suited for growers with emphasis on climate control, optimal growth and high yields
- ✔ Independent roof opening by moving mechanism using European union certified geared motors, rack and pinions
- ✔ Sensor based automation
- ✔ 2 layers of film blown under compact pressure
- ✔ Options for Closed roof integrated system with exhaust fans and cooling pad
- ✔ Temperature and humidity control
- ✔ Suited for high valued crops , very cold or hot & dry climate.

# TUNNEL GREEN HOUSE

## TUNNEL DESIGNED FOR HILLS (PREFABRICATED)

- Galvanised steel structure covered with special “Long Life” 3 layered greenhouse film
- Bay width: 5/6 meters | Gutter Height: 2.5m to 3m
- Skirting with aprons on all sides
- Insect netting for sufficient ventilation above aprons
- Telescopic insertion of the foundation
- Corridor cables with aluminium ferrule fixed to ground hooks for every columns to withstand high wind velocity
- Aluminium sliding, Polycarbonate or insect lock doors at gable end
- Options of Roll up side ventilation
- Option with “Y” socket for multi tunnel expansion.
- Options with umbrella top vent for more ventilation
- Modular, easy to self-build
- Multipurpose growing for flowers, vegetables and other crops



## CROP COVER

### SAWTOOTH/FIXED

- Economical solution to the farmers at low cost yet having main features of a standard greenhouse
- Prefabricated multi span structures with steel gutters
- Easy to build and expand 3-layered long life greenhouse film for roof
- All sides covered with insect netting
- Closed roof or open top ventilation
- Increased yield with improved crop quality and round the year production
- Saving in chemical and pesticide cost
- Widely used for vegetables, herbs, young plants and flowers.



CROP COVER (SAWTOOTH)



CROP COVER (FIXED)

# CROP COVER

## MULTI TUNNEL

- ✔ A simple solution to protect outdoor crops from rain and wind
- ✔ Adjustable film position to suit your crop needs
- ✔ Film protected by heavy duty tension cables
- ✔ Easy to build and rebuild with screw anchors
- ✔ Increases yield
- ✔ Saving in chemical and pesticide cost
- ✔ Widely used to advance short season crops like strawberries and most vegetables



## SHADE HOUSE

- ✔ Modular span : 5 x 5 meters
- ✔ Height : 3 to 5 meters
- ✔ Durable and strong mono filament netting (30%, 45%, 60%, 70% shade) with eyelets on the edges
- ✔ Protective from excessive sunlight, larger insect and wind
- ✔ Ideally suited for nurseries and pot plants

## RAIN COVER

- ✔ Quick assemble modular system
- ✔ Available in custom made spans in line with your plant row dimensions
- ✔ Easy removal of film covers for the dormant winter rest period
- ✔ Climbing crops supported with built in crossbars and wires
- ✔ Best suited for maximising yield in raspberries, blueberries and grapes



## ANTI BIRD COVER

- ✔ Mesh size 15 x15 mm upto 30 x 30mm
- ✔ Modular system of galvanised poles and tension wires
- ✔ Protection from heavy winds
- ✔ Durable and strong anti-bird netting in white / black / green
- ✔ Wide sheets for easy and fast coverings
- ✔ Designed to support bird sensitive crops like grapes, blue berries and raspberries



# GREENHOUSE ADDITIONAL FEATURES

## PAD & FAN SYSTEM

- ✔ Controls humidity and temperature simultaneously
- ✔ The cellulose pads are located in the gable of the greenhouse, fixed in polyurethane pre-coated steel gutters
- ✔ European union make fans of designed output provided along with extra bracings for fixation
- ✔ Provision of corridor outside the section that has the pad, covered with netting. This is to prevent the dust from blowing into the pads



## MOTOR AND CLIMATIC COMPUTERS



- ✔ Enables to maintain an ideal climate inside the greenhouse
- ✔ Spares and service backups available

## INTERNAL SHADING SYSTEM

- ✔ Motorised wire or push pull system
- ✔ Wide choice of shade netting and energy saving nettings
- ✔ Protects crop from excessive light and heat
- ✔ Black out system for short day crops

## GREENHOUSE DOORS



- ✔ Easy to install top rolling sliding doors
- ✔ Insect lock areas can be easily created
- ✔ Sizes: 2.4 x 2.4 meters OR 3.0 x 3.0 meters
- ✔ Jumbo Double or Single panel sliding doors in any size
- ✔ Aluminium and twin walled Poly - carbonate glazing panels



# GREENHOUSE ADDITIONAL FEATURES

## SIDE VENTILATION SYSTEM



- ✔ Manual & motorised operations
- ✔ Bottom to top or top to bottom movements on all sides of the greenhouse
- ✔ Choice netting in open section
- ✔ Automated operations with sensor based technology

## ROLL UP IN VENT



- ✔ Easy to install
- ✔ Low operation and maintenance cost
- ✔ Useful tool to time your crop and enhance quality

## AIR CIRCULATION FANS



- ✔ Easy to install and operate
- ✔ Very low power consumption
- ✔ Flexible height adjustments
- ✔ Control your Botrytis and Downy problems
- ✔ Effective to reduce the temperature and damages due to high humidity

## ILLUMINATION INSIDE GREENHOUSE



- ✔ Light support system
- ✔ Designed with LED lights

# PROFESSIONAL SOLUTIONS FOR SEED & PACK HOUSE

## PACK HOUSE - GRADING HALL



- ✔ A prefabricated steel structure, based on the standard modular design
- ✔ The roof is made from a 3 layer reinforced fabric with a "Long Life" durability
- ✔ Glass wool insulation keeps the building cool during day time and warm during the night
- ✔ The top of each span has an open top vent to allow ventilation and light to come in

## POLYPOTS / GROW BAGS



- ✔ Excellent growing medium for seed raising, floriculture and horticulture applications
- ✔ Packed in high density, co extruded plastic bags
- ✔ UV treated for 2-3 years
- ✔ Minimises transplant shock
- ✔ Rapid and denser rooting
- ✔ No revetting problems
- ✔ High air filled porosity
- ✔ Enhanced root penetration
- ✔ Free from weed seeds or pathogens
- ✔ Can be laid out as required, helps better irrigation
- ✔ Reusable year after year

## POLYCARBONATE GREENHOUSE



- ✔ One of the strongest greenhouse coverings
- ✔ Made of polycarbonate transparent as glass with natural ultraviolet filter
- ✔ With better retention properties the air pockets between the two walls act as an insulator and light transmission is very good through this material
- ✔ Better light diffusion

## GROWING BENCHES



- ✔ Prefabricated flexible galvanised tubular systems
- ✔ Designed to carry weight up to 75 kilos per square meter
- ✔ Suited to grow mother plants or propagate any type of crop

## POLYPOT / GROW BAG IRRIGATION



# RAIN WATER HARVESTING

## GEOMEMBRANE LINER - POND LINING FOR CONSERVING WATER



- ✔ Superior quality using the latest technology and improved UV stabilizers
- ✔ Thickness 199 to 1500 microns
- ✔ Custom made, pre welded to any size with advanced welding system by experts on location
- ✔ Maximum use of each rain drop
- ✔ U.V.Stabilization up to 10 years
- ✔ Prevents loss of water compared to clay or concrete
- ✔ Protects the slopes and banks from erosion especially due to wind or wave action
- ✔ Chemical substance resistance
- ✔ Puncture resistance
- ✔ Tensile impact strength
- ✔ Tear resistance and flex crack resistance to high humidity

## PREFABRICATED WATER STORAGE TANKS

- ✔ A Prefab system of corrugated galvanised metal sheets, capable of storing large amount of water
- ✔ Inside liner of heavy duty 3 layer membrane
- ✔ Floating or standing top cover optionally available.
- ✔ Easy to install without special tools or skills
- ✔ A wide choice of diameters and heights, up to 1600 m3 capacity

	Diameter	Height in mtr	Volume in m3
Minimum	1.82	0.81	2
Maximum	30.95	2.36	1775



## FOLDABLE WATER TANK



- ✔ Available capacity 200-2000 Litres
- ✔ Economical and affordable to even marginal farmers
- ✔ Very low transportation cost
- ✔ Strong structure with flexible characteristics
- ✔ Heavy duty and highly flexible
- ✔ Anti-algae and anti-bacterial
- ✔ Collapsible, compatible and durable
- ✔ Gives 5-years of shelf life against UV degradation

INLET



OUTLET



# NETTINGS, GROUND COVER AND FILMS



## POLYAM INSECT NETTING.

1. To make your greenhouse insect proof or cover outdoor crops
2. High quality accurately woven netting with a long life performance, UV stabilize for three years
3. Maximum ventilation capacity and high transparency
4. Excellent tear resistance and easy to fix in side and vent openings

## ECO SHADE NETTING

1. Protects your crop from excessive sunlight, wind and hail
2. increased crop quality due to a better micro climate
3. made from knitted poly ethylene yarn
4. maximum UV stabilized and long lasting quality
5. Available in black green and white colour
6. Shades 30%, 50%, 70%



## MULCH FILMS

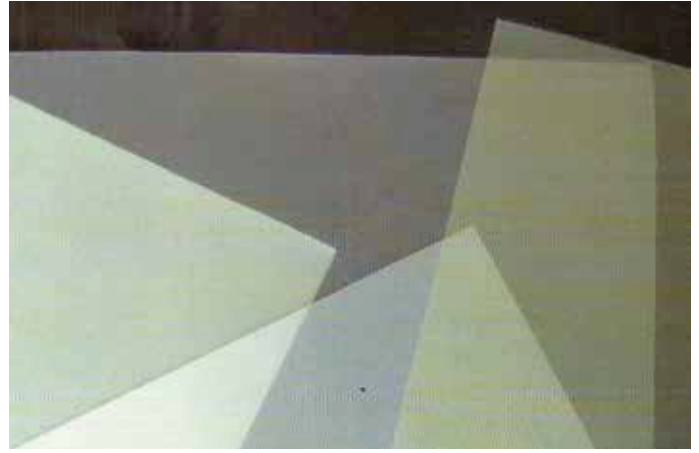
1. Reflective non-embossed & embossed for extra strength
2. Single/double color & UV stabilized
3. Reduces fertiliser leaching
4. Reduces escape of air
5. Fumigation keeps soil intact
6. Bi-colored mulching films reduce soil compaction
7. Thickness: 5 micron to 100 micron
8. Width: 0.6 meters to 2.4 meters
9. Length: 400 to 1000 meters

## GROUND COVER

1. Woven fabric to cover the soil inside the greenhouse or outside
2. Prevents weed growth
3. Keep your green house clean and prevents disease
4. Maximum UV stabilised and densely woven quality
5. Space lines in length direction for easy spacing of beds and plants
6. Available in 120/160gsm



# NETTINGS, GROUND COVER AND FILMS



## GREENSPAN GREENHOUSE FILMS

A superior range of greenhouse films with superior properties on quality, performance and durability.

Made by one of the world leaders in high-tech film manufacturing using European master batches and UV stabilizers.

All films provided with identification marking and date coding.

Stocks of jumbo rolls of all major film types available ready to cut on customized sizes leading to fast supplies.

Available in a wide range of widths up to 12 meters in any length up to 200 meters.

Data sheets available on request.

Greenspan films beat the lifetime of any other film by minimum 1 year.

## GREENSPAN FILM ADVANTAGES

3 layer film

3 layer co-extrusion technology gives optimum strength / each layer with its own properties for optimal performance and durability

UV protection

Maximum UV stabilized includes films with Hals and nickel UV stabilizers

Anti drip

Additional treatment with anti drip additives prevents falling condensation drops

UV open film

Special film open for UV light (bi color film) improves color of flowers and fruits

## TYPES OF FILMS



**Clear Films**  
Maximum light transmission



**Diffused Films**  
Light penetration is diffused less risk of burning



**Shades Films**  
Films with built in shade factor of 25-40%  
  
Perfect for shade loving plants



**Web Film**  
Reinforced film with a high tear resistance  
  
Used for sides vents and skirting

# IRRIGATION



## IN LINE DRIPPERS

- ✔ Comes in 12mm & 16mm tube of 300/500 meters length in flat or round forms
- ✔ Built in turbulent flow emitter inseparably welded inside wall of the tube at different spacing
- ✔ Filter for each emitter
- ✔ Available in wide range of spacing with pressure compensating and subsurface application
- ✔ Widely used for close spacing crops-vegetables, flowers
- ✔ Used for fertigation



## SPRAYERS FOR GREEN HOUSE

- ✔ Durable made of engineering plastic, not ordinary plastic
- ✔ Mini angled sprayers in 180 and 360 degrees
- ✔ Comes in different flow rate of 40-160 Lph
- ✔ Large area coverage, fine droplets
- ✔ Widely used for nurseries, vegetables and horticulture crops under greenhouse



## ON LINE DRIPPERS

- ✔ The original take-apart emitter.
- ✔ Comes in different flow rate of 2Lph, 4Lph, 8Lph, 16Lph
- ✔ Installation versatility - can be installed directly on tubing or on distribution tubing.
- ✔ Also available in pressure compensating, no drain and adjustable range
- ✔ Widely used particularly for orchards, coconuts, grapes etc.



## FOGGERS

- ✔ It can produce ultra-fine droplets ranging from 140 to 70 (average) microns, depending on pressure and with very low flow.
- ✔ Comes in different flow rate of 8-16 Lph
- ✔ Wetted diameter of 4m
- ✔ Widely used particularly for vegetables

## SPRINKELRS

- ✔ Sprayers available in 180 and 360 degrees
- ✔ Comes in different flow rate of 60-300 Lph
- ✔ Wetted diameter of 4-11m
- ✔ Higher flowrate and wetted diameter also available
- ✔ Widely used particularly for vegetables

# IRRIGATION HEAD CONTROL UNIT

## MANIFOLDS



## PRESSURE GAUGE



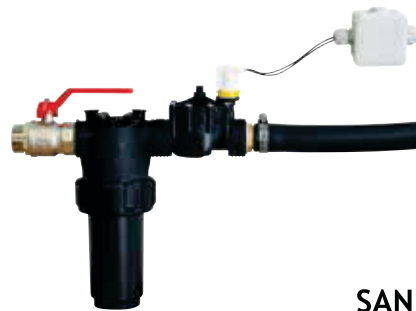
## HYDRO CYCLONE FILTER



## DISC FILTER



## SCREEN FILTER



## SAND FILTER



## FERTILISER TANK



## VENTURY



## PRESSURE REGULATING VALVE



## WATER METER





# OPTIMISING THE TECHNOLOGY

## UNMANNED PEST CONTROL AND FOGGING MACHINE



- ✔ An unmanned agricultural chemical sprayer, especially designed for greenhouses
- ✔ Atomizes agricultural chemicals into nano-particles and sprays the nano-particles creating a fog effect
- ✔ Saturates an entire greenhouse with nano-particle fog, thus disinfecting crops, air and soil inside the green house.
- ✔ All system is computerized
- ✔ Timer-type automatic control unit with variable hours
- ✔ spraying and late night spraying function
- ✔ Automatic nozzle cleaning of the machine
- ✔ Prevents nozzles from being clogged

## SKY TRANSPORT SYSTEM

A value-added sustainable Aerial Transportation System which is effective for transportation of goods or crops from field to pack houses. It increases efficiency by saving time, labour cost and retains quality of the produce.



# IRRIGATION PIPINGS AND FITTINGS

## THROTTLE VALVE FOR MANIFOLD



## AIR RELEASE VACUUM VALVE



## PVC FITTINGS



## NON RETURN VALVE



## LLDPE TUBING WITH FITTINGS



- LLDPE Tubing in 100/300/500 meters roll
- Available sizes 12/16/20 mm
- Special compound for strength, toughness and crack resistance
- Full range of fittings

## HDPE PIPES WITH FITTINGS



- HDPE Pipes in 6 meters length
- Available sizes 40 / 63 / 75 / 90 / 125 / 150 / 200/250 mm
- Different pressure ratings
- Full range of available fittings like Couplers, Tee, Elbow, End cap, GI to HDPE converter

## HDPE TUBING WITH FITTINGS



- HDPE Tubing in 100 meters roll
- Available sizes 20/32 mm
- Full range of fittings like Couplers, Tee, Elbow, End cap, GI to HDPE converter

## ANIMAL SHED

### POULTRY HOUSE



### COW HOUSE



### PIGGERY HOUSE



- ✔ Structure built to European standards
- ✔ Roof of corrugated steel sheet with aluminium cladding inside
- ✔ Environmentally controlled rooms with exhaust fans in the end walls and evaporative cooling pads located in the plenum wall. The plenum wall provides both cooling of the incoming air as well as light control.
- ✔ All verticals, trellis, foundations, purlins etc. are galvanised, anticorrosive and durable. Galvanisation is according to international standards.
- ✔ Sliding Steel door of size 1.2 x 2.4m on front side of the house
- ✔ Standard size for the prefab structure for Poultry house 10m x 48m
- ✔ Standard size for the prefab structure for Piggery house 10m x 24m
- ✔ Standard size for the prefab structure for Cow house 14m x 48m



# PROJECTS



## West Bengal



## Assam



## North East



## International





OVER **1200** INSTALLATIONS

... WE MAKE FARMING EASY FOR YOU





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