



EARTH AGRO
STRUCTURES PVT. LTD.
PERFECTION IN PRECISION FARMING
ISO 9001-2015 CERTIFIED COMPANY



AGROPLAST
INDIA



✉ info@earthagro.com

🌐 www.earthagro.com

COMMITTED TO INNOVATION

QUALITY PRODUCT & SERVICE EXCELLENCE

OUR PHILOSOPHY

Creating value through Innovative Agriculture Business solutions, Unbridled support and consistent skill development for Employees. We strive to create a tangible support function for Distributors/ Sub Dealers and Shareholders.

OUR VISION

We dream to be one of the most dynamic companies in the sphere of Precision farming. We are endeavouring to become the first name in Precision Farming. We strive to build a sustainable business model.

OUR MISSION

We are a Science & Technology company. We aspire to be market leaders in designing and development of Green Houses, Poly Houses, Poly Sheds for Bio-Composting, Mist Chambers, and Shade Net Houses in India on substantial scale. We are dedicated to innovate, develop and implement best practices in agriculture technology to enhance agricultural output, improve social conditions, and reduce the burden on our strained eco-system. We aspire to consistently provide sustainable business solutions essential to a better, safer and healthier life for people everywhere.

OUR VALUES

Our foundation is built on our values, which distinguish us and guide our actions. We aspire to enhance our VALUE by providing quality products and unsurpassed customer service. We believe in ethically building on Business Volumes and our core values portray Innovation, accountability, honesty and quality.

In our core Green House Business, we aspire to create new technology Structures and various other masterful innovative models to meet the customized needs. We strongly believe that the seeds of success lie in the aptitude for Innovation, Professional Integrity, Strong Leadership and Meticulous Delivery Model.

PRODUCT OFFERINGS

EASPL has a diverse Product Portfolio. Our Product Portfolio includes a wide range of Green House covering from Ginegar, accessories for Green House like Insect Net, Shade Nets, FAN and Pad Cooling System, Aluminium and GI Profile, Alumnet, Soil Less Troughs, Weed Mat and Mulch Film 25-100 Microns, Ground Fabric and entire range of Irrigation systems.

We are leaders in making ultra-modern Poly Sheds in India as per guidelines laid down by CPCB/MoEF. We had been creating new technology Poly Shed Structures and various other masterful innovative models to meet the customized needs.

We are prime suppliers of Anti Hail Net for crop protection in the State of Himachal Pradesh, Uttarakhand and J&K.

We are major Suppliers of Poly Shed structures covering Bio Compost yard in Sugar, Chemical and Distillery Industry.

We are suppliers of wide range of Solar and Electric Fencing and Best Quality Energizer Machines

GREEN HOUSE STRUCTURES



GREEN HOUSE

Earth Agro designs and creates greenhouses incorporating the perfect balance of humidity, temprature and light to permit plants to flourish. Each parameter can be controlled individually depending on the plant requirement. That is about the interiors. As for exteriors, the structure itself is fabricated using quality modern structural materials like steel, aluminum and polycarbonate sheet to suit local weather conditions and with the end purpose in mind. The structures have a aesthetic appearance and are strong. We fabricate greenhouses to withstand rain, snow and strong wind. One of our specialties is design and fabrication of Research Greenhouses to enable scientists to carry out in-dept studies on plant growth. These greenhouses confirm to MIDH guidlines with parameters modified to suit specifications of customers.



The main benefits of a greenhouse are:

- Good distribution of light inside the greenhouse.
- Energy efficiency.
- Control of microclimate.
- Protection against diseases, pests and other vermin.
- Excellent ventilation.
- Optimum sealing against rain and air.
- Increased production.
- Production off-season.

POLY HOUSE

1. Hi-Tech Poly House with fan and pad system
2. Naturally Ventilated Polyhouse
3. Mist Chamber
4. Poly tunnel



Naturally Ventilated Poly House

The crops grown in open field are exposed to vivid environmental condition, attack of insects and pests, whereas the polyhouse provides a more stable environment. Polyhouse can be divided in two types.

a) Naturally Ventilated Polyhouse

These polyhouse do not have any environmental control system except for the provision of adequate ventilation and fogger system to prevent basically the damage from weather aberrations and other natural agents.

b) Environmental Controlled Polyhouse

This type of polyhouse helps to extend the growing season or permits off-season production by way of controlling light, temperature, humidity, carbon-dioxide level and nature of root medium.

NET HOUSE

1. Flat Roof Net House
2. Wire Rope Net House
3. Net House (Dome Shape)



NET HOUSE

A net house is a kind of greenhouse. A net house is a mechanical structure made using galvanized steel covered by nets or insect nets. Such net houses allow an only appropriate amount of heat, air and moisture to pass through them to create the required climatic conditions for the better growth of the plant. This way the net houses allow the plants to grow the healthiest. The primary function of this agriculture net house is to reduce the light intensity. The shade net does not allow the maximum light to pass through it as it is created using polyethylene thread and UV treated material which helps in either blocking or reducing the light intensity. Also, the net house blocks the heat out and aids in trapping the heat within the net house to create optimum weather conditions required for the plant growth. This feature of a net house allows the farmers to grow crops even in the off-season which proves to be fruitful because of the demands of the population these day. The best example of net house farming is cauliflower crop production. Cauliflower is a winter crop, but with net house farming, you can grow cauliflower even in summers under a controlled environment.

The Main benefits of a Nethouse are:

- Shade net houses aid in cultivating vegetables, flowers and fruits in the off-seasons regardless of the climatic conditions. The net house helps maintain a required temperature for efficient and better plant growth. The off-season production allows the farmers to grow crops around the year leading to high crop production.
- Net house farming is generally practised in nurseries, especially the fruit and flower nurseries where farmers keep the plants in the shade for the required nourishment and growth.
- Net house protect your crop from natural disturbances like rain, wind, hail, snow etc. and allow the trapped heat to pass through them to help the plants from being affected by the climatic conditions.



HYDROPONIC SYSTEM



HYDROPONIC SYSTEM

Hydroponics is a subset of hydroculture, which is a method of growing plants without soil by using mineral nutrient solutions in a water solvent. Terrestrial plants may be grown with only their roots exposed to the mineral solution, or the roots may be supported by an inert medium, such as perlite or gravel.

- Benefits of hydroponics:
- The ability to produce higher yields than traditional, soil-based agriculture
- Allowing food to be grown and consumed in areas of the world that cannot support crops in the soil.
- Eliminating the need for massive pesticide use (considering most pests live in the soil), effectively making our air, water, soil and food cleaner.
- A water efficient method of cultivation
- Optimal use and reuse of nutrients and minerals
- Freedom from soil born diseases / infections / weeds / pests
- Faster growth rate of crop than traditional farming
- Amiable to cultivation in areas with water shortage or lacking soil-cover

AEROPONIC GREEN HOUSE



AEROPONIC SYSTEM

Aeroponics is the process of growing plants in an air or mist environment without the use of soil or an aggregate medium (known as geponics). Aeroponic culture differs from both conventional hydroponics, aquaponics, and in-vitro (plant tissue culture) growing medium hydroponics, which uses a liquid nutrient solution as a growing medium and essential minerals to sustain plant growth ; or aquaponics which uses water and fish waste, aeroponics is conducted without a growing medium. Some advantages to using an aeroponic systems are they typically use little to no growing media. The roots get maximum oxygen, and the plant grow more rapidly as a result. Aeroponic systems also generally use less water then any other type of hydroponic system (especially true aeroponic systems). Also harvesting is usually easier, especially for root crop. One of the primarily benefits of using aeroponics is that the plants receive more oxygen.

The exposed roots quickly absorb oxygen from the air, much faster than roots that are embedded in soil. Aeroponic plants and crops also tend to grow faster than those planted in soil resulting in quicker harvests. One reason for the quicker growth is that more oxygen allows for the faster absorption of essential nutrients. plants and crops, like humans, need certain nutrients to grow, especially nitrogen, phosphorus and potassium



AEROPONIC TECHNOLOGY

We set up Infra Projects for advanced Agricultural Techniques especially Aeroponic Units for Early Gen Potato Seed Production. Hi-Tech Seedling Unit, Poly-Carbonate Structures as Hardening Units, Nursery Units, Mist Chambers, Hi-tech Growing Chambers.



SCREEN HOUSE & SOLAR DRYER



SCREEN HOUSE

The Screen House offer cross ventilation as well as very good growing results and also used for Research Purposes. The structure itself is fabricated using quality modern structural materials like steel, aluminium and nylon / steel mesh.

- Screen Houses Specifications:
- Structure: Complete structure will be made of galvanized steel square / tubular pipes.
- Columns: 60mm Round / Square, 2.0 mm thick
- Trusses, purlins and hockey: 48 mm Round/ Square, 2.0 mm thick
- Member for Truss, purlins & other: 42 mm Round / Square, 2.0 mm thick
- Bressing: 32 mm Round / Square, 2.0 mm thick
- Entrance room & Door: Two entrance room of size 2m x 2m x 2.05m (L x W x H) made of GI pipe having minimum wall thickness 2.0mm or Aluminum profile need to be provided and covered with UV stablized Poly carbonate sheet 6mm. Hinge lockable doors of size 1m width & 2m height made polycarbonate sheets mounted in suitable strong frame.
- Cladding material: The complete structure will be covered with 40mesh SS 3165 L will be used to covber the structure. EPDM rubbere gasket will be used to prevent the insect entry
- Fixing of cladding materials: All end / joins of net house to be fixed with two way aluminum profile with suitable locking arrangement such as zigzag high carbon steel with spring action wire of 2-3 mm diameter.



COLD CHAMBER & COLD ROOM



COLD CHAMBER

"Earth Agro" Make Walk in Chamber/Cold Chamber is design to suit standards for stability in Temperature & Humidity. Application: Walk in Chamber/Cold Chamber are providing the controlled climatic condition with the help of Dry air, refrigeration & Humidity system built-in. This Chambers are basically in application with chemical, Biotechnology. Research & also Tissue Culture R&D test to confirm the successful result of the product under test.

Pre Fabricated Cabinet: Walk in Chambers are built up with highly insulated (60mm/80mm/100mm) 40+2KG/M² with high density foamed pre-engineered prefabricated puff panels can be assembled to meet any test for climatic conditions or size requirement forming into cabin's or room type structure, which can be erected at the side of construction easily. The cabinet will be made with the high quality Pre coated GI sheet 24/26ga galvanized steel in Interior/Exterior finish OR in some case SS-304 Pre polish sheet will be used for the interior of the cold chamber flush type panel with glass window of viewing inside objects with silicon gasket & locking arrangement.

work : For storing the Germplasm, seeds bulbs, rhizome, tubers etc. at low temperature and low humidity.

AIR CIRCULATION : Air circulation will be provided with the help of blower fitted inside the chamber.

AIR CIRCULATION SYSTEM : Package unit with reputed make compressor (Hermetically sealed) with low voltage start with all accessories and fan cooled condenser are fitted to give efficient cooled desired temperature, Air-entire refrigeration system, Condensing UV and corrosion resistance, inner grooved copper tubes, in-built safety and control device, Weather proof canopy, Evaporator unit Stainless steel body and excellent corrosion resistance, inner grooved copper tubes, Circulated Room Air will be purified by washable fine filter.

Touch Screen/Feather Touch Control Panel for Humidity & Temperature:

Humidification: Upto 80% + 4% Accuracy, humidification through air handling unit/Ultra sonic vapour humidifier inside the chamber. This system works with humidity controlled system and cold humid air switched on and off by the controller, it provide superior humidity control, even at below-ambient conditions.

DE-HUMIDIFICATION: Suitable for ambient temperature 15°C-35°C

MICROPROCESSOR TEMPERATURE CONTROLLER PID: Controller: 4 Digit LED display SV & PV, Soft touch panel, Platinum sensor probe Pt-100, Set point lock, Level lock, Sensor failure indication, Display resolution 0.1°C, Accuracy $\pm 0.1^\circ\text{C}$.

MICROPROCESSOR HUMIDITY CONTROLLER: Real Time microprocessor based On/Off control for Humidifying/dehum, Hysteresis | Differential 10%-9%, Delay timer 0-240 sec, Direct/Reverse selectable, Lock functions to prevent miss operating, feather touch operation, Fast response sensor-line resistance < 100, display accuracy-indicating value $\pm 0.2\%$ ± 1 digit

Door locking system High Pressure Indicator UV Lighting Double Glass Window



FIELD OF SPECIALIZATION

1. Polyhouse
2. Hi-Tech polyhouse
3. Poly house with fan and pad system
4. Naturally ventilated polyhouse
5. Green House
6. Hi-tech Green House
7. Poly Tunnel
8. Tissue culture labs
9. Hydroponic system
10. Aeroponic Greenhouse
11. Polysheds for Bio compost
12. Rain out Shelter
13. Cold Chamber
14. Mist Chamber
15. Screen House

Work Experience

1. We have more than 15 years experience in the field of Hi-tech agriculture
2. We have completed more than 500 acres of Polyhouse/Green houses/Shade Net House etc. in Government and Private sector.



POLYSHED ON BIO COMPOST YARDS DISTILLERIES & SUGAR MILLS



Poly Shed Structure of GI pipes covered with Poly-film are erected on Bio Compost Yards in Distilleries where they convert Sugar Cane Press Mud into Bio Compost by using their Spent Wash.

Construction of Polyshed:

Marking of land.

Excavation of Pits.

Civil material prepared for foundation.

Laying of GI Pipes on ground.

Fixing of structure on Ground with Clamps, Nut and Bolts.

Erection of Structure with Hydra.

Joining of Perlines.





PP Baler Twine is a synthetic twine having a smaller diameter used for harvesting in agricultural fields. Agricultural by-products or leftovers, like hay, paddy straw, etc., can be easily stacked and compressed thereby preventing space wastage.

Earth Agro is one of the leading suppliers of baler twines. These twines are tried and tested on all machines like Class, Kartar, Shaktimaan, John Deere, Star, New Holland on rice paddy straw and sugar cane trace etc.

PP BALER TWINE ADVANTAGE:

Reduction of Pollution

To cut down on pollution, Government regulations have banned the burning of farm waste at the time of harvesting. This is increasing the need for converting this waste into bales. The bales can either be round or square in shape. Earth Agro baler twines has breaking strength is 20% more than the required specification which helps the farmer in increasing productivity as the twine never breaks.

SPECIALLY DESIGNED FOR ALL TYPES OF BALER MACHINES AS PER INTERNATIONAL STANDARDS

FEATURES AND BENEFITS

- 20% higher breaking strength
- UV protected: Special UV light inhibitors to withstand intense exposure over long period
- Increases the Knotter Life.
- Extra Pack length less spool changes less wastage and higher efficiency
- Higher running / meter
- Unrivalled Knot Performance: Flexible and strong for 100% reliable, tight Knots on the bales
- Uniform Spool Shape: ensures trouble free running in the baler
- Does not trap dust or absorb moisture
- Made with high tensity polypropylene fibre

SPECIFICATIONS*

Baler twine	Tensile strength	Runnage	Breaking length
12000 Denier	57.5 Kgf	750 Mtr.	43125 Mtr.
24000 Denier	115 Kgf	375 Mtr.	43125 Mtr.
70000 Denier	280 Kgf	128 Mtr.	



PACKING:

- Suitably packed to cater to all kind of balling machines
- Compact packing enables easy handling and storage

+/- 5% Variation in specification



APPLICATIONS:

- Thermal power plants, Bio gas plants
- Sugarcane industry
- Wheat fields, Rice paddy fields
- Paper mills, sugar mills
- Private farmhouses

GREEN HOUSE COVERING MATERIAL



SHADE NET



GREEN



BLACK



WHITE



SILVER



COOL NET

SUN PROTECTION-SHADING NET : Made of very high quality UV stabilized filament.

Available in Green, Green-Black, White, Silver Colours with 35%, 50%, 75% and 90% shading factors.

Available widths 3.0 mtr, 4.20 mtr, 5.20 mtr and 6.20 mtr.



INSECT NET



INSECT PROTECTION NET : Made of very high quality UV stabilized filament.

Available in Crystal White and Milky White Colours.

Available widths 3.0 mtr, 4.20 mtr, 5.20 mtr and 6.20 mtr.

Available mesh sizes 30 mesh, 40 mesh & 50 mesh.



POLY HOUSE COVERING



POLY HOUSE COVERING : (Poly Sheet) made of very high quality UV stabilized material with Anti Fog/Drip, Anti Dust Advantage

Available widths : 4.50, 5.50, 7.0, 9.0 and 11.0 mtr

Available Thickness : 200 micron

Tarpaulin Sheet : Made of very high quality UV stabilized material, Multi Layer Cross laminated.

Available Thickness : 70 to 300 GSM



FROST PROTECTION



FROST PROTECTION SHEET : Made of very high quality UV stabilized material.

Available in Milky White Colour

Available Sizes 1.20 mtr and 2.0 mtr

Available GSM : 17 to 25 GSM



HAIL PROTECTION NET



HAIL PROTECTION NET : Made of very high quality UV stabilized filament material.

Available in Transparent Whitte & Milky white Colour.

Available in Indian and Isreal Pattern.

Available Sizes 3.00 mtr upto 12.0 mtr.

Available GSM : 70 GSM



Our Clients





 425, Golden Square Ambala-Chd Highway, Zirakpur (PB) 140603

 VPO Sarakpur, Tehsil Raipur Rani, Distt Panchkula (HR) 134204

 info@earthagro.com

 www.earthagro.com

 +91 8054019000, 9780559400, 01762-312532, 01734 297412

 Earth Agro

 @earth_agro_india