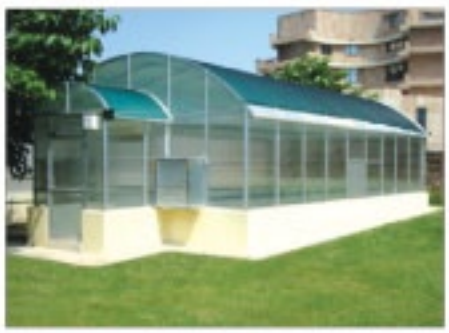
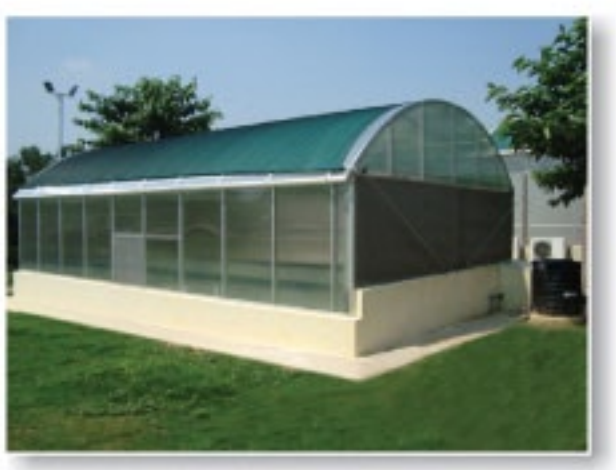
Ozone Biotech Pvt. Ltd.



A Commitment for Better Environment



About us

Ozone Biotech leverages on its technical excellence and a team of highly experienced professionals. We have been successfully undertaking turnkey horticultural projects of designing and establishing high-tech Greenhouses, Polyhouses, Shadehouses, Mist Chambers, Hardening Chambers, Walk-in Coolers, Rainout Shelters, Cold Rooms, Plant Health Clinics, Leaf Analysis Labs, Model Floriculture Centers, Tissue Culture Labs, and allied biotech systems and instruments.

Owing to efficient performance, easy operation and low maintenance, our products are widely appreciated. We also provide efficient and prompt maintenance services.

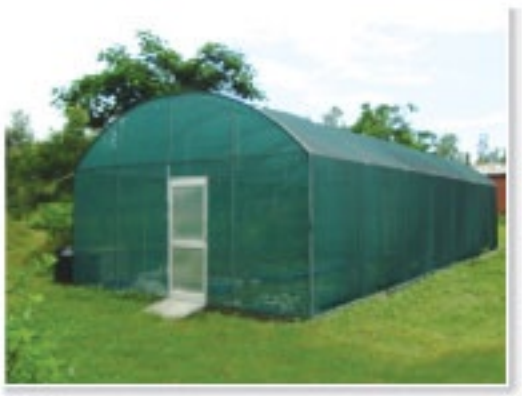
In order to meet the increasing demands of the market, we have developed a state-of-the-art production infrastructure. It is segregated into various units and is well equipped with latest machines and technologies in order to carry out the production procedure with an ease.

Strengths

- Professionally managed company
- Use of best technology and products globally available
- Prompt and efficient after sales services
- Quality is given the utmost priority

Our Mission

We are committed to deliver professional services at all times. Our on-site professionals have accumulated vast knowledge of customers' environments and requirements. We offer constant and easy accessibility and end-to-end solutions as we accompany your projects from inception to fruitful finish and beyond.



Polyhouses

- Controlled Polyhouse
- Naturally Ventilated Polyhouse (Sawtooth Type)
- Poly Tunnel
- Solar Drier

Polyhouses are designed to meet the growing needs of farming communities around the world. Crops grown in polyhouses are protected from intense heat, bright sunlight, strong winds, hailstroms and cold waves to produce higher quality crops thus enhance the return.

Following components are used while erecting the system-

- Structure: GI Round / Square Pipe / GI Channel
- Covering: Micron Polyfilm / Regidex Film
- Shading: Aluminet / HDPE Agronet (75%/50%/35%)
- Cooling: Evaporative Cooling System / Crossway Fogger / Air Circulation Fan
- Humidity: Micro Fogging System / Micro Misting System
- Controller / Automation: Digital controller for temperature and humidity, Side / Top Ventilation, Internal Shading and Irrigation System.
- Irrigation: Drip / Micro sprinkler System
- Ventilation: Motorised Automatic / Gear Operated Manual Opening System
- Fixing: Aluminium / GI Box Type Profile with Zig-zag Spring GI Wire

Shadehouses

Shade houses constitute an inexpensive alternative to regular greenhouses. A shadehouse offers solid ventilation and enables increased yields for a wide range of crops, such as tomatoes, capsicum, cucumbers, variety of flowers and ornamentals.

Greenhouses

- Transgenic Greenhouse
- Polycarbonate Greenhouse
- Hardening Chamber
- Containment Facility
- Glasshouse
- Mist Chamber

These are state-of-the-art facilities having ideal combination of temperature, humidity and light intensity to grow any type of plant inside the facility in any season throughout the year.

We design and fabricate the facility as per the climatic conditions like wind load, rain, snow load, altitude, latitude or as per client's requirement.

We use following main components while designing and erecting the facility -

- Structure: GI Square Pipe / Aluminium Tube
- Covering: Multiwall Polycarbonate Sheet / Glass / FRP Sheet
- Shading: Aluminet / HDPE Agronet
- Cooling: Evaporative Cooling System / Air Conditioner Cooling System / Air Circulating Fan
- Heating: Forced Heat Convection System
- Humidity: Micro Fogging System / Micro Misting System
- Lighting: PAR Lamps / Flourscent Lamps / High Flux Lamp
- Controller: Microprocessor Based System for temperature, humidity & light
- Remote Access: Computerised Data Logging System
- Irrigation: Drip / Boomer / Automatic Fertigation System
- Ventilation: Motorised Automatic System / Manual System
- Benches: Fixed / Top Movable

Greenhouse Accessories

SLOW AXIAL FLOW FAN

COOLING PAD

AIR CIRCULATING FAN

AIR CURTAIN

GI CLAMPS

ALUMINIUM PROFILE & SPRING

PVC GRIPPER

FOUR WAY CROSS FOGGER

PLASTIC POTS

ROOT TRAINER

Other Products

- Walk-in Cold Chamber / Seed Storage Chamber
- Plant Growth Chamber / Environment Controlled Chamber
- Rainout Shelter (Manual / Sensor Controlled)
- Modular Tissue Culture Lab / Room Conversion
- Model Floriculture Centre / Disease Forecasting Lab
- CO_2 Open Top Chamber
- FACE / FATE Facility
- Ozone Generation System
- Growing Media viz., Soilrite / Perlite / Cocopeat
- Benches - Fixed / Movable / 2-tier
- Hot Air Oven / BOD Incubator
- Automatic Fertigation System
- Polyfilms
- Shade Net / Insect Mesh

Instruments

ENVIRONMENTAL CONTROL PANEL
OB - 5001

Composite control panel for temperature, humidity & light. All controllers real time microprocessor based & user programmable, humidity range 5% - 99%. Display accuracy-indicating value ±0.2%. Temp. range 0° to 100°C, accuracy 0.1°C. 20 prog. photoperiodic cycle with mains ON/OFF switch. Light indicator for main lights, cooling, humidity, heating, I/P-200-240 VAC, 50 Hz, Single phase.

TISSUE CULTURE RACK
OB - 5071

4 working shelves, height 5'8", width 4'2", length 18", shelves 5, lighting facility in 4 shelves, shelf to shelf distance 16", platform surface 3mm thick Hylem, four 40-watt FL with individual switching arrangement for two tube lights, total 16 electronic simulator, frame with MS square pipe 1"x1" (CRC) with anti-corrosive, humidity resistant powder coating finish, castor, connecting provision with timer.

DE-HUMIDIFIER
OB - 5061

The multi-directional front outlet provides a wide range of air circulation, which dries more space desired. Movable handle and easy-glide casters, compact design with a handle, easy to lift casters movement. Air purifying filter, microcomputer humidity-level automatic control, capacity - 10-14 litres per day at 30°C, 80% R.H., Fan-Only mode provided, auto pause when bucket is full.

DIGITAL TEMPERATURE CONTROLLER
OB - 5003

Digital display based Controller, Temperature Range 0-60 °C, accuracy ±2°C, 3 ½ digit LED displays, soft touch operation with Pt-100 sensor, Display resolution 0.1. Automatic hysteresis control and inbuilt delay, 4.4 KVA load of heating & cooling each can be connected to power O/P, input- 200-240 VAC, 50 Hz. Single phase.

MICROCLIMATIC TEMPERATURE CONTROLLER
OB - 5005

Real time microprocessor-based, user programmable, PID controller, 4 digit LED display for displaying measured values & settings. Platinum sensor probe Pt-100, set point lock, level lock, sensor failure indication, display resolution 0.1, accuracy 0.1°C, auto hysteresis control, temp ranges 0° to 100°C, 2 no. of AC's 2 TR & 2 heater of 2.5 KW load, can be directly connected to the powered out put.

PHOTOPERIODIC TIMER
OB - 5021

Real time microprocessor-based, Accuracy ±2.5sec/day@20°C, Week Programme, 20 memory locations adjustable to the minutes/hrs, 90 min. power backup, random switching can be activated by pressing any key, Summer/Winter time changeover, programme saving by EEPROM.

DIGITAL HUMIDITY CONTROLLER
OB - 5012

Digital, humidity range 20% - 99%, dual display (for set point & current humidity), accuracy ± 4RH%., control action time proportionating (Proportionate band 3% of full scale), On/Off control hysteresis (optional), control output available relay control, AC 250V, 10Amp (resistive load) Current: 4-200mA DC (load resistance less than 800 ohms, humidity setting by front key pad, hysteresis adjustable + 9.9RH%TO -9.9RH%.

CYCLIC TIMER
OB - 5041

0-999 hrs/min/sec ON, 0-999 hrs/min/sec OFF, automatic cycling, quartz accuracy, power output can directly drive misting/fogging unit load up to 4.4 KVA, input 200 V to 240 VAC, phase-single, 50 Hz, ambient 4°C to 50°C, RH up to 90%.

SEQUENTIAL TIMER
OB - 5042

Minimum ON/OFF time 15 / 30 minutes with NICAD battery auto recharging facility, powered output can drive two 1.5 ton air conditioners alternately, Auto/Manual selector switch, Thermal safety 16 Amp inbuilt, Accuracy ±8 sec/day. Input 200 V to 240 VAC, phase-single, 50 Hz, ambient 4°C to 50°C, RH up to 90%.

HEATING UNIT
OB - 5201

In-built auto thermal cut-off device, biotech grade 2.5 KW. It has ISI standard make heating element and 900 rpm speed fan that prevents SD, injury to plants as caused by heaters of other make due to improper combustion of fuel gases - a common phenomenon seen in green house, powder coated aluminium finish box.

LAMINAR AIR FLOW
OB - 5092

HEPA filter of 0.3m of an efficiency of 99.99% down to 0.3m made of glass fibre & aluminum separator back & front, Pre-filter, Statically balanced motor blower assembly, Velocity 9020 FPM (0.40 – 0.70 mps), Noise level < 40dB, Manometer, U.V. Lights, Acrylic Sheet 5mm thick, Gas Tap, Electrical Socket Arrangement, Diffused FL, Nylon Castors, SS working bench.

COLD HUMIDIFIER
OB - 5052

Ultra fine cold water vapours, SS body, with heavy duty motor, Float valve for regulation of water, Castor for easy movement, Input- 200-240 VAC, 50 Hz, Single phase, Ambient 5-50°C, RH up to 90%.

Planting Material

ANTHURIUM

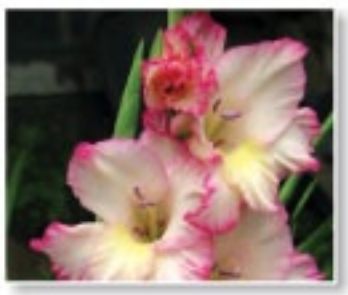


ORCHID

GERBERA



GLADIOLUS


LILIUM



ROSE

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