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Since 1978

Turnkey Solutions for
Tailor made

RESEARCH GREENHOUSE

PRECISION-ENGINEERED ENVIRONMENTS
FOR ADVANCED PLANT RESEARCH





Research Oriented



Innovation Redefined



Engineering Excellence



Sustainable AgriSolutions

DESIGNED AROUND
YOUR RESEARCH

Our Research Greenhouses are designed to be performance-oriented and user-friendly, specifically for research applications such as detailed studies of transgenic research, plant diseases, plant life cycles, insect pests, and plant adaptation to drought, cold temperatures, and other abiotic stresses. They also support plant hardening and year-round research on various crops across different climatic regions, including Tropical, Sub-tropical, Temperate, and Desert conditions.

KEY RESEARCH APPLICATIONS



TRANSGENIC RESEARCH



ABIOTIC STRESS STUDIES



PLANT DISEASE STUDIES



INSECT PEST MANAGEMENT



LIFE CYCLE STUDIES



YEAR-ROUND RESEARCH ON VARIOUS CROPS



HARDENING OF PLANTS



ENGINEERED FOR CONTROLLED RESEARCH

Our Greenhouse Technology – Customized to Your Research Requirements



STRUCTURE

High-tensile, hot-dip galvanized steel structure with galvanized nuts and bolts, designed to meet global standards and user requirements. Wind load capacity exceeding 110 km/h.



EXTERNAL / INTERNAL SCREENS

External/Internal shading screens to reflect heat and block excess sunlight, with automatic opening and closing mechanisms using reliable motors based on sensor operation.



ARTIFICIAL LIGHTING

Customized lighting spectra and intensities using LED/HPS lights according to crop and experimental requirements.



CLADDING

Plastic or glass cladding as per user requirements, selected to provide optimal light transmission, thermal insulation, and protection against fungal growth and other environmental factors.



FERTIGATION & IRRIGATION

Precision fertigation and automated irrigation systems suitable for soil-based, hydroponic, and other soilless cultivation systems.



TOP & SIDE VENTILATION SYSTEM

Single-vent/butterfly openings with automatic opening and closing based on settings in the Greenhouse Automatic Control Panel. Customized ventilation for roof and side openings.



BENCHING & GROWING SYSTEMS

Fixed or movable benches, hydroponic and aeroponic systems, and other customized growing systems for research trials.



COOLING & HUMIDIFICATION

Advanced cooling and humidification systems to maintain precise temperature and humidity levels according to crop and experimental requirements.



BUFFER ROOM

Buffer zones are designed to promote efficient pest management and prevent contamination using air curtains, hand-disinfection and shoe-disinfection units.



FROM CONCEPT TO COMMISSIONING

Since 1978

Turnkey Solutions for Research Greenhouses

AUTOMATION & ENVIRONMENTAL CONTROL

- Temperature Control
- Humidity Control
- Light Intensity & Photoperiod (O)*
- Carbon Dioxide Control (O)*
- Ventilation Control
- Smart Irrigation & Fertigation System (O)*
- Intelligent Climate Management HMI System



- Intelligent climate management HMI system
- Control of temperature, humidity, light(O)*, CO_2 (O)* and ventilation
- Smart irrigation and fertigation system (O)*
- Compatibility to integrate phenotyping, RGA, and other research equipment
- Custom-designed for high precision and repeatability

(O)* - Optional

OUR TURNKEY PROCESS – SAVEER ONE STOP SOLUTION

- CONCEPTUALIZE
- PLANNING
- DESIGN
- MANUFACTURING & ENGINEERING INTEGRATION
- INSTALLATION
- COMMISSIONING
- AFTER-SALES SUPPORT

Saveer Biotech Limited

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