Solanaceae is one of the most economically important plant families in the world because it contains tomato, potato, eggplant, peppers, and tobacco and produces a diversity of species. It is an important source of food, spice and medicine and form the most important component of a balanced diet and play an important role in nutritional security and economic viability. Eating these vegetables provides nutrients vital for health and maintenance of the body—people who eat more vegetables and fruits as part of an overall healthy diet are likely to have a reduced risk of some chronic diseases.

In spite of good production there is still vast scope for increasing production through adopting new innovative techniques and developing new varieties for better yield. Solanaceae crop cultivation worldwide faces certain constraints such as heavy infestation of insects, weeds and diseases resulting in major setbacks in the yields, quality and sustainability of the farming operations. Henceforth, there is a need to increase the sustainable production of new varieties.

In order to improve existing varieties and standardise production techniques, scientists research on various aspects of solanaceae crops to enhance the plants gene pool, develop new tolerant plant varieties and varieties that have high quality and yield. Sometimes research gets interrupted by environmental disruptions, henceforth, it’s important to provide an uninterrupted and controlled environment. For such continuous studies research greenhouses are pre requisite to improve crop yield and the management systems.

Therefore, we have developed a research greenhouse SBG- T 708 especially for solanaceous vegetable crops that can easily be used for the solanaceous crop research in different region of the world. It compliance with USA & EU standards. In this research greenhouse you can grow about three solanaceous vegetable crops per year for different experiments for breeding and other research programme. This specially designed greenhouse provides the desired conditions for the growth and development of the solanaceous crops in controlled greenhouse environment and store the data efficiently with password security. The greenhouse growing conditions—including temperature, moisture levels and lights are controlled by Intelligent Climate Control System which can be accessed remotely for monitoring the conditions and even changing them, if desired.
Seed to Seed

SBG - T 708

Solanaceous Crops Breeding Greenhouse
Provides Facilities to Study the "Complete Life Cycle of Solanaceous crops"

AUTOMATIC CLIMATE CONTROL SYSTEM

- Temperature
- Humidity
- Light
- Water
- Air Circulation
- Fertigation

Special Emphasis on

- Intelligent Climate Control by Dedicated LHT Software for different stages of the crop.
- Remote access to monitor and change the set parameters
- Data Retrieval, Storage & Security with Secured Password
- Different Levels of Alarm System on Mobile Phone
VEGETABLES you can grown round the year

- Brinjal
- Tomato
- Chillies
- Sweet Pepper (Capsicum)
Facilitates Solanaceous Crop Research

SBG - T 708

- Development, Maintenance and Evaluation of new hybrid & varieties for quality, earliness and yield of vegetables
- Breeding of vegetables varieties for premium traits
- Fresh crosses to generate breeding materials
- Breeding for high yield, early maturity, days to maturity etc.
- Isolation and maintenance of parental lines
- Breeding for biotic and abiotic stress.

- Evaluation and maintenance of germplasm lines of different vegetable crops
- Development and maintenance of transgenic lines
- Production of nucleus and breeder seeds of improved released varieties and parental lines of hybrid of different vegetable crops
- Development of high yielding varieties of vegetables with traits suitable for dehydration and export purpose

- Research on effect of different abiotic and biotic factors
- Drought Studies- Identification and evaluation of tolerant varieties against drought
- Studies on soil salinity
- Studies on heat tolerance
- Studies of Genotype X Environment interaction

- Effect of spacing, plant population
- Experiments on harvesting intervals, processing qualities, storage, postharvest processing
- Effect of planting times, fertilizer rates and irrigation practices (water amounts) on vegetable productivity

- Pest and disease resistant/tolerant varieties/hybrids and pesticide tolerance
SBG - T 708 with Advanced FL Technology is specially designed for Solanaceous vegetable research. After rigorous experimentation and improvisation we have developed this world class SBG - T 708 at par with advance research greenhouses in USA and Europe. It is ideal for round the year crop growth in the different climatic regions. It is designed after taking into consideration all the parameters and by applying core scientific capabilities and technical insights to fulfil the requirements of research work.

SBG - T 708 greenhouse is designed in such a way as to allow crops growth for research in controlled conditions successfully and also for planning experiments on different parameters for various research studies.

The scientists can research in this greenhouse that how planting times, fertilizer regimes and water amounts affect vegetable productivity. The varieties may be tested for plant population, spacing, fertilizer rates, days to maturity, harvesting intervals, pesticide tolerance, processing qualities, storage, heat tolerance, cold tolerance, irrigation practices, post harvest processing research, pest and disease resistance/tolerance, vegetable seed production and new varieties breeding for higher yields etc.

- Remote access to the plant growth and development with help of intelligent LHT Software through internet facilities.
- The greenhouse can be accessed for data with the help of a computerised system, smart phones, laptop and iPad, etc. without actually visiting the greenhouse.
- Different parameters can be monitored and even changed by the remote access.
- Online support from our online technical expert team available.
- If needed, the team can access the researcher's computer through screen sharing facility to provide solution to problems encountered.
SBG - T 708

With Advanced FL Technology

Temperature

Desired temperature in the greenhouse is maintained by using e-vaporative cooling system and special heat convector system "Gerat System". The cooling is maintained by water pad system with special axial flow fans which brings down outside temperature up to 8 - 10°C ± 2°C in greenhouse at outside RH of 60% ± 8 per cent. The temperature is increased by specially tested heating system "Gerat System" which maintains uniform temperature across the greenhouse. The desired temperature is maintained for the day and night by intelligent climate control system which can also be accessed remotely to monitor the temperature inside the greenhouse.

Humidity

Our ultra-thin system achieves (by using clean water) upto 92% ± 4% humidity. With hysteresis facility, it provides perfect RH inside SBG - T 708. The humidity required during the entire life cycle of Solanaceous vegetable crop for healthy plant growth can be maintained and changed according to the experiment requirement. Humidity can be controlled automatically by control panel provided with SBG - T 708 Advance Technology.

Air Circulation

The ventilation system inside this greenhouse is 100% computerized and operated by control panel.
SBG - T 708 with Advanced FL Technology is equipped with advanced bio canopy system with appropriate spectrum—which provides light closer to Sunlight’s spectrum. An equal amount of light can be provided to the whole canopy of plants at any level. The light supply according to the canopy and age of plants can also be calculated and the spectrum of light can be maintained and changed according to the canopy of the crop for any research requirement. The duration of the days i.e. long or short can be controlled and different DLI i.e. differential light integrals can be achieved for the experimental requirements.

Appropriate light spectrum can be provided at different stages for efficient growth and development of the plant.
IRRI-N-FIT FERTIGATION SYSTEM

* Irri-N-Fit Fertigation unit is for precise irrigation and fertigation of solanaceous crop inside the research greenhouse. Some of its features are:

* **Flexibility and high capacity:** It can handle overhead irrigation, drip systems and ebb and food equally well.

* **Efficient, safe and reliable:** Fertilizers are mixed and monitored by computerized system using dual EC, dual pH sensor and Water temperature and water quantity sensors for safe and reliable operation.

* **Accurate and precision dosing:** Accurate dosing by 5 pulse dosing valves.

* **Acid/Lye Dosing:** Ability to dose acid or Lye for an optimal pH value with a dedicated dosing channel.

* **High quality double EC and pH sensor:** Dual sensors for measure and solution. check EC and pH for maximal accuracy and security.

* **8 recipes dosing:** 8 fertilizer recipes are possible for different stages of plant growth where desired EC and pH can be regulated as per requirement.

* **Simple, user friendly interface:** Touch screen is for all monitoring and control settings.

Bench System

Popular polymer bench to keep plant pot for irrigation-to irrigate pots from bottom or by drip to irrigate from top. These are long lasting and rust free with movable tops. Benching frame material is made up of anodized aluminium section for durability.

The system provides complete agronomic solution.
OUR COMMITMENT- CUSTOMER SATISFACTION
We are driven to support you from concept to completion. We have always exceeded to our customer’s expectation which includes fulfilment of customer’s potential need in functions/performance/design/services etc. Customer satisfaction is of utmost importance for us to maintain reliability among users. This commitment is based on the belief that your decision to buy from us is not only for the quality of the product, but also for the passion and integrity you have for the research work.

We invite you to visit us and reconnoitre such greenhouse in our Centre of Excellence in Greater Noida. Here you can experience the greenhouse first hand, our project leader will practically demonstrate you how various systems work in the greenhouse, and at our centre will leave you in no doubt that we really strive hard in our In house R&D Division to provide state of the art products.

SAVEER’S ASSURANCE FOR CUSTOMERS
- Quality Products
- Timely completion
- Technical Support
- After Sales service 24X7x365

QUALITY SERVICE

Online support from our Technical Support Team is available over Phone/ Skype/ Line/WhatsApp for any support for the system after installation. Saveer intelligent software is designed in such a manner that it is possible to troubleshoot most of the problems online. Most of the parts are plug and play; can be replaced easily under guidance of our technical expert. So you can get back to your work quickly.

Training is also provided to the customer as and when needed; you can visit us for training purpose for a smooth operation of the system. A customer relation manager will be assigned with the project so feel free to ask for any help any time. This is service at its best.

Visit us and see why our customers rate us as one of the best greenhouse manufacturers.
• Tomato, Capsicum, Brinjal, Chillies and Potato

• Wherever you are in the world, we are sure you can grow crop successfully in this facility.

• It is a global standard model with FL technology and can be raised in the field or on the roof.

• Project completion time line - 26 days including civil foundation.

ACCREDIATIONS :-

• DSIR - SIRO Approved
• ISO 9001:2008
• ISO 14001:2004
• OHSAS 18001:2007
• CRISIL RATING - MSE 2
• D&B D-U-N-S No.: 91-637-7539