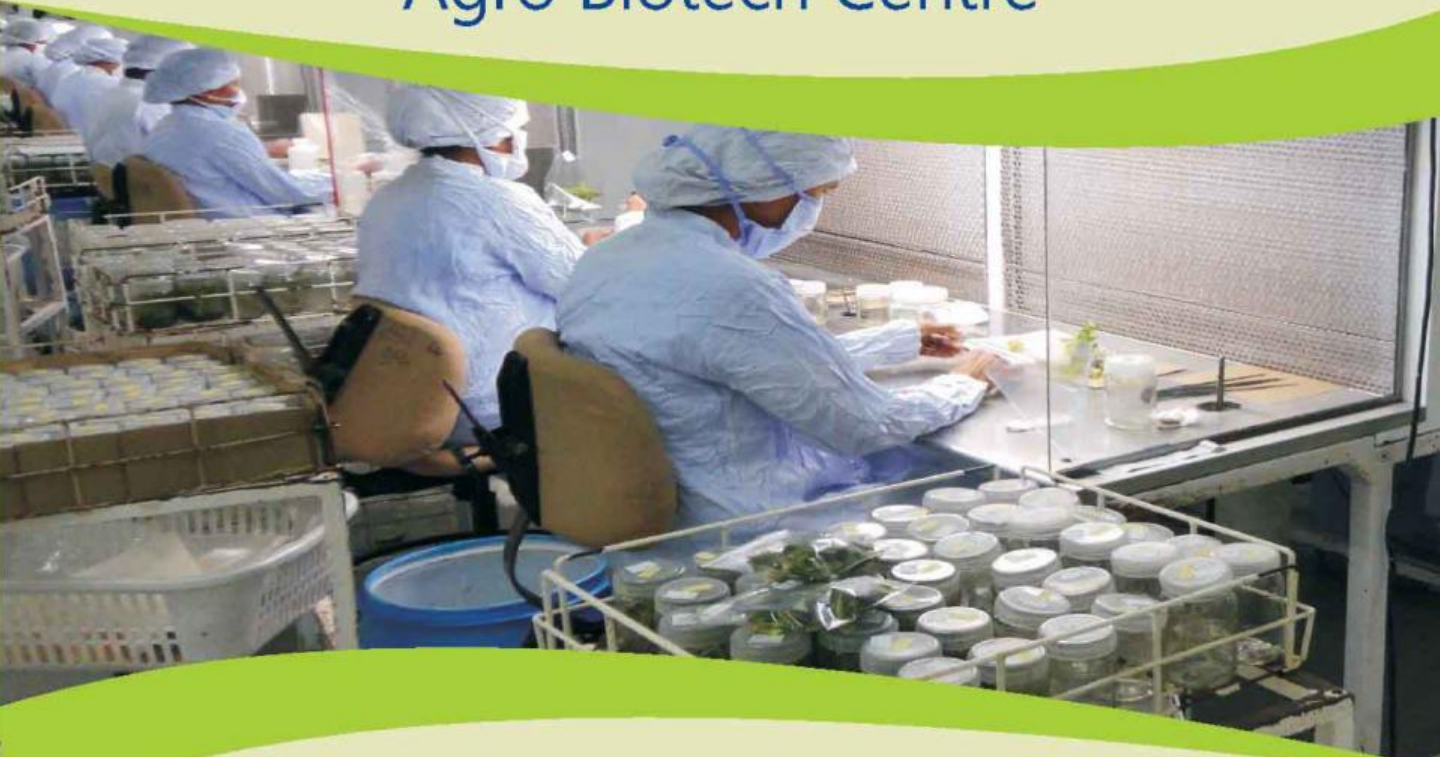




**SPIC**

Agro Biotech Centre



**TISSUE CULTURE**  
P R O D U C T S

## **Introduction:**

*SPIC - Agro Biotech Centre (SPIC - ABC) was established at Chennai with a Plant Tissue Culture Laboratory during 1990. Subsequently the commercial laboratory was established at Coimbatore, Tamil Nadu, India in the year 1993. The commercial Plant Tissue Culture facility is capable of producing 7.00 million plants per year.*

## **Plant Tissue Culture Production Facility:**

*The plant tissue culture facility is located at Coimbatore with a campus area of 24.00 acres with laboratory production facility to produce 7.00 million plants per year. The center has developed protocols for the multiplication of more than 200 varieties across 32 crops. All products are screened for virus and other infectious microbes as part of the quality assurance protocols.*

*SPIC - ABC today produces and supplies high-yielding, disease free young plants of Banana, Gerbera and Ornamentals on a regular basis. The major varieties of Banana that we produce for commercial cultivation are Grand Naine (G 9), Red Banana, Nendran etc. Among Gerbera there are more than 20 varieties covering all major colours like Red, Pink, Purple, Orange, Yellow, Cream and White.*

*SPIC - ABC is the exclusive representative for production and marketing of Gerbera Plants for M/s. Schreurs, The Netherlands (<http://www.schreurs.nl>); a leading Breeder in Gerbera & Rose.*

## **Quality Assurance:**

The stringent and foolproof protocols adopted in the laboratory and green houses, has resulted in obtaining Accreditation by the Department of Bio Technology, (DBT), Government of India, New Delhi.

We undertake various quality assurance programs to ensure the plants that we produce and supply are true to type, free from plant pathogenic virus etc to ensure consistent high levels of yield.

### **a. Genetic Fidelity Test:**

To ensure our plants are true to type, we undertake Genetic Fidelity test for our banana plants in National Research Center for Bananas (NRCB), Trichy.

### **b. Screening for Virus.**

Our banana plants are subjected to Virus Screening at various stages of production. In addition to our in house screening of Virus we are also availing the services of National Research Centre for Banana (NRCB), Trichy to screen our banana plants and cultures for major Plant Pathogenic virus affecting Bananas namely:

- BBTV (Banana Bunchy Top Virus)
- BBrMV (Bract Mosaic Virus)
- BSV (Banana Streak Virus)
- CMV (Cucumber Mosaic Virus)

Similarly, our Gerbera plants are also subjected for screening of pathogenic Virus at various stages of production. For validating our findings, we avail the services of the University of Agricultural Sciences (UAS), Bangalore.

As a result, our products are of superior quality and free from virus.

## OUR STRENGTHS

### a. Infrastructure facility.

The 24 Acre campus houses production laboratory, culture transfer area, media preparation area, bottle wash area, stores, office building covering 5,200 Sq mt; Bare root plants from lab are hardened in Green House (700 sq mt) and shade house (28,000 sq mt) to produce healthy ready to plant materials. The production is supported by power back up, Air conditioning unit of 200 TR, Boiler of 1,600 Kg for steam generation etc. The production laboratory has Laminar Air Flow Chambers (LAF) to seat 54 operators to work simultaneously. The campus houses a 4.00 Acre model farm for Banana and 250 sq mt of Polyhouse for Gerbera.



### b. Technology:

With the findings of in-house Research and Development and assimilated knowledge over a period of more than 2 decades in Plant Tissue Culture, the laboratory is capable of producing tissue culture plants for 32 crops at a very reasonable cost within minimum possible time. The technological advancement and strict production protocols are appreciated by the Department of Bio Technology, Government of India.

### c. Skilled Manpower:

An ideal mix of young graduates and experienced personnel in Plant Tissue Culture Technology enables faster absorption of latest advancements in Plant Tissue Culture Technology. The higher level of production with high quality standards is made possible due to infusion of science and experiences in the production process.

# PRODUCTS

We offer the following products of Tissue Cultured Plants at various stages of development to suit individual clients.

**a. Multi cultures:** These are suitable for organizations having plant tissue culture laboratories wherein they can further multiply to meet their production requirements, harden and market in their brand. The main advantage is that initiation process can be totally avoided, saving valuable time and resources.



**b. Ex-Agar plants / Bare root plants:** These are suitable for organizations having proper hardening facilities to harden the ex-agar plants and market the plants. If required we will also assist the client organization to adopt most efficient and economical way of hardening of ex agar plants.



**c. Net Pot plants:** These are preferred by large growers or grower group or small organizations where in net pot plants are further hardened in shade nets or partial shade. The hardened plants will be used for own consumption or for marketing to other growers.



*Net Pot Plants*



*Hardened Plants*

**d. Hardened plants:** These are preferred by growers and suitable for immediate planting in the main field. In this case, the plants that we supply are ready to plant as they are of suitable growth stage.

The plant varieties we produce and supply are:

#### **Tissue Culture Banana**

- Grand Naine
- Red
- Nendran
- Quintal Nendran
- Mindoli Nendran
- Poovan
- Kadhali / Elaichi

#### **Tissue Culture Gerbera colors**

- Red
- Pink
- Purple
- Orange
- Yellow
- Cream
- White

### **Research and Development**

Research and Development (R&D) refers to two intertwined processes of research (to identify new knowledge and ideas) and development (turning the ideas into tangible products or processes). We undertake R&D in order to develop new procedures, products, to improve the economics of production and value addition to our products. SPIC - Agro Biotech Centre has an in-house Research and Development department equipped with the state of art facility to meet international standards. This division plays a pivotal role in setting the production protocols, sterility standards, improvement in technology, product standards and laying down standard operating procedures to ensure highest quality of the products.

### **Research Services**

Being a recognized R&D unit with a strong technical team lead by experienced researchers, we can offer starter cultures, technology transfer of our existing product lines and contract research services to other Tissue Culture Production Units (TCPU's) and other commercial organizations.

We also offer services to develop protocols for Micro-propagation of economically important crops. We are currently offering proven micro propagation protocols up to ex-agar or ready-to-plant stage for any variety.

The typical steps followed are:

- Isolation of high yielding varieties.
- Rapid multiplication of selected plants through tissue culture technology.
- Field trials of the multiplied varieties.
- Supply the plant to farmers for large-scale cultivation.

### **Customer Services**

SPIC -ABC provides growers with the best agronomical practices to realize highest returns from Banana Farming and Gerbera Farming. In addition to field supports, we also offer market intelligence to decide on the markets for sale of products.



# SPIC

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