

AGbioleck



Tissue cultured
Paulownia
(China Teak)



AGbioteck

AG Bioteck Laboratories is the realization of the dream of technocrat entrepreneurs to build a biotechnology company by leveraging their scientific temper and environmental consciousness to deliver technologically proven and qualitatively superior products and services in the areas of Plant Tissue Culture and Organic Farming.

profile in a nutshell

- Established in 1992 in as a Private Limited Company which turned Public in 1995
- Located in Hyderabad, India which is fast emerging as a biotechnology hub for R&D and production
- Rich and diversified experience over the last 27 years in producing tissue culture plants and organic farming
- Extensive and sophisticated infrastructure facilities including modern Plant Biotechnology Units, Green Houses, Satellite Hardening Centers, Bio-manure / Bio-fertilizers / Bio-control agents Production Unit, Botanicals extraction unit,, and a state-of-the-art R&D and Training Centre

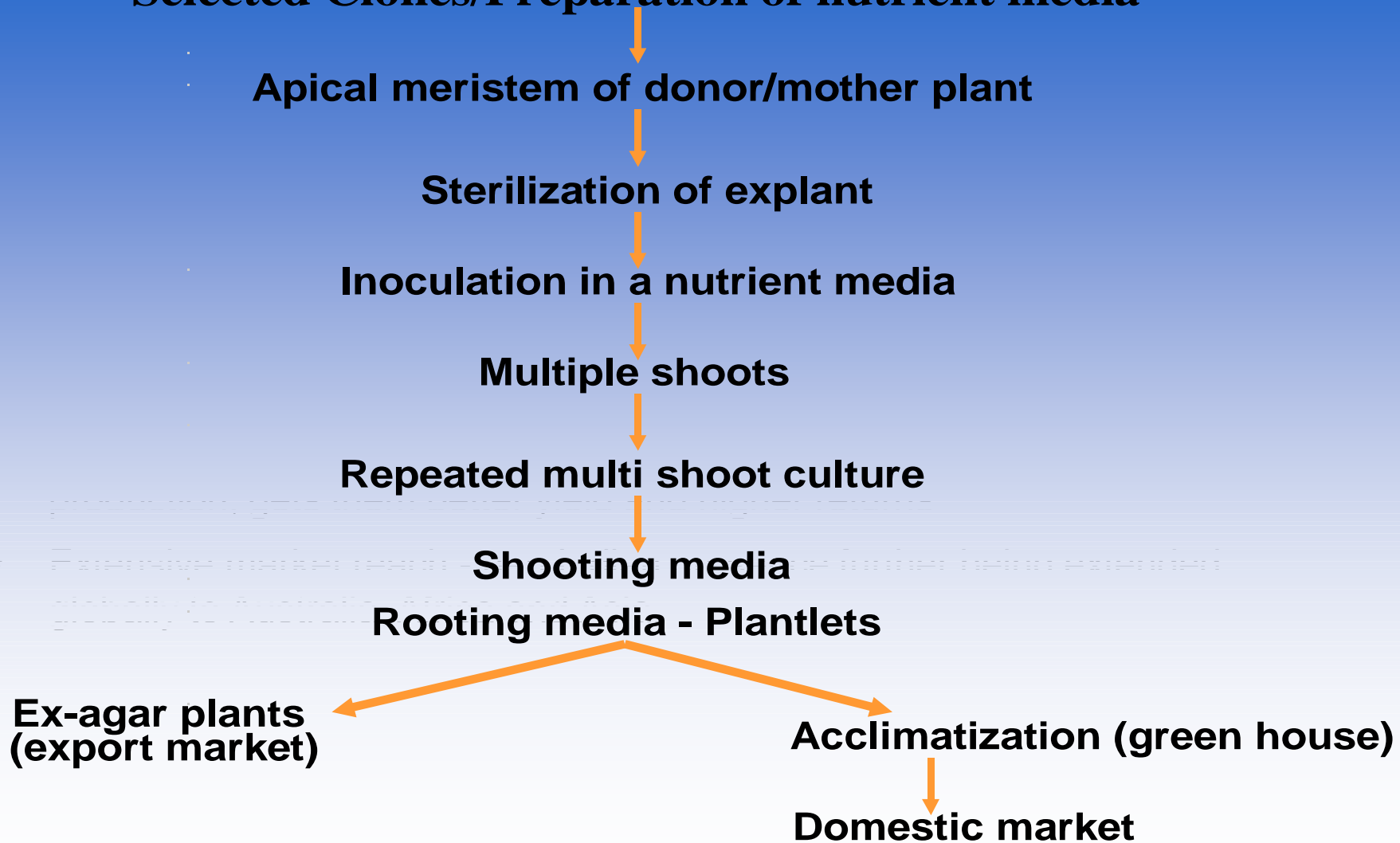
ag biotek infrastructure

- **Modern Plant Biotechnology Unit:** A 30,000 Sft CL-10,000 sterile clean area, designed to produce 4.0 million plants of world-class quality, in a year.
- **Satellite Hardening Centers** A total covered area of over 200,000 square feet across major agro-climatic zones of India, for acclimatization of tissue culture plants.



FLOW CHART – PLANT TISSUE CULTURE

Selected Clones/Preparation of nutrient media



core competence

Tissue Culture – Forestry species

Timber yielding trees:

- AG Bioteck stands unique in the country, which identifies, develops protocols and produces tissue culture tropical hard wood species, including ***Paulownia***
- India's first Paulownia tissue culture plants were raised in Andhra Pradesh and AG Bioteck was part of it.



In vitro propagation/tissue culture

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Paulownia- Laboratory to Green House for hardening

Acclimatization process



Mother plant selection

Tissue culture Process

a. Selection of Mother plants/clones

AG Bioteck is successful in identifying the “Plus Trees” with desirable characters in ***Paulownia*** and developed the tissue culture techniques for mass multiplication



advantage – ag biotech tissue culture Teak



Tissue culture plants developed from single stem tissues, isolated from known, established Plus Trees, with all desirable characters. Hence yield is at expected levels, thinning is not required.

Tissue cultured Paulownia field plantation



Tissue cultured Paulownia field plantation

conti.



AG Biotech Tissue culture Paulownia plants growing in the farmers field (6 months to 1 year old)



industry – academia interactive programs

- Evolved into a knowledge hub and an R&D Centre for Scientists, Research scholars, resource personnel from NGOs and Financial Institutions
- Provides research facilities for students of Biotechnology students of many Universities, like Indian Institute of Technology Kharagpur, Biotech Consortium of India Limited, New Delhi, ANGR Agricultural University, , Hyderabad, to name a few.
- Regularly conducts training programs in Biotechnology for International participants on behalf of AOTS, a Japan Government sponsored organization.



Thank you