



GREEN BIOTECH TISSUE CULTURE LAB

Create a Bigger Horizon in Agriculture

🎯 To supply quality, germ-free healthy plantlets of flowers and other horticultural crops through research and development.

🔧 Major Activities

- Produce of Gerbera, Carnation, Eustoma, Potato & Banana Plantlets.
- Potato Minituber, Breeder, Foundation and Certified Seed Production and marketing.
- Vegetable seed & seedling Production and marketing.

🤝 Collaboration Partners



Overview

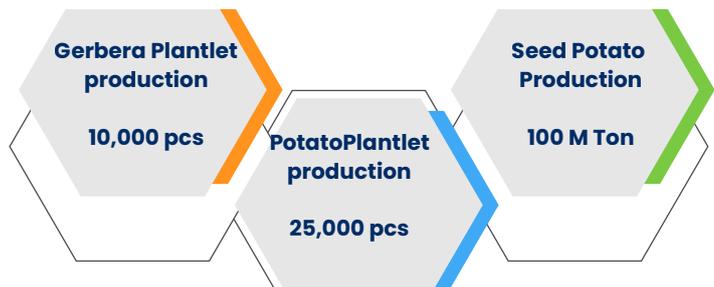
Green Biotech Tissue Culture Bangladesh, established by RRF in Jashore under the Agricultural Value Chain Project's Floriculture sub-project on September 12, 2017, produces high-quality, germ-free plantlets for local farmers. Initially supported by PKSf, IFAD, and RRF until June 2020, RRF has been running the lab independently since July 2020 using its own funds to ensure continued support for affordable, healthy plantlets, promoting sustainable agriculture, farmer empowerment, and growth in Bangladesh's floriculture sector.

🌱 Specific Objectives

Its aim is to produce plantlets of flowers like Gerbera, Carnation, Eustoma, Liliium and Horticultural crops like Potato, Banana etc. within the country and make availability of plantlets to the farmers at low price.

🌱 Achievements & Outputs

By establishing 01 Scientific Hardening Centre we could reduce plantlet hardening mortality than previous condition. Other Achivements of these year :



🌍 Environmental & Social Impact

Environmental Safeguards / Climate Resilience:

- Promotes sustainable agriculture by producing disease-free, high-quality plants in controlled environments, reducing pesticide use.
- Supports climate resilience through climate-tolerant crops, rapid reforestation, and conservation of endangered species.

Social Inclusion & Gender:

- Women actively participate in floriculture and earn income.
- Encourages joint ownership and equal opportunities for men and women in flower cultivation.

🌟 Challenges & Lesson learned

- **Major Challenges Faced:** Availability of good-quality chemicals and a lack of quality Mother plant.
- **Actions Taken to Overcome Challenges:** To communicate with native scientific store dealers, we have collected a few good-quality chemicals.
- **Lessons Learned / Recommendations for Future:** If we use good quality chemicals in Plant Tissue Culture Regeneration media then we shall produce best quality Shoot and Plantlet. Overall Plantlet production will be increased, and production costs will be reduced.

📄 Basic Information



Supported by:
RRF



Ongoing:
From 2017
to till



Budget:
BDT
68,80,764



Staff:
05



No. Of Participants
200
Female: 50
Male: 150



Area:
Jashore, Jhenaidah,
Dhaka, Gazipur
Rajshahi, Rangpur &
Chattogram District



💡 Innovative of Liliium Production

Green Biotech Tissue Culture Lab has developed a protocol for producing Liliium plantlets in three varieties: **Amiga, Frontera, and Eremo**. In vitro plantlets are transferred to soil to produce bulbs, which are preserved at low temperatures for next-year production. After the dormancy period, bulbs are planted, and within three months, the lilies bloom in the off-season.