

Facility created at the Sugarcane Breeding Institute for Mechanized Priming of Sugarcane planting materials



Implementation Overview

- ❖ **Mechanized priming in Sett Treatment Device (STD) enables smart delivery of many agro-inputs at a time to ascertain seed health in planting material for nursery and main field** which aims for
- ❖ Sustainable cultivation of elite varieties in sugarcane and other vegetatively propagated crops
- ❖ Increasing the productivity by avoiding loss due to early season pest and diseases.
- ❖ Empowering the farmers/entrepreneurs for profitability and sustainable livelihoods

Technology Snapshot

- ❖ **Technology/ Process**
Patent Number: 516028 (2024)
Application No: 3323/CHE/2011

“Rapid treatment for planting materials of sugarcane and other vegetatively propagated crops”

- ❖ Integrates physical, chemical and biological inputs for smart pest and disease management
- ❖ **Technology Readiness Level (TRL): TRL 8**
- ❖ Commercialized, since 2016 for fabricating **STD units** by 3 private firms
- ❖ About 500 installations completed in India

Expected Impact

Economic potential

- ❖ Acts as preventive and protective measure against biotic and abiotic stress
- ❖ In normal situation, increases the yield by 8-10%
- ❖ In endemic areas for pest and diseases, increases yield > 50%
- ❖ Reduces input quantity and cost by 1/10th

Social Impact

- ❖ Promotes Entrepreneurship
- ❖ Promotes Organic/ Natural farming
- ❖ Empowerment of Marginal Farmers
- ❖ Employment for Farm Women
- ❖ Food security and clean environment