



Mechanized priming of planting material in sugarcane and other vegetatively propagated crops



- ❖ Innovative, patented and commercialized technology
- ❖ Protects seed and crop health, full fills IDM/ IPM
- ❖ Simple, effective, economical and eco-friendly
- ❖ Entered into subsidy, encourages entrepreneurship
- ❖ Recognized for Integrated Management of Sugarcane Red rot

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

CSR PARTNERSHIP OPPORTUNITIES

- ❖ Farmer Outreach – for Sugarcane
- ❖ Technology Scale-up - for other vegetatively propagated crops
- ❖ CSR Funding Support: for effective implementation
- ❖ Industry Partnership: Sugar Mills and their association; Processing industries for other crops