



Low Cost Multiplication Technology of Salt Tolerant Bio-Growth Enhancers (Bacillus, Pseudomonads & Trichoderma) for Increasing Productivity of Agri-Horti Crops in Normal and Sodic Soils

Present technology was developed to produce microbial consortia of beneficial microbes which have universal applicability, higher self-life and lowest cost of production

Technology Description

• Bacillus is well known soil microbe for nutrient uptake. • Pseudomonas and Trichoderma are well known for their plant protection properties apart from growth regulation. considerable amount of isolates are available in the country as biofertilizers and biocontrol agents • The strains are specific to particular region or soil pH. Moreover, the cost of commercial product ranges from Rs. 80-150 /kg in the open market and public sector institutions.

Name Of institute: I.V.R.I., Izatnagar, Bareilly
Stage of development:
Ready for commercialization
Patent status: Filed

Scientific Experts:
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Background

• Continuous use of chemical fertilizers and systemic pesticides changes the micro-environment around root zone of plants and the changed environment does not support the growth of beneficial soil microbes. • use of chemical fertilizers is limited to NPK and indiscriminate use of chemical pesticides to control pest and diseases

Benefits / Utility

• Highly economical. • The formulation has multiple role • The ingredients of growth medium is widely available • The live count in liquid medium is constant for over 3 months • Take care most of the problems and cover from seed treatment, soil application and foliar

Country Context

india

Scalability

Moderate

Business and Commercial Potential

Low to moderate potential

Potential investors to this technical innovation

• Firms producing bio-fertilizers, bio-pesticides, planting and seed



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Target Market / Customer

• Farmers having normal or sodic land, • Nursery owners, • Seed manufacturing firms • Planting material suppliers, organic farmers/ production system • landscaping and floriculture Industry

