

Goa Bio-1: Bio-formulation for plant growth promotion of paddy under salt affected soils of coastal regions

Background:

Productivity of paddy cultivated in the salt affected soils of coastal regions is very low. One of the promising approaches to improve the productivity of paddy is to improve the soil biological activity that would indirectly help in nutrient mineralization, alleviation of salinity stress, lead to better crop establishment and production. Soil biological activity in salt affected soils can be improved by augmenting the saline tolerant plant growth promoting microorganisms. ICAR-CCARI had identified a promising salt tolerant plant growth promoting bacterium. The bacterium was characterized and studied in detail about its use as bio-agent in the paddy cultivation.

Technology details:

Bio-formulation of salt tolerant, plant growth promoting bacterium recommended for improving growth promotion in paddy cultivated in the saline areas of Coastal regions. The population of bacterium in the formulation is $>10^8$ CFUg⁻¹ with the shelf life of at least 18 months. The formulation is recommended in paddy grown under saline soils and vegetable crops (Brinjal, tomato, chilli and cucumber), black pepper, fruit and plantation crop nurseries. Benefits of using Goa Bio-1 include, better nutrient mineralization; alleviation of salinity stress; better crop establishment; improved plant growth parameters, yield and soil biological activity.

Licensing terms

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- Duration of license: 5 Years
- License fee & other terms: Please contact the Institute

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