

# 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. Improving the soil biological activity by salinity-tolerant plant growth-promoting micro-organisms can help in nutrient mineralization, alleviation of salinity stress and lead to better crop establishment and production.

## Description:

Institute has identified a promising salt-tolerant plant growth promoting bacterium for the paddy cultivation.

Organism: *Bacillus methylotrophicus* STC-4

Formulation: Talc-based

Population:  $>10^8$  CFU/g

Shelf life: 18 months

Recommended crops: Paddy (under saline and non-saline soils), Vegetable crops (Brinjal, tomato, chilli and cucumber), Black pepper



**Potential Beneficiaries:** Paddy farmers, agri-entrepreneurs, state department of agriculture

## Impact of technology:

The product is eco-friendly, economically viable and sustainable in long term.

Yield improvement of 17% over farmers' cultivation practice and nearly 50 hectares of paddy cultivated area has been covered.

**Status of commercialization:** Technology is under process with ITMU for evaluation and finalization of licensing terms.