

Production of Biofertilizers and Organic Farming - Food & Agriculture

Description:

Bio-fertilizers are being essential component of organic farming are the preparations containing live or latent cells of efficient strains of nitrogen fixing, phosphate solubilizing or cellulolytic micro-organisms used for application to seed, soil or composting areas with the objective of increasing number of such micro-organisms and accelerate those microbial processes which augment the availability of nutrients that can be easily assimilated by plants. Biofertilizers play a very significant role in improving soil fertility by fixing atmospheric nitrogen, both, in association with plant roots and without it, solubilise insoluble soil phosphates and produces plant growth substances in the soil.

Use of biofertilizers is one of the important components of integrated nutrient management, as they are cost effective and renewable source of plant nutrients to supplement the chemical fertilizers for sustainable agriculture. Several microorganisms and their association with crop plants are being exploited in the production of biofertilizers.

Organic farming system is not new in India and is being followed from ancient time. It is a method of farming system which primarily aimed at cultivating that land and raising crops in such a way as to keep the soil alive and in good health by use of organic wastes (crop, animal and farm waste, aquatic waste) and other biological material along with beneficial microbes (biofertilizers) to release nutrients to crops for increased sustainable production in an eco-friendly, pollution-free environment.

India is an agro based country. So organic farming plays an important role in agro field. The popularity of organic farming is gradually increasing and now organic agriculture is practiced in almost all countries of the world, and its share of agricultural land and farms is growing. As the organic food market continues to expand, so do the opportunities for small farmers.

It is believed by many that organic farming is the much healthier and sustainable option. Although the health benefits of organic food are yet to be proven fully, consumers are willing to pay a higher premium for organic

crops. Many farmers in India are shifting to organic farming due to the domestic and international demand for organic food.

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Keywords: organic farming and biofertilizer production, bio fertilizers, role of bio fertilizer in crop production, production and distribution of bio fertilizer, organic farming, method of organic farming, weed and pest management, biofertilizers for rice ecosystem, green manuring, biological nitrogen fixation, organic matter and soil fertility, rice-fish integration of organic farming, microorganism for organic farming, Production of Biofertilizers and Organic Farming, Food & Agriculture, Organic farming

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