

Business Incubation opportunities have been created in following areas at Science and Technology Entrepreneur's Park (STEP) which has well established plant and machinery for their production and market seeding.

Production of bacterial biofertilizer: Benefits of biofertilizers are their long term sustainability in crop production and replacement of the chemical based agriculture to organic agriculture.

Production of algal biofertilizer for paddy: Algal inoculation in rice crops leads to more availability of nitrogen, improve fertilizer utilization efficiency of crop plant and saves chemical nitrogen.

Recycling of organic wastes for improving soil structure: Recycling of biodegradable organic wastes back into the soil is composting. It improves the biological properties, physical structure and water holding capacity of the soil.

Mushroom Cultivation & Processing: Mushrooms have been recommended as the food contributing to the protein nutrition and its cultivation using agricultural wastes is an ideal option.

Development of nutrition rich and fortified cereal based baked products and its pre-mixes: Cereal pre-mixes containing food additives have high potential for growth and used during food processing.

Development and optimization of shelf stable fruit and vegetable blended juices: Post harvest processing of fruits and vegetables for juice extraction is essential to ensure effective storage and prevent unnecessary losses and wastage.

Production of biopesticides from neem seeds: Neem seeds provide the most effective, environment friendly, economic and lasting control of major insect pests of agricultural and plantation crops.

Production of biodiesel from waste oil and non-edible vegetable oil: Bio Diesel is a substitute for diesel fuel that is derived from the oils and fats of plants, like Sunflower, Canola or Jatropha. It is an alternative fuel that can be used in diesel engines and provides power similar to conventional diesel fuel.

Production of therapeutic dairy products: Yoghurt is one of major fermented dairy product. Because of its ingredients it is easy to digest and is of high biological value. Yoghurt rich in poly and mono saturated fatty acids is manufactured from defatted milk using vegetable oils as the source of PUFA.

Instant gravy mixes: Tertiary processed foods requiring minimum preparation with long shelf life facilitates the home maker. Instant gravy mix is a ready tadka, which reduces cooking time and energy.

Mircopropagation of medicinal plants: Propagation of medicinal plants such as *Tylophora indica*, *Stevia rebaudiana* and *Rauwolfia serpentina* through tissue culture. Conventionally these plants donot propagate because there seeds are very small and donot germinate with viable growth rates.

Secondary metabolites from *in vitro* raised plants: Natural products are increasingly becoming the center of attention of pharmaceutical and nutraceutical industries. Medicinal plants such as *Stevia rebaudiana* and *Tylophora indica* are used for extracting some valuable products like stevioside, sweet diterpene glycosides and tylophorine which are used in curing various health problems.

Production of Soy paneer (tofu) and soy milk: Soya bean is a leguminous crop and is rich in proteins. Many value-added products are made from it like milk, sauce, paneer etc. Soya products are increasingly becoming popular especially amongst health-conscious people because of their rich protein content.

Spirulina production: Spirulina is a source of single cell protein and due to high protein content it has potential for mass cultivation in specialized algal ponds, harvesting, drying and pelleting for use as food for human cincumption and also as feed supplement for poultry and cattle.