

## **BEST PRACTICE-3**

**Title of the Activity:** Production of Microbial Bio fertilizer

**Duration (year of inception):** Science 2017

### **Objectives of the Practice:**

The excessive use of chemical fertilizers and pesticides has generated several environmental problems including the greenhouse effect, ozone layer depletion, and acidification of water. These problems can be tackled by use of biofertilizers and biopesticides, which are natural, beneficial, and ecologically and user-friendly. The biofertilizers provide nutrients to the plants, control soil borne diseases, and maintain soil structure. Microbial biofertilizers play a pivotal role in sustainable agriculture.

### **The Context:**

During the past four decades we have witnessed the doubling of the human population and a concurrent doubling of food production (Vance, 2001). Plant nutrition has played a key role in this dramatic increase in demand for and supply of food. Increases in crop production have been made possible through the use of commercial man-made fertilizers.

The increasing use of fertilizers and highly productive systems have also created environmental problems such as deterioration of soil quality, surface water, and groundwater, as well as air pollution, reduced biodiversity, and suppressed ecosystem function.

### **The Practice:**

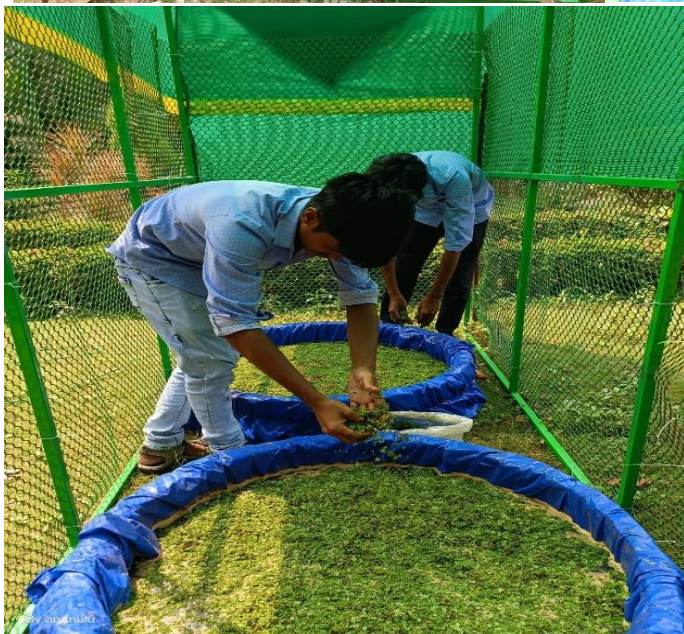
Application of microbial biofertilizers is a natural and effective way of increasing and maintaining the mineral economy of nature. Their use reduces the use of chemical fertilizers, which is the only alternative for sustainable agriculture.

### **Evidence of Success:**

The department supplying the azolla biofertilize to the farmers

# Production of Microbial Bio fertilizer





**Microbial biofertilizers play a pivotal role in sustainable agriculture**