# BAAGWALA

### **AGRO & BIOTECH**



### **Azotobacter** (Nitrogen Fixing Bacteria)





### **Azospirillum Nitrogen Fixing Bacteria**



### **Phosphate Solubilizing Bacteria/Fungi**

Phosphate solubilizer Bacteria/Fungi is one of the important biofertilizer. Phosphorus is amajor nutrient for plants inducing vigorous growth and also contributing to their diseaseresistance. Phosphorous helps in root formation and plant growth. Phosphate solubilizerBacteria/Fungi has highly efficient phosphate solubilizing bacteria/fungi (Bacillussp,/Aspergillus sp,) that grow and secrete organic acids, which dissolve unavailable phosphateinto soluble form and make it available to the plants.



#### **Mycorrhiza**

The transfer of nutrients mainly phosphorus and also zinc and sulphur from the soil milleu to the cells of the root cortex is mediated by intracellular obligate fungal endosymbionts of the genera Glomus, Gigaspora, Acaulospora, Sclerocysts and Endogone which possess vesicles for storage of nutrients and arbuscles for funneling these nutrients into the root system. By far, the commonest genus appears to be Glomus, which has several species distributed in soil.



#### **Potash Mobilizing Bacteria**

Potash Mobilizer is a beneficial bacterium capable of mobilizing Potassium available in soil into the root zone of plants. It works well in all types of soil. Use of such bacteria can increase the availability of more potash in usable form to the plants. When applied to soil, potash mobilizing bacterium multiplies, and helps to mobilize potassium fixed in soil. Potash mobilizing bacteria mobilizes the insoluble potash in the soil into easily available form to the plant.



#### **BioDecomposer**

Direction for use: Make the solution of Biodecomposer in sufficient quantity of jiggery water.

After every 8-10 days turn the organic raw material of the heap and again spray this solution on the heap and mix it thoroughly.

There are three ways of using Liquid Bio-fertilizers

Seed treatment
Root dipping
Soil application
Seed treatment: Mix 40 ml of biofertilizer with appropriate quantity of water and thoroughly mix with 1 kg of seed and dry the seed under shade before sowing.
Soil treatment: Mix 500 ml of biofertilizer with appropriate content of FYM or carrier and mix well. Broadcast the content in 1 acre land before last ploughing.
Drip irrigation: Mix 5.0 ml of biofertilizer per 1 liter of water.

liter of water.

Caution: Store the biofertilizer bottle in cool

## **CONTACT**

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We also provide other organic product like Amino acid fertilizer, Mix consortium of NPK biofertilizer, Flower Stimulating Agent, Tonnic, Plant growth promotor and Neem Oil.



## Zinc Solubilizing Bacteria

Zinc is an imperative micronutrient required for optimum plant growth. Zinc solubilizing bacteria are potential alternatives for zinc supplementation and convert applied inorganic zinc to available forms. Plants can uptake zinc as divalent cation but only a very minor portion of total zinc is present in soil solution as soluble form. Rest of the zinc is in the form of insoluble complexes and minerals. Due to unavailability of zinc in soil, zinc deficiency occurs which is one of the most widespread micronutrient deficiency. Zinc solubilizing microorganisms solubilize zinc through various mechanisms, one of which is acidification.

Biofertilizer application methodology There are three ways of using Liquid Bio-fertil izers

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Caution : Store the biofertilizer bottle in cool and dry place.

Avoid direct heating or sunlight to the biofertilizer bottle.

Shake well before use.



# **Seaweed Fertilizer**

Seaweed fertilizer is enriched with many minerals, enzymes and vitamins that help in stimulating plant growth. It helps in microbial activity in the soil, accelerates photosynthesis and induces flowering. Seaweed Extract protects plants from Aphids, fungus and insect attacks. It reduces the shedding of both leaves and immature fruits. Sea Weed Extract retains moisture content in the soil, stimulates cell division, increases Nitrogen percentage, maintains appropriate temperature in the soil and thus, aids in healthy plant growth. In addition, the extract powder helps in white root development and enhances nutrient uptake.



# Humic Acid Fertilizer

Humic Acid is a natural occurring components of humorous components. Humate and humic acid are important in crop agriculture because of their soil enriching properties. These organic components enhance the nutrient-holding capacity of the soil and also may increase or enhance micronutrient uptake. It enhances fertilizer utilization, acts as a buffer and improves the growth of important microbial that help with soil detoxification, helps in the aeration and bio-activation of the soil and also in seed germination.



