



**Zymetree Tech & Trade
Presents**

ARAN

BIO-FERTILIZERS & BIO-CONTROL AGENTS

**Wide range of microbes used as
growth promoting bio-fertilizers and
disease/pest/insect fighting bio-
control agents**

- ✓ **POWDER/LIQUID FORMULATIONS**
- ✓ **PURE AND CONSORTIUM CULTURES**
- ✓ **FRESH PREPARATIONS**
- ✓ **CROP SPECIFIC PRODUCTS**
- ✓ **ECONOMIC PRICE RANGE**

CONTACT



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Growth Promoting Microbial Biofertilizers – Bacteria & Fungus

Plant growth promoting bacteria are beneficial microbes that live in close association with plants and help them grow better by various direct or indirect mechanisms.

Nitrogen Fixing Bacteria Products:

Azospirillum, Rhizobium, Acetobacter, Azotobacter

Potash Solubilizers:

Potash Solubilizing Bacteria (KSB)

Phosphate Solubilizers:

Phosphate Solubilizing Bacteria (PSB), Penicillium oxalicum, Trichoderma virens

Micronutrient Facilitators:

Zinc Solubilizing Bacteria (ZnSB), Sulphur Solubilizing Bacteria (SSB), Boron Solubilizing (BSB), Silicate Solubilizers (SiSB)

Vesicular Arbuscular Mycorrhiza (VAM)

VAM fungus

- Promote faster root and shoot growth by producing plant hormones.
- Solubilize phosphorus, potassium, sulfur, silica, zinc, and other nutrients for easy plant absorption.
- Fix atmospheric nitrogen, reducing the need for chemical nitrogen fertilizers.
- Produce antibiotics and antifungal compounds that protect plants from diseases.
- Lower plant stress hormones, helping plants survive drought, salinity, and heat.
- Improve soil structure and increase beneficial soil microbial populations.
- Reduce dependence on chemical fertilizers and pesticides.
- Increase crop yields and improve produce quality.
- Restore soil health and fertility over time.
- Lower farming costs and boost farmer profits.

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Bio-Control Agents

Organisms that are beneficial microbes which are pathogenic to the disease causing insects, pests, parasites and other enemies.

Soil Protectors:

Trichoderma viride, *Trichoderma harzianum*, *Paecilomyces lilacinus*, *Pochonia chlamydosporia*

Pest/Insect Fighters:

Verticillium lecanii, *Metarhizium anisopliae*, *Beauveria bassiana*, *Ampelomyces quisqualis*, *Gliocladium virens*, *Streptomyces lydicus*
Pseudomonas fluorescens, *Bacillus thuringiensis*, *Bacillus subtilis*, *Bacillus amyloliquefaciens*

- Biocontrol agents like predatory mites, parasitic wasps, and certain bacteria and fungi (e.g., *Beauveria bassiana*, *Metarhizium* spp.) are used to control various insect pests.
- Beneficial nematodes can be used to target and kill plant-parasitic nematodes, reducing their damage to crops.
- Biocontrol agents like certain bacteria and fungi (e.g., *Trichoderma* spp.) can directly attack and suppress plant pathogens, reducing the incidence of diseases.
- These agents can also induce plant resistance, making plants less susceptible to diseases.
- Biocontrol agents can also produce plant hormones and other beneficial substances that promote plant growth

APPLICATION METHOD

SEED TREATMENT: SEEDS CAN BE TREATED WITH THE BIOFERTILIZER AND BICONTROL AGENT SOLUTION BEFORE PLANTING.

SEEDLING TREATMENT: THE ROOT OF SEEDLINGS CAN BE DIPPED IN THE SOLUTION BEFORE PLANTING

SOIL TREATMENT: SOIL DRENCH, FLOODING IRRIGATION AND ALSO CAN BE APPLIED WITH FYM/COMPOST/OIL CAKES/SOIL

DRIP IRRIGATION: NPK MIXTURE CONSORTIA CAN BE INTRODUCED INTO THE IRRIGATION SYSTEM FOR FERTIGATION.

FOLIAR SPRAY: SUITABLY DILUTED SOLUTIONS CAN BE SPRAYED USING MANUAL OR DRONE BASED METHODS.

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Agri Inputs

Various forms of Carbon, Macronutrients and other Micronutrients. Also provides vitamins, plant growth stimulators and disease controlling substances

Growth Promoting Inputs:

Effective microorganisms (EM), Fish Amino Acid (FAA), Seaweed Extract, Panchagavya, Enriched Biocompost, Vermi Compost, Phosphate Rich Organic Manure (PROM), Humic Acid, Oil Cakes

Pest/Insect/Disease Fighters:

Natural Pest Repellent, Neem Cake, Neem Oil, Pungamia Oil, Bioenzyme, Natural extracts

Consultation

We provide consultation services for different crops as well.

Schedule Charts:

We provide an year long chart of activities for all type of crops. The charts include the schedule of application of biofertilizers and biocontrol agents along with dosage details.

Customized Microbes:

We also develop customized microbes upon the request of customers for any type of crop. These customized microbes provide very high benefits to the crop.

For collaborations and services, please feel free to contact us

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