



Biofertilizers
Biostimulants
Biopesticides
Biochelated Water Soluble Fertilizers
Bio Soil Conditioners

Residue-Free Viricides
Residue-Free Fungicides
Residue-Free Anti-Bacterials
Residue-Free Anti-Feedants



Residue-Free
BIO NUTRITION

Nutrition to Farm

Nourishment to People

DERIVED FROM NATURE

HEALTHIER CROPS, HAPPIER FARMERS,
AND A SUSTAINABLE PLANET

Join us in building a planet—where plants thrive,
yields soar, and farming becomes a source of
pride and peace of mind.

FROM REACTIVE TO PROACTIVE FARMING.
FROM TREATMENT TO PREVENTION.
FROM SHORT-TERM TO LONG-TERM GAINS.



NATURALLY PROTECT CROPS, PROTECT THE ENVIRONMENT

- Free From harmful chemicals which increases plant health, strengthening natural defenses against biotic and abiotic stresses.
Geolife's residue-free solutions ensure healthier crops, enriched nutrition, and long-term sustainability.
- Harnessed from Nature: Using advanced microbial extraction technology, our products strengthen plants from within, ensuring sustainable and resilient growth.

PLANT GROWTH DRIVEN BY NUTRITION— NOT HARMFUL CHEMICALS

- Builds strong roots, healthy leaves, and vibrant flowers.
- Fortifies natural immunity against pests, fungi, bacteria, and viruses.

3X POWER FOR EVERY PLANT

- 3X Better Growth.
- 3X More Strength.
- 3X Higher Yield.

BOOSTS PLANT IMMUNITY

- Shields plants from biotic and abiotic stresses.
- Prevents flower drop, ensures blooming growth, and faster stress recovery.

FARMER PROSPERITY

- Increases yield by 30-100%, significantly boosting profitability.
- Saves costs on costly, poisonous chemicals, improves soil health, and fosters long-term sustainability.

OUR VISION

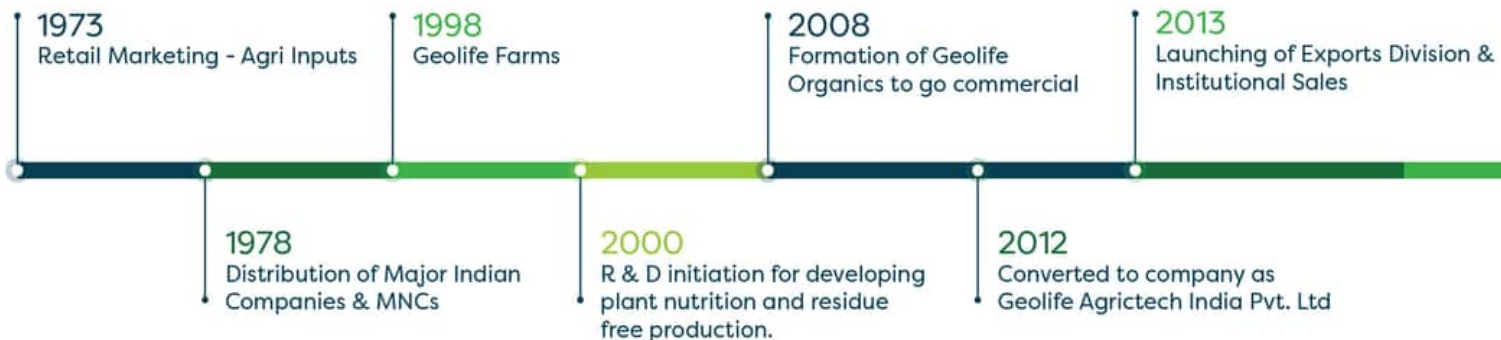
TO REVOLUTIONIZE GLOBAL FARMING WITH NUTRITION-SENSITIVE SOLUTIONS WHILE FOSTERING LIFELONG, VALUE-BASED

Geolife is at the forefront of a revolution in agriculture, pioneering the shift from chemical-intensive farming to Nutrition Sensitive Farming. By providing innovative and natural solutions such as biofertilizers, biostimulants, water-soluble fertilizers, soil conditioners, crop protection, and biopesticides, Geolife empowers farmers to cultivate healthier crops, improve yields, and ensure long-term sustainability. With a mission to deliver poison-free nutrition and foster a healthier planet, Geolife's cutting-edge technology, rooted in nature, is transforming farming practices and creating a brighter future for farmers and consumers alike.



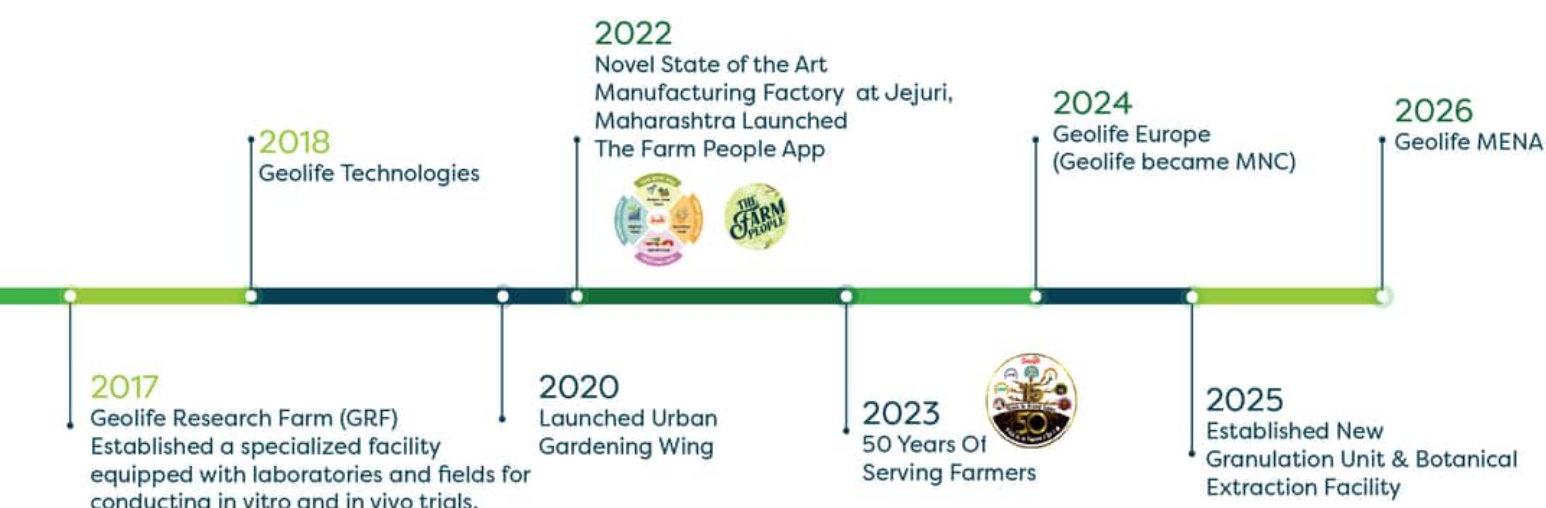
MILESTONES

53 YEARS OF INCREDIBLE JOURNEY



OUR MISSION

EMPOWERING FARMERS WITH NATURAL SOLUTIONS FOR SUSTAINABLE, POISON-FREE AGRICULTURE AND HEALTHIER COMMUNITIES.



STATE-OF-THE-ART RESEARCH AND MANUFACTURING HUB FOR NEXT-GEN AGRICULTURAL SOLUTIONS

In 2022, Geolife established its cutting-edge manufacturing hub, registered under the Ministry of Agriculture and Farmers Welfare, to meet the rising global demand for sustainable agricultural solutions. This state-of-the-art facility focuses on producing innovative, nature-inspired inputs like biofertilizers, biostimulants, and residue-free crop protection, empowering farmers with eco-friendly solutions to achieve healthier yields and long-term sustainability.

Geolife's facility is a beacon of excellence, integrating modern technology and traditional wisdom to redefine sustainable agricultural practices.

FACILITY OVERVIEW

Main Production Unit: Spanning 70,000 square feet, the unit is optimized for large-scale, efficient manufacturing.

Granulation Unit: A dedicated 12,000-square-feet, facility focused on precision granulation processes.

State-of-the-Art Fermentation Facility: Fully automated and designed for high-quality microbial production.

ADVANCED PACKAGING FACILITY

Tailored for powder, granular, and liquid packaging with cutting-edge technology ensuring efficiency and quality.

GEOLIFE'S MANUFACTURING FACILITY INTEGRATES THE EXPERTISE OF AGROTECHNOLOGISTS, BOTANISTS, MICROBIOLOGISTS, TECHNICIANS, BIOCHEMISTS AND PRODUCTION ENGINEERS WORKING COLLABORATIVELY ACROSS SPECIALIZED AREAS TO DELIVER BREAKTHROUGH SOLUTIONS.

TOTAL AREA: 4,80,000 SQF.

Location:

GAT no. 648, Lavahalwadi, Village Kolvihire,
Jejuri Morgaon Road.
Tal: Purandar Pune - 412 303
(Maharashtra - INDIA)



LIQUID



POWDER



TABLET



GRANULES



GEL



SPECIALIZED FACILITIES

Clean Room and Biotech Lab Facilities:

- A 6,000-square-foot dedicated space for advanced research and lab-scale production of bacterial and fungal strains.
- Unique microbial derivatives extraction with a focus on innovation and efficacy.

Analytical Laboratory

- A 1,500-square-foot space equipped with sophisticated instrumentation for comprehensive quality control and research.

Botanical Extract Development – Vruksh Ayurveda:

- Specialized facility for extraction, formulation development, and stability testing, guided by the principles of Vruksh Ayurveda, ensuring the creation of innovative, nature-inspired botanical solutions.



Fully Automatic PLC-SCADA ba



ased Fermentation Facility

GEOLIFE RESEARCH FARM

GEOLIFE'S RESEARCH FARM (GRF) IS A STATE-OF-THE-ART RESEARCH FACILITY DEDICATED TO PIONEERING AGRICULTURAL ADVANCEMENTS THROUGH INNOVATIVE RESEARCH AND TESTING. IT BLENDS WORLD-CLASS INFRASTRUCTURE WITH A COMMITMENT TO SUSTAINABILITY, EMPOWERING GLOBAL FARMING PRACTICES WITH CUTTING-EDGE SOLUTIONS.

COMPREHENSIVE IN-VITRO & IN-VIVO TESTING FACILITIES



THE GEOLIFE RESEARCH FARM IS EQUIPPED WITH SOPHISTICATED LABORATORIES AND TESTING SETUPS TO ENSURE PRECISE AND RELIABLE RESULTS:

- PATHOLOGY LAB: Advanced diagnostics for plant health and disease management.
- ENTOMOLOGY LAB: Specialized research into pest control and insect behavior.
- SEED TRIALS: Rigorous evaluation of seed performance under various conditions.
- POT CULTURE TRIALS: Controlled experiments for plant growth and nutrition.
- PEST AND DISEASE TRIALS: Targeted testing to develop effective protection strategies.
- GROWTH AND NUTRITION TRIALS: Comprehensive assessments of plant vitality and nutrient uptake.
- HYDROPONIC TRIAL SECTION: Exploring soilless cultivation techniques to enhance yield and resource efficiency.

Product Trials Flow at Geolife Research Farm

In Vitro Trials → Pot Culture Trials → GRF Field Trials → Multilocation Trials in Farmers' Fields



ADVANCING EXCELLENCE IN AGRICULTURAL RESEARCH

COLLABORATIVE FIELD RESEARCH AND
MULTI-LOCATION TRIALS
A DEDICATED TEAM OF AGRICULTURISTS
CONDUCT LARGE-SCALE FARMER PLOT TRIALS.

A dedicated team of expert agriculturists conducts large-scale farmer plot trials, ensuring solutions are thoroughly tested under real-world conditions.

GRF collaborates with Geolife's national network to execute multi-field trials across India, generating robust efficacy data to support innovation and scalability.

PRODUCT PORTFOLIO BACKED BY RESEARCH AND DEVELOPMENT

- Biofertilizers
- Nanotechnology-Based Nutrients
- Botanical Extract-Based Products
- Biostimulants
- Performance Enhancers
- Soil Health Enhancers
- Residue-Free Liquid Fertilizers
- Residue free pesticides
- Microbial Extract-Based Biostimulants
- Microbial Biopesticides

Geolife seamlessly integrates cutting-edge technology with eco-conscious practices, driving agricultural progress while minimizing environmental impact. By reducing dependence on chemical inputs and focusing on sustainable productivity, Geolife empowers farmers to achieve exceptional results with a positive global impact.

The Geolife Research Farm is more than just a testing ground—it is a beacon of progress, combining science, innovation, & sustainability to redefine global agriculture.



In Vitro Trials



Pot Culture Trials



GRF Field Trials



Multilocation Trials in Farmers' Fields

Location: Geolife Research Farm, Phursungi, Pune-412 308, Maharashtra, India

CERTIFICATIONS

PRODUCT CERTIFICATIONS:



APPROVED INPUT for Organic EU &
National Organic Program (NOP)



Certified
Vegan Production
Ingredients Not From Animal Origin
CU #123456



*APPROVED INPUT for use in
Organic

COMPANY CERTIFICATION:



UNIVERSITY TRIALS

GEOLIFE HAS PERFORMED TRIALS ALL OVER THE COUNTRY
WITH TOP & REPUTED UNIVERSITIES OF INDIA AND LEADING RESEARCH
AGENCIES TO CHECK THE EFFICIENCY OF THE PRODUCTS



OUR TECHNOLOGIES

CONTINUOUS RESEARCH AND DEVELOPMENT ARE AT THE CORE OF GEOLIFE'S INNOVATIONS. TO SUPPORT THIS, THE COMPANY HAS WELL-EQUIPPED LABORATORIES AND LAB-SCALE PRODUCTION FACILITIES.

•• ————— ••
NANO
TECHNOLOGY



•• ————— ••
BIO
NANO
TECHNOLOGY



•• ————— ••
VRUKSHA
AYURVEDA BASED
BOTANICAL EXTRACTION
TECHNOLOGY



Geolife Technological and R&D Pathway

Extraction → Isolation → Formulation → Trial in GRF →

GEOLIFE'S TECHNOLOGIES:

- NANO TECHNOLOGY
- BIO NANO TECHNOLOGY (BNT)
- VRUKSHA AYURVEDA BASED BOTANICAL EXTRACTION TECHNOLOGY (BET)
- BIOTECHNOLOGY | ENCAPSULATED LIVE MICROBES (ELM)
- BIOTECHNOLOGY | MICROBIAL EXTRACTION TECHNOLOGY (MET)
- BIOCHELATED FERTILIZER TECHNOLOGY

ENCAPSULATED
LIVE
MICROBES



MICROBIAL
EXTRACTION
TECHNOLOGY



BIO CHELATED
FERTILIZERS
TECHNOLOGY



Multi-location & University Trials → Registration → Commercialization

NANO TECHNOLOGY

- Nano technology utilizes engineered particles sized 1–100 nanometers for efficient crop protection and plant nutrition. Their extremely small size increases surface area and reactivity, improving antimicrobial activity and nutrient efficiency compared with conventional agricultural formulations.
- Due to their ultra-small size, nanoparticles provide superior adhesion, uniform coverage, and deeper penetration on plant surfaces. This enhances nutrient uptake, enables controlled release, reduces application frequency, and minimizes chemical residues and environmental impact.
- This nano-enabled approach improves disease management, plant health, and stress tolerance. Nanoparticles such as nano silicon, copper, and silver support pathogen control, enhance photosynthesis efficiency, stimulate plant metabolism, and ultimately contribute to improved crop yield and quality.

BIO NANO TECHNOLOGY

- Geolife Bio-Nano Technology utilizes specially engineered nutrients derived from unique microbial sources. These microorganisms produce a wide range of bioactive metabolites that significantly enhance the efficiency of both macro- and micronutrient uptake in plants.
- Microbial extracts contain nano-colloidal complexes along with several naturally occurring metabolites that interact with essential plant nutrients. These complexes bind with nutrients and improve their availability and absorption by plants, even at very low application dosages.
- The nano-colloidal nutrient complexes contain important signalling biomolecules such as lipo-chitooligosaccharides (LCOs), peptides, and polysaccharides. These molecules function as biochemical signals that activate plant genes responsible for nutrient transport, uptake, and metabolic activity.

LOW DOSAGE

LOW RESIDUE

LOW COST

HIGH PERFORMANCE

BOTANICAL EXTRACT TECHNOLOGY

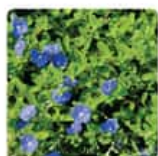
- **AYURVEDA**, is measure for **nutrition, disease prevention, diagnosis**, and treatment.
- Rooted in, an ancient one health framework that integrates **plant, animal, and human health**.
- **VRUKSHA AYURVEDA** has paved the way for the development of formulations for crop protection using a **Botanical Extract Consortium**.



THE SACRED BASIL



RICINUS COMMUNIS



EVOLVULUS ALSINOIDES



BAUHINIA RACEMOSA



CRAB APPLE



ACHYRANTHES ASPERA



EMBELIA RIBES



BASELLA RUBRA



AZADIRACHTA INDICA



CURCUMA LONGA

ENCAPSULATED LIVE MICROBES

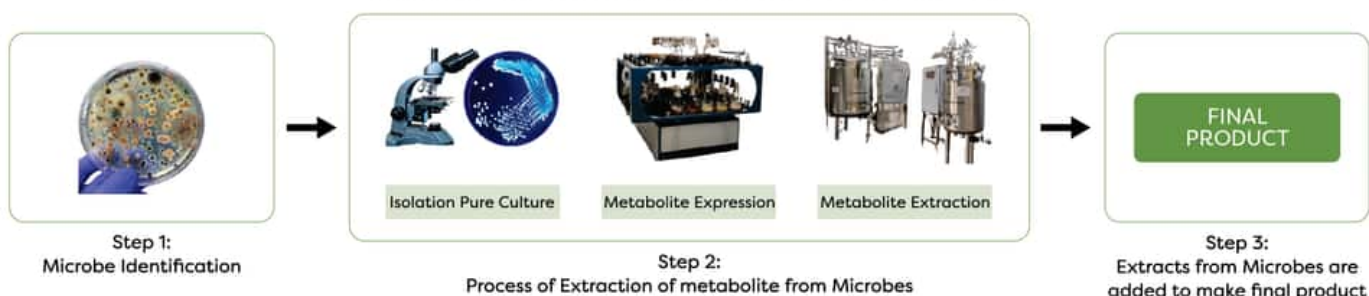
- The Geolife research team isolates **beneficial bacteria** from various environments and uses **DNA** sequencing to identify their genetic structures.
- This enables the development of effective **Biofertilizers and Pesticides**, serving as eco-friendly alternatives to chemical fertilizers and pesticides.
- By leveraging Biotechnology—these formulations are tailored to specific crops and soil conditions, enhancing sustainability & agricultural productivity.
- At Geolife, we **prioritize encapsulation technology** to improve the efficacy and shelf life of **microbes**, enabling **stable consortia** formulations with consistent field results.

MICROBIAL EXTRACT TECHNOLOGY



- It involves isolating unique microbial strains from diverse habitats in a specialized medium for completing the growth cycle.
- A series of intricate processes are employed to extract valuable metabolites, such as enzymes and amino acids, from the microbes.
- Microbial enzymes, recognized as potent biocatalysts, are then coupled with concentrated form ensuring efficiency and rapid action.

PROCESS OF MICROBIAL EXTRACT TECHNOLOGY



BIOCHELATION TECHNOLOGY



- Our proprietary Biochelation process is a revolutionary approach to plant nutrition, bridging the gap between raw minerals and biological uptake. By leveraging the principles of molecular bonding, we ensure that every nutrient delivered is utilized to its maximum potential.
- **MOLECULAR SHIELDING:** Bio chelation binds essential minerals with organic molecules from amino acids and microbial extracts, forming stable complexes preventing nutrient lock-up.
- **TARGETED BIOAVAILABILITY:** Biochelated nutrients remain soluble and stable unlike mineral salts, enabling consistent absorption and efficient delivery through plant vascular systems.
- **ECO-SUSTAINABLE EFFICIENCY:** Improved nutrient absorption allows reduced application rates, minimizing environmental runoff while enhancing crop performance and maintaining healthier soil ecosystems.
- **RAPID METABOLIC INTEGRATION:** Biological chelating agents enable plants to metabolize nutrient complexes efficiently, supporting faster deficiency recovery and improved physiological growth.

CONTENT

NEUROSPORA CRASSA BASED BIOSTIMULANTS & BIOFERTILIZERS 18-26

☐ ☐ ☐	Vigore	Neurospora crassa Extract Based Biostimulant
☐ ☐	Vigore Gold	N. crassa Extracts + Micronutrients Based Plant Growth Biostimulant
☐ ☐	Vigore Smart	N. crassa Extracts + Intelligent Endophytes Based Foliar Plant Growth Biofertilizer
☐ ☐	Vigore Raja	N. crassa Extracts + Mycorrhiza Based Soil Biofertilizer

ENCAPSULATED MICROBIAL BIOFERTILIZERS 27-38

☐ ☐	Bactogang 24	An Unique Consortium of Beneficial Microbes: Soil Biofertilizer
☐ ☐	Bactosmart	An Innovative Consortium of Intelligent Endophytes: Foliar Plant Growth Biofertilizer
☐ ☐	Nanorrhiza	Concentrated Mycorrhizal Gel
☐ ☐	Rrhizatech	Concentrated Mycorrhizal Technical Powder
☐ ☐	Decompo Max	Organic Waste Decomposer: A Powerful Bio-formulation

BIO NANO TECHNOLOGY FERTILIZERS AND BIOFERTILIZERS 39-48

☐ ☐ ☐	Nanofert Series	Bio Nano Technology Based Water Soluble Fertilizers
☐ ☐ ☐	Nanomeal Series	Bio Nano Technology Based Water Soluble Fertilizers with Trace Elements
☐ ☐ ☐	Nano Micronutrients	Bio Nano Technology Based Specialized Single Nutrient and Multi Micronutrients
☐ ☐ ☐	Nano Humic	High Performing Biostimulants
☐ ☐ ☐	Nano Aminos	High Performing Biostimulants
☐ ☐ ☐	Nano Seaweed	High Performing Biostimulants
☐ ☐ ☐	Nano PGP Mix	High Performing Biostimulants

BIOCHELATED RESIDUE-FREE LIQUID FERTILIZERS 49-54

☐	Poshan Series	Stage Specific Biochelated Residue Free Liquid Fertilizers
☐	Micronix	High Performing Multimicronutrients

INNOVATIVE SOIL CONDITIONERS 55-58

☐ ☐	Salt Down	Saline Soil Conditioner
☐ ☐	Carbon Stones	Soil Organic Carbon Recharger
☐	Foundations	Multi Micronutrients Based Soil Conditioner

CROP STAGE BIOSTIMULANTS 59-65

☐	Florex	Flower Booster
☐ ☐	Neo Vigore 51	Dual Action Formula for Flower Boosting & Drop Arrest
☐ ☐	Vigore Fruit Special	Fruit Size and Quality Enhancer
☐ ☐	Foster	Microbial Extract Based Plant Tonic
☐ ☐	Plus	Speciality Nutrients Based Biostimulant

BOTANICAL BIOPESTICIDES 66-77

☐	Geoneem	Azadirachtin Based Organic Insecticide
☐	Bittera	Botanical Extract Based 6X Bitter Organic Formulation
☐ ☐	No Virus	Botanical Viricide
☐ ☐	No Fungus BE	Botanical Fungicide
☐ ☐	No Bact	Botanical Bactericide

ENCAPSULATED MICROBIAL BIOPESTICIDES

78-89

☒	Micro Army TRH	Trichoderma harzianum
☒	Micro Army TRV	Trichoderma viride
☒	Micro Army AMP	Ampelomyces quisqualis
☒	Micro Army BS	Bacillus subtilis
☒	Micro Army BF	Bacillus firmus
☒	Micro Army PF	Pseudomonas fluorescens
☒	Micro Army BB	Beauveria bassiana
☒	Micro Army META	Metarhizium anisopliae
☒	Micro Army VL	Verticillium lecanii
☒	Micro Army Fungi	Consortium of Trichoderma harzianum, Trichoderma viride, Pseudomonas fluorescens
☒	Micro Army Ento	Consortium of Beauveria bassiana, Verticillium lecanii, Metarhizium anisopliae

CROP PROTECTION BY NUTRITION

90-101

☒	Tabasil	Biotic & Abiotic Stress Resistance Builder
☐	Nano Silicon	Nano Technology Based Ortho Silicic Acid
☐	No Fungus Cu	Nano Technology Based Broad Spectrum Fungicide
☐	Nano Ag	Nano Technology Based Broad Spectrum Bactericide
	SilCaMag	Silicon Based Soil Enhancer
	Aqualock	MET Based Anti-transpirant
☒	Treat	Broad Spectrum Antioxidant Against Fungus

PRODUCT PERFORMANCE ENHANCERS

102-107

☒	☒	Active	MET Based Performance Enhancer
☒	☒	Spider	Silicon Based Non Ionic Spreader and Sticker
		Buffer Up	pH Enhancer
		Buffer Down	pH Reducer

BALANCED CROP NUTRITION PACKAGE

108-120

☒	BCN Roots	Balanced Crop Nutrition for Roots
☒	BCN Soil	Balanced Crop Nutrition for Soil Health
☒	BCN Grow	Balanced Crop Nutrition for Growth
☒	BCN Flower	Balanced Crop Nutrition for Flowers
☒	BCN Fruit	Balanced Crop Nutrition for Fruits or Grains

HOME GARDEN AND KITCHEN GARDEN NUTRITION

121-122

☒	FertiGarden	Tablet of All Essential Nutrients for Home Gardening
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OUR GLOBAL PRESENCE

123

NEUROSPORA CRASSA EXTRACT BASED BIOSTIMULANT & BIOFERTILIZERS

NEUROSPORA CRASSA IS A FILAMENTOUS ASCOMYCETE FUNGUS AND A MODEL EUKARYOTIC MULTICELLULAR ORGANISM USED FOR DEVELOPMENTAL BIOLOGY, AND MOLECULAR BIOLOGY.

It is known to produce various biomolecules, including enzymes, antioxidants, secondary metabolites, & plant growth regulators, which directly or indirectly benefit plant growth and soil health.

Geolife, through its proprietary technology, has harnessed the potential of *Neurospora crassa* to produce these biomolecules and utilised them in formulating innovative products such as Vigore, a research-backed formulation enriched with *Neurospora crassa* extracts.

Neurospora crassa extracts offer multiple advantages, including accelerated plant growth, development of vigorous roots, shoots, and tillers, consistent flowering and fruiting, enhanced disease resistance, and improved abiotic stress tolerance, ultimately boosting yield and produce quality.

AGRO SOLUTIONS

- *Vigore*
- *Vigore Gold*
- *Vigore Smart*
- *Vigore Raja*



TIGER POWER IN YOUR CROP

ULTIMATE YIELD ENHANCER FOR ALL CROPS

VIGORE®

NEUROSPORA CRASSA EXTRACTS
BASED BIOSTIMULANTS

CONTAINS VITAMINS, ENZYMES,
ANTIOXIDANTS, SECONDARY METABOLITES

UPTO **3** Times More Roots
Times Greener & Shinier Leaves
Times More Flowering
Times More Yield
Times More Profit



NEUROSPORA
CRASSA EXTRACTS

FOR VIGOROUS
PLANT DEVELOPMENT



NC EXTRACTS +
ESSENTIAL
MICRONUTRIENTS

FOR VITAL GROWTH &
NUTRITION CORRECTOR



NC EXTRACTS +
BENEFICIAL
ENDOPHYTES

FOR STRESS FREE
PLANT DEVELOPMENT



NC EXTRACTS +
MYCORRHIZA

FOR ROOT TO
SHOOT DEVELOPMENT



VEGAN

ORGANIC

BIONANO

NANO

VIGORE

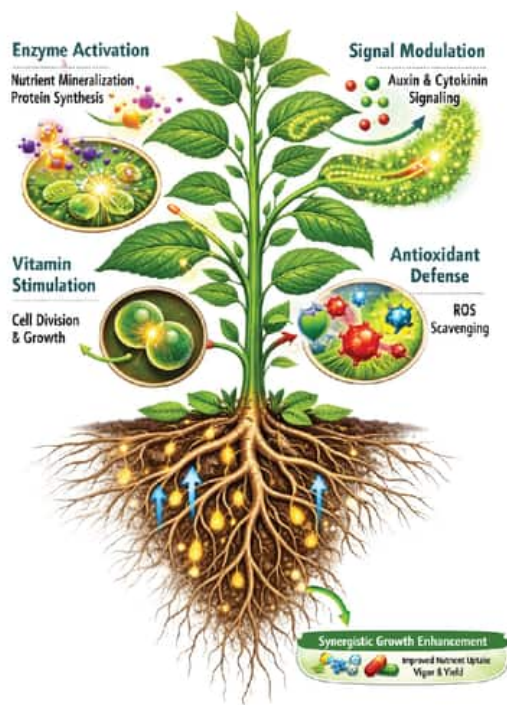
NEUROSPORA CRASSA EXTRACT BASED BIOSTIMULANT

ULTIMATE YIELD BOOSTER: Gives Up to 30-100% More Yield
Contains Vitamins, Enzymes, Antioxidants and Secondary Metabolites

Tiger Power In Your Crops. It's Not A Medicine, It's A Nutrition
For healthier and more productive crops.

MODE OF ACTION

- 1. ENZYME-DRIVEN METABOLIC ACTIVATION** - Extracellular enzymes enhance nutrient mineralization and metabolic flux, accelerating protein synthesis, chlorophyll formation, and cellular energy production.
- 2. SECONDARY METABOLITE-MEDIATED SIGNAL MODULATION** - Secondary metabolites interact with plant signalling cascades, influencing coordinated auxin and cytokinin signalling and cellular differentiation processes at meristematic tissues.
- 3. VITAMIN-ENABLED CELLULAR STIMULATION** - Naturally occurring vitamins act as metabolic cofactors, promoting cell division, enzymatic reactions, and efficient physiological growth processes.
- 4. ANTIOXIDANT-BASED STRESS MITIGATION** - Antioxidant compounds reduce oxidative stress by scavenging reactive oxygen species, protecting cellular integrity during critical growth stages.
- 5. SYNERGISTIC BIOCHEMICAL GROWTH ENHANCEMENT** - Combined action of enzymes, metabolites, vitamins, and antioxidants improves nutrient utilization, plant vigor, yield expression, and crop quality.



CONTENT:
Neurospora crassa extracts

APPLICATION AND DOSAGE:

Seed Treatment:
2-3 gm/Kg

Soil:
250 gm/Acre or 625 gm/Ha

Foliar:
1 gm/L of water

Drone:
100 gm/Acre or 250 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
100 gm, 250 gm, 500 gm, 1 Kg,
5 Kg, 10 Kg, 20 Kg



Optimum Combination For Better Results



Highest 12 %
Orthosilicic Acid (OSA)
Effervescent Tablet

- Pest and Disease Barrier
- Prevents Lodging
- Improves Abiotic Stress resilience
- Reduces transpiration loss



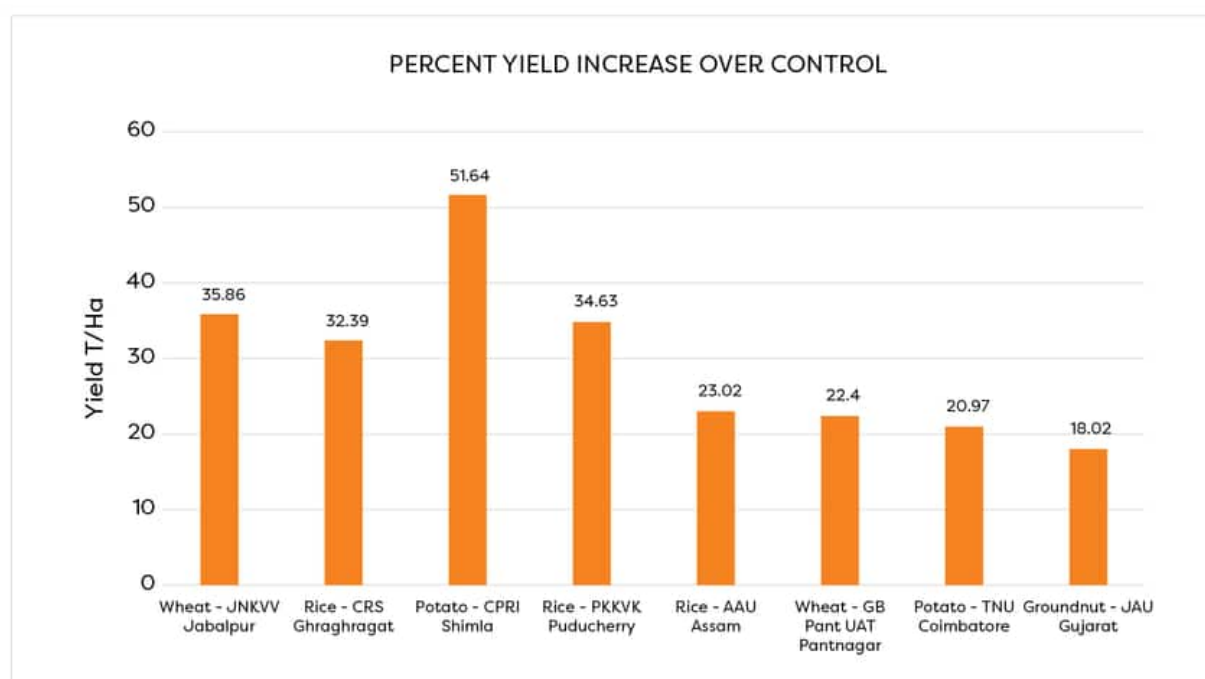
BENEFITS

- 1. ENHANCED ROOT DEVELOPMENT** - Promotes formation of white roots and tertiary roots, improving nutrient uptake and plant stability.
- 2. INCREASED PRODUCTIVE BRANCHES & TILLERS** - Encourages initiation of more branches and tillers, leading to higher productive growth and yield.
- 3. REDUCED INTERNODAL LENGTH** - Shortens the distance between nodes, increasing node density and supporting greater branch emergence.
- 4. IMPROVED PHOTOSYNTHESIS** - Enhances chlorophyll content and photosynthetic efficiency, resulting in stronger and healthier plant growth.
- 5. STRENGTHENED PLANT IMMUNITY** - Improves plant defense responses, increasing tolerance to biotic and abiotic stresses.



TRIAL DATA

TRIAL - 1 : UNIVERSITY-VERIFIED FIELD PERFORMANCE TRIALS OF VIGORE



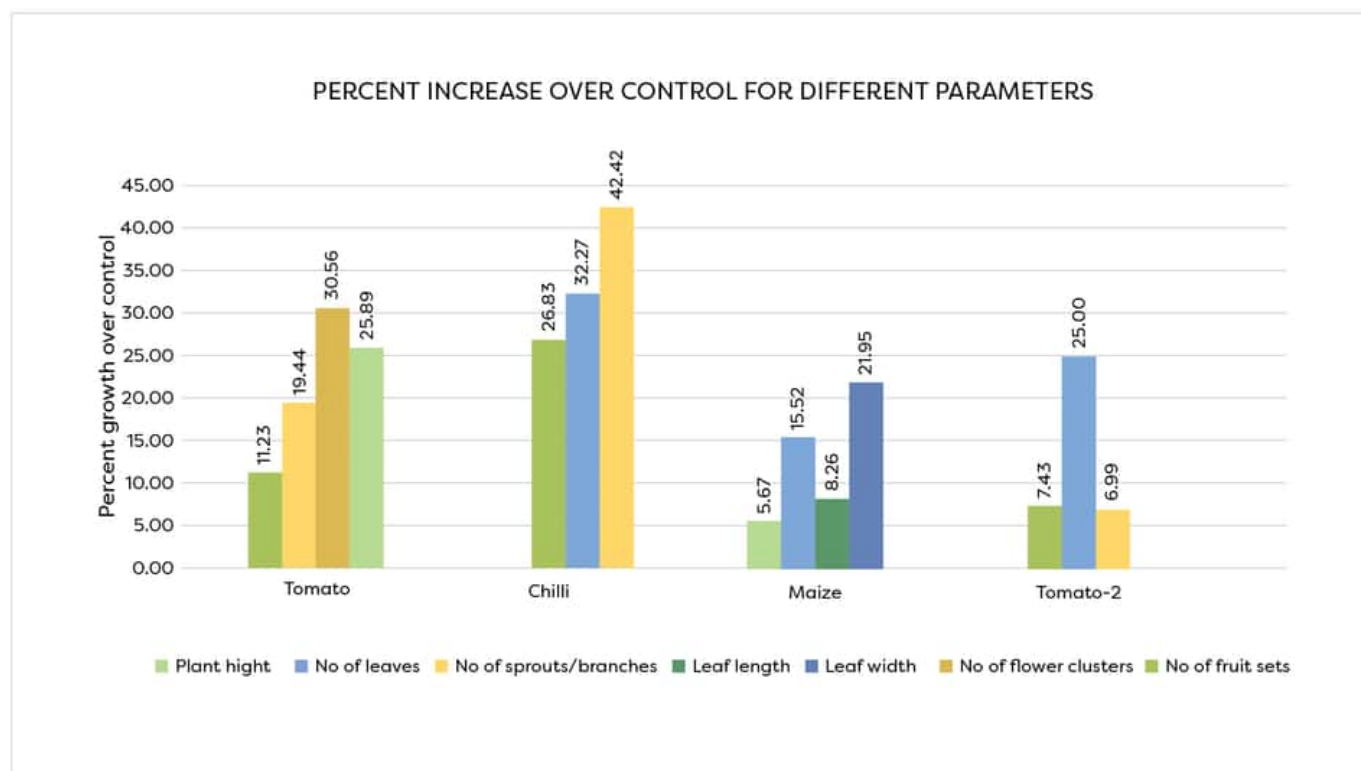
CONCLUSION:

Vigore has been extensively evaluated across 23 universities on a wide range of crops, and the consistently positive outcomes observed clearly validate its efficacy and performance under diverse agro-climatic conditions.

TRIAL - 2 : EFFECT OF FOLIAR APPLICATION OF VIGORE ON GROWTH AND YIELD OF VARIOUS CROPS.

Crops: Tomato, Chilli, Maize

Dosage: Foliar application of Vigore 250 gm/acre



CONCLUSION:

Foliar application of Vigore significantly enhanced growth and yield attributes across tomato, maize, and chilli compared to untreated control.

Overall improvements ranged upto 30% in tomato, 22% in maize, and 42% in chilli demonstrating consistent crop performance enhancement.

TRIAL PICTURES

ENHANCED MORPHOLOGICAL CHARACTERISTICS WITH APPLICATION OF VIGORE

Maize



Untreated

Treated

Chilli



Untreated

Treated

Tomato



Untreated

Treated

VIGORE GOLD

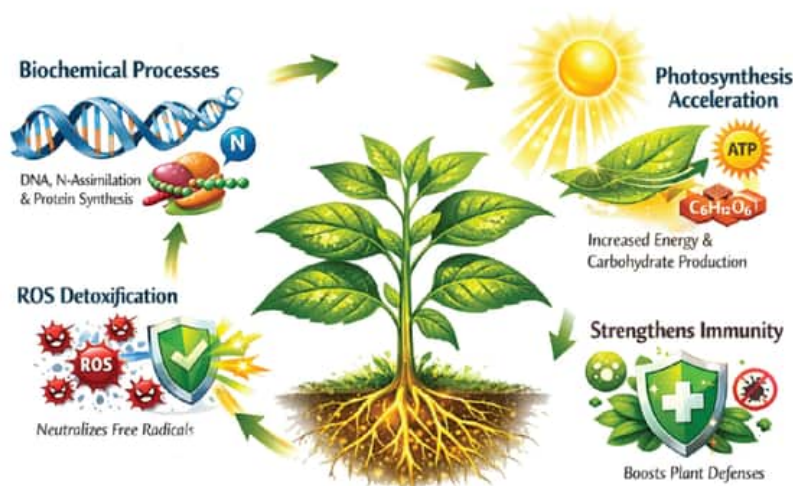
NEUROSPORA CRASSA EXTRACTS + MICRONUTRIENTS BASED PLANT GROWTH BIOSTIMULANT

Combined **MODE OF ACTION** along with **VIGORE (Neurospora Crassa Extracts)**

1. **BIOCHEMICAL PROCESSES** - Increases metabolic activities like DNA replication, N-assimilation, and protein synthesis for faster plant growth.
2. **PHOTOSYNTHESIS ACCELERATION** - Enhances photosynthetic efficiency, increasing energy production and carbohydrate formation.
3. **PLANT GROWTH PROMOTERS** - Activates enzyme systems that stimulate natural plant growth promoters for balanced development.
4. **ROS DETOXIFICATION** - Neutralizes reactive oxygen species (free radicals), protecting cells from oxidative stress.
5. **STRENGTHENS IMMUNITY** - Stimulates internal defence mechanisms, improving resistance against biotic and abiotic stresses.

Additional **BENEFITS** with Benefits of **VIGORE (Neurospora Crassa Extracts)**

1. **MICRONUTRIENT BOOST**
Improves micronutrient efficiency, supporting key physiological and biochemical plant functions.
2. **ENZYMATIC ACTIVITY BOOST**
Enhances enzyme activity required for plant defence, metabolism, and growth stimulation.
3. **IMPROVED PHOTOSYNTHESIS & CARBOHYDRATE SYNTHESIS**
Promotes chlorophyll development and efficient carbohydrate production for sustained energy supply.
4. **STRESS TOLERANCE & RECOVERY**
Reduces oxidative damage and supports faster recovery from environmental and biological stresses.
5. **IMPROVED GROWTH, YIELD & QUALITY**
Supports uniform growth, better vigour, and improved yield and produce quality.



CONTENT:
Neurospora crassa Extracts +
Micronutrients

APPLICATION AND DOSAGE:

Foliar:
1 gm/Ltr of water

Soil:
250 gm/Acre or 625 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
100 gm, 250 gm, 500 gm, 1 Kg,
5 Kg, 10 Kg, 20 Kg



VIGORE SMART

NEUROSPORA CRASSA EXTRACTS + INTELLIGENT ENDOPHYTES BASED FOLIAR PLANT GROWTH BIOFERTILIZER

Combined **MODE OF ACTION** along with **VIGORE (Neurospora Crassa Extracts)**

1. **ENDOPHYTE COLONIZATION** - Beneficial endophytes colonize plant tissues, improving internal resilience and plant-microbe interaction.
2. **NUTRIENT BOOST** - Promotes nitrogen fixation, IAA production, and zinc mobilization for improved nutrient availability.
3. **STRESS DEFENCE** - Activates metabolic pathways that help plants withstand abiotic stresses such as heat, drought, and chemical stress.
4. **ACTIVATES INDUCED SYSTEMIC RESISTANCE (ISR)** - ISR is mediated through signalling pathways involving jasmonic acid and ethylene, making plants more resistant to a wide range of pathogens.
5. **METABOLIC ACTIVATION** - Enhances cellular metabolism, supporting faster growth and improved physiological efficiency.

Additional **BENEFITS** with Benefits of **VIGORE (Neurospora Crassa Extracts)**

1. **NITROGEN & ZINC AID** - Improves nitrogen fixation and zinc mobilization, supporting balanced nutrition and plant vigor.
2. **NUTRIENT UTILIZATION** - Speeds up enzymatic activity for better absorption and utilization of essential nutrients.
3. **ENHANCE IMMUNITY** - Strengthens plant immunity, increasing resistance against pests and diseases.
4. **GROWTH STIMULATION** - Boosts photosynthesis and chlorophyll synthesis, resulting in vigorous and uniform growth.
5. **HIGHER YIELDS** - Enhances plant vigor and biomass, leading to increased yield and improved crop quality.



CONTENT:
Neurospora crassa Extracts +
An Innovative Gang of Unique
11 Intelligent Endophytic Bacteria

APPLICATION AND DOSAGE:

Foliar:
1 gm/Ltr of water

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
100 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, And 20 Kg



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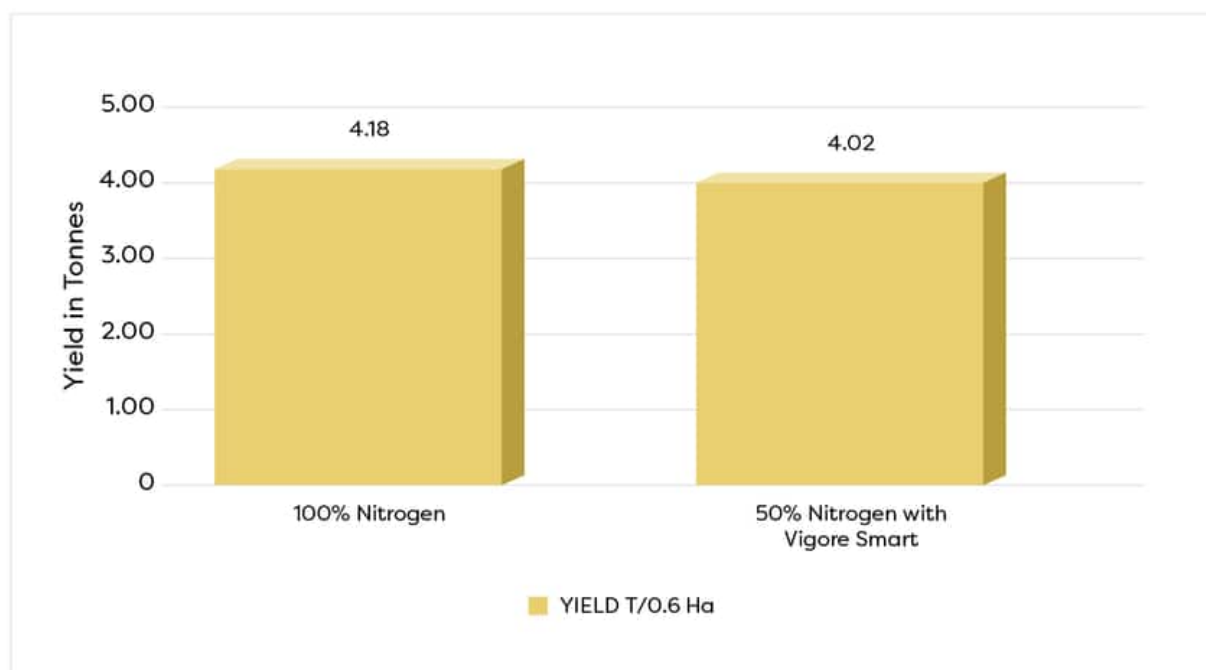
TRIAL DATA

TRIAL - 1 : YIELD COMPARISON AFTER NITROGEN FERTILIZER REDUCTION THROUGH THE USE OF VIGORE SMART.

Treatments:

T0: 1st dose: 132 Kg Saletrosan and
2nd dose: 132 Kg Saletrosan

T1: 1st dose: 132 Kg Saletrosan and
2nd dose: Bactosmart (0.625Kg/0.6 ha) + Vigore (2 g/l)



CONCLUSION

With only a single application, a 50% reduction in nitrogen resulted in an impressive yield performance, with just a 3.8% variation, clearly demonstrating that Geolife's biopreparations Vigore and Bactosmart can efficiently supplement mineral nitrogen while sustaining near-optimal productivity.

This strong performance highlights enhanced nutrient-use efficiency, significant cost savings, and an environmentally responsible approach to crop production. With increased application frequency and continuous use in farming systems, the performance potential is expected to strengthen further, supporting higher productivity and long-term soil health sustainability.

VIGORE RAJA



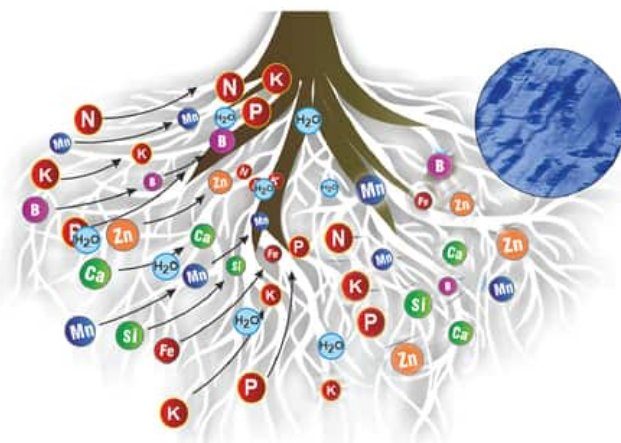
NEUROSPORA CRASSA EXTRACTS + MYCORRHIZA

Combined **MODE OF ACTION** along with **VIGORE (Neurospora Crassa Extracts)**

- DUAL MYCORRHIZAL SYMBIOSIS (ENDOMYCORRHIZA & ECTOMYCORRHIZA)** - Establishes internal and external root associations, significantly enhancing nutrient uptake efficiency and reinforcing root-soil connectivity.
- FORMATION OF ARBUSCLES, HARTIG NET & HYPHAL NETWORK** - Specialized exchange structures facilitate nutrient transfer, while expansive hyphal networks improve phosphorus, micronutrient, and moisture acquisition.
- ROOT ARCHITECTURAL ENHANCEMENT & FINE ROOT DEVELOPMENT** - Modulates phytohormonal balance to stimulate lateral branching, fine white root formation, increased root biomass, and superior nutrient foraging capacity.
- SOIL STRUCTURE STABILIZATION & RHIZOSPHERE CONDITIONING** - Hyphal matrices bind soil particles, enhancing aggregation, porosity, aeration, and moisture retention within the root zone.
- BIOCHEMICAL ACTIVATION OF THE RHIZOSPHERE** - Stimulates microbial consortia and enzymatic processes that solubilize and mobilize nutrients, improving their bioavailability and plant uptake efficiency.

Additional **BENEFITS** with Benefits of **VIGORE (Neurospora Crassa Extracts)**

- BIOLOGICAL ROOT NETWORK EXPANSION** - Extends the functional root system through fungal associations, enhancing macro- and micronutrient absorption and optimizing fertilizer efficiency.
- STRONGER ESTABLISHMENT AND HIGHER PRODUCTIVITY** - Increases effective absorptive surface area, supporting robust plant growth, improved vigor, and enhanced yield potential.
- IMPROVED ABIOTIC AND BIOTIC STRESS RESILIENCE** - Enhances access to subsoil water and nutrients while reinforcing plant tolerance against soil-borne stresses and pathogens.
- OPTIMIZED SOIL-PLANT INTERFACE & SOIL VITALITY** - Promotes beneficial microbial interactions and organic matter dynamics, improving soil structure and rhizosphere performance.
- LONG-TERM CROP STABILITY AND PERFORMANCE** - Ensures sustained nutrient supply and plant adaptability under fluctuating environmental and climatic conditions.



CONTENT:
Neurospora Crassa Extract +
Mycorrhiza

APPLICATION AND DOSAGE:

Soil:
250 gm/Acre or 625 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
100 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg



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ENCAPSULATED MICROBIAL BIOFERTILIZERS

ENCAPSULATED MICROBIAL BIOFERTILIZERS ARE A BLEND OF BENEFICIAL MICROBES, SUCH AS BACTERIA OR MYCORRHIZA, WHICH SYNERGISTICALLY WORK TO IMPROVE SOIL HEALTH AND FERTILITY.

They also enhance nutrient absorption, boost plant growth, and promote sustainable farming by reducing dependence on chemical fertilizers and increasing crop yield.

AGRO SOLUTIONS

- *Bactogang 24*
- *Bactosmart*
- *Nanorrhiza (Gel)*
- *Rrhiza-Tech*
- *Decompomax*

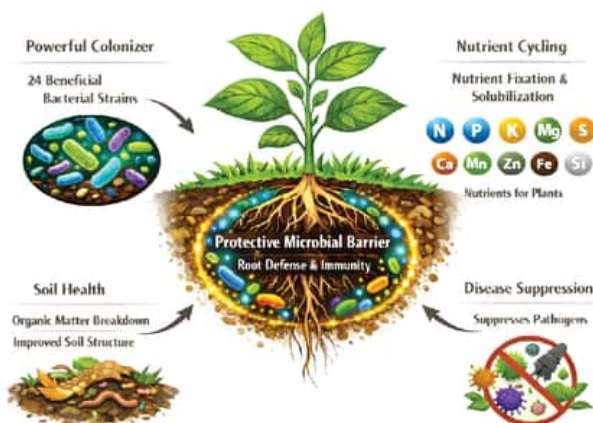
BACTOGANG 24



NEUROSPORA CRASSA EXTRACTS + MYCORRHIZA

MODE OF ACTION

- POWERFUL COLONIZER** - Bactogang 24 delivers 24 beneficial bacterial strains that rapidly multiply, effectively colonize the soil, and activate microbial populations around plant roots.
- NUTRIENT CYCLING** - Converts unavailable and fixed forms of nutrients into plant-available forms through biological fixation, solubilization, and mobilization processes, ensuring steady nutrient supply.
- SOIL HEALTH** - Enhances soil fertility by accelerating organic matter decomposition, improving soil structure, increasing microbial diversity, and promoting better aeration and aggregation.
- DISEASE SUPPRESSION** - By colonizing the rhizosphere, it competitively inhibits and suppresses soil-borne pathogens, reducing disease pressure and improving plant resilience.
- RHIZOSPHERE PROTECTION & MICROBIAL DEFENSE ACTIVATION** - Creates a protective microbial barrier around roots, enhancing plant immunity and suppressing harmful soil pathogens effectively.



24 BENEFICIAL BACTERIA

BACTOGANG 24 - AN INNOVATIVE CONSORTIUM OF 24 BENEFICIAL MICROBES DESIGNED FOR SOIL AND



CONTENT:
24 Beneficial Encapsulated Live Bacterial Strains

APPLICATION AND DOSAGE:

Soil:
500 gm or 500 ml/Acre
& 1.25 Kg or 1.25 Ltr/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm, 100 gm, 250 gm,
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg

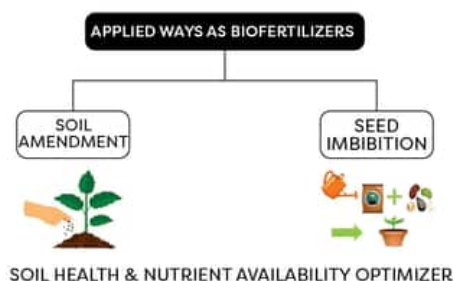
LIQUID FORM:
100 ml, 250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

CUSTOMIZATION:
Customized formulations available in liquid and powder form



BENEFITS

- NUTRIENT MAXIMIZER** - Enhances nutrient fixation, solubilization, and mobilization for efficient plant uptake.
- GROWTH BOOSTER** - Secretes growth-promoting compounds that improve plant vigor, vitality, and yield potential.
- PATHOGEN SUPPRESSOR** - Helps suppress soil-borne phytopathogens, strengthening plant defense systems.
- SOIL ENHANCER** - Improves soil fertility, structure, moisture retention, and porosity, heavy metal detoxification.
- pH STABILIZER** - Maintains soil pH balance by secreting organic acids and increasing organic carbon content.



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Optimum Combination For Better Results

Vigore Raja	Carbon Stones
 Neurospora crassa Extracts + Mycorrhiza - Improves soil physical properties - Enhances nutrient availability uptake - Tolerance to stress and pathogens	 Soil Organic Carbon Recharger 35 % Activated Carbon - Activates soil biology and microbial activity - Improves nutrient retention and soil fertility - Enhances root growth and sustained crop performance

TRIAL DATA

A. HEAVY METALS ANALYSIS REPORT.

NAME OF THE HEAVY METAL	CONTROL (WITHOUT BACTERIAL CONSORTIUM)	TREATED (WITH BACTERIAL CONSORTIUM)
Arsenic (As)	12.7 mg/kg	11.6 mg/kg
Barium (Ba)	63.8 mg/kg	55.6 mg/kg
Chromium (Cr)	13.6 mg/kg	10.9 mg/kg
Nikel (Ni)	12.3 mg/kg	8.2 mg/kg
Lead (Pb)	180 mg/kg	130 mg/kg
Mercury (Hg)	< 0.20 mg/kg	< 0.20 mg/kg

CONCLUSION

The application of the bacterial consortium significantly reduced heavy metal concentrations in soil, with decreases of 8.7% (As), 12.9% (Ba), 19.9% (Cr), 33.3% (Ni), and 27.8% (Pb) compared to control.

These reductions indicate effective microbial immobilization, biosorption, and possible pH-mediated stabilization mechanisms, demonstrating the consortium's strong potential for heavy metal mitigation and soil remediation.

B. SOIL PROPERTIES

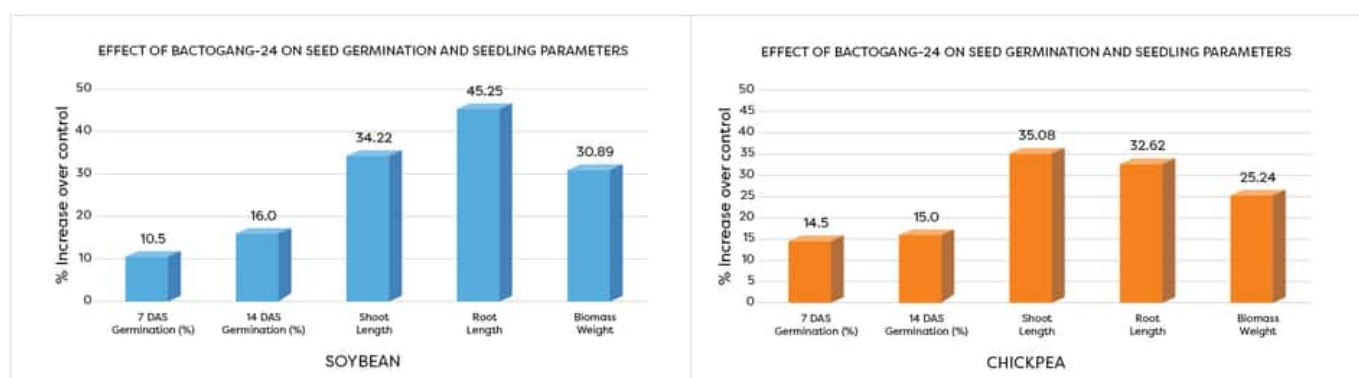
PARAMETERS	CONTROL (WITHOUT BACTERIAL CONSORTIUM)	TREATED (WITH BACTERIAL CONSORTIUM)
Organic Carbon	1.20 %	1.25 %
Organic Matter	2.07%	2.16 %
Cation Exchange Capacity	7.68	7.85

CONCLUSION

The bacterial consortium treatment enhanced soil quality, with Organic Carbon increasing by 4.2%, organic matter by 4.3%, and CEC by 2.2%.

The improvement in CEC and SOC demonstrates better nutrient retention capacity, indicating enhanced soil chemical properties and improved nutrient availability for plant growth.

C. IMPACT OF BACTOGANG-24 ON SEED GERMINATION AND EARLY SEEDLING VIGOUR IN SOYBEAN AND CHICKPEA



CONCLUSION:

Bactogang-24 markedly enhanced early crop performance, increasing germination by 10.50% (7 DAS) and 16.00% (14 DAS) in soybean and 14.50% (7 DAS) and 15.00% (14 DAS) in chickpea. It further improved shoot length by 34.22% (soybean) and 35.08% (chickpea), root length by 45.25% (soybean) and 32.62% (chickpea), and biomass by 30.89% (soybean) and 25.24% (chickpea) over control, demonstrating strong enhancement of root architecture and early plant vigor for better crop establishment.

TRIAL PICTURES

Differences in seed germination and seedling vigour of Chickpea



D. IMPACT OF BACTERIAL CONSORTIUM ON SOIL BIOLOGICAL PROPERTIES

PARAMETERS	CONTROL (WITHOUT BACTERIAL CONSORTIUM)	TREATED (WITH BACTERIAL CONSORTIUM)
Microbiological Efficiency	344.138 classified as "high"	425.838 classified as "very high"
Functional Biodiversity	63.0 classified as "high"	85.6 classified as "very high"
Community Balance	50.2 classified as "moderate"	79.0 classified as "high"

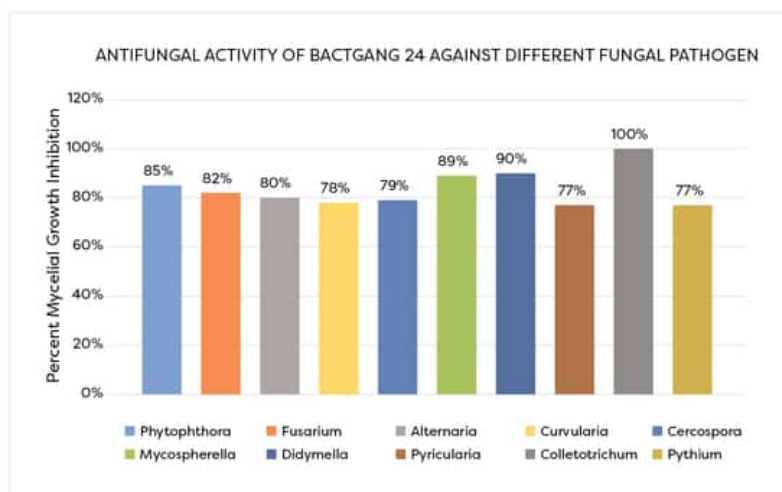
CONCLUSION

Application of the bacterial consortium significantly enhanced soil biological performance, with microbiological efficiency increasing by 23.7%, functional biodiversity by 35.9%, and community balance by 57.4% over control.

E. IN VITRO CONDITION

ANTIFUNGAL ACTIVITY OF BACTGANG 24 AGAINST DIFFERENT FUNGAL PATHOGEN.

Location: Geolife Research Farm, Pune



TRIAL PICTURES

1. Antifungal activity of Bactogang 24 against Curvularia



2. Antifungal activity of Bactogang 24 against Sclerotium



3. Antifungal activity of Bactogang 24 against Phytophthora



4. Antifungal activity of Bactogang 24 against Alternaria



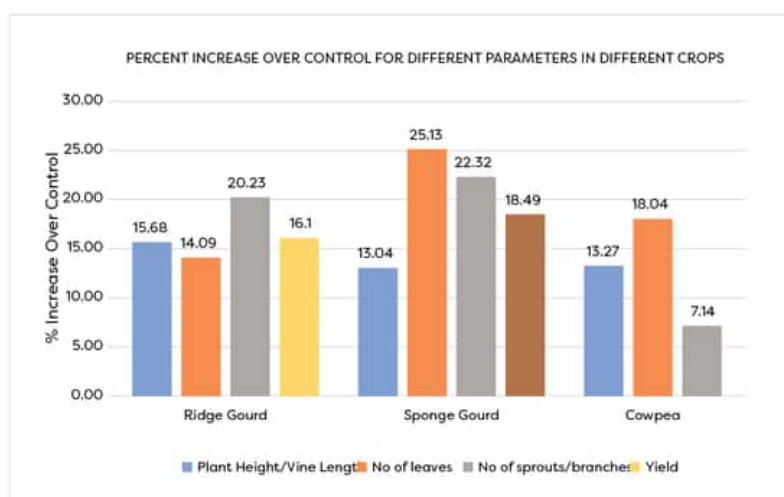
CONCLUSION:

Bactogang-24 showed strong and broad-spectrum antifungal activity, providing high mycelial growth inhibition ranging from 77% -100%. against multiple fungal pathogens, confirming its effectiveness as a reliable biofungicide for disease management.

F. EFFICACY STUDY OF BACTOGANG-24 ON GROWTH AND DEVELOPMENT IN RIDGE GOURD, SPONGE GOURD, COWPEA AND MAIZE

Location: Jalgaon, Maharashtra, India

Dosage: Bactogang 24 (500 ml/Acre)



CONCLUSION:

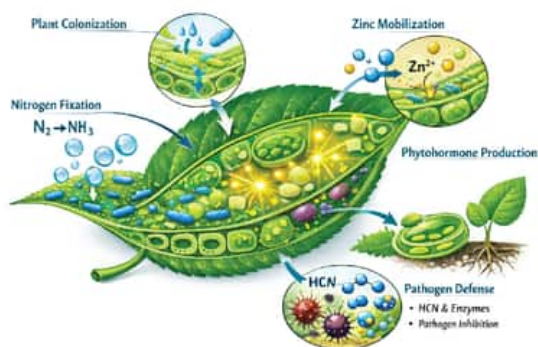
Bactogang-24 improved morphological parameters ranging from 18% - 25 % and yield parameters from 16% - 18% over control.

BACTOSMART

AN INNOVATIVE CONSORTIUM OF INTELLIGENT ENDOPHYTES: FOLIAR PLANT GROWTH BIOFERTILIZER

MODE OF ACTION

1. **PLANT COLONIZATION** - Foliar-applied endophytes enter through stomata and cuticular openings, colonizing leaf tissues and forming beneficial symbiotic associations internally.
2. **NITROGEN FIXATION** - Leaf-colonizing microbes fix atmospheric nitrogen on the phyllosphere surface, converting it into ammonia that supports immediate foliar nutrition.
3. **ZINC MOBILIZATION IN PLANTS** - Endophytes in leaf apoplastic spaces release organic acids and chelators, converting bound zinc into absorbable Zn^{2+} within mesophyll tissues.
4. **SECRETES PHYTOHORMONES THAT PROMOTE GROWTH** - Foliar microbes produce auxins, gibberellins, and cytokinins, enhancing chlorophyll activity, leaf expansion, and overall photosynthetic efficiency.
5. **STIMULATES RESISTANCE AGAINST PATHOGENS (HCN & HYDROLYTIC ENZYMES)** - Surface-colonizing microbes release HCN and hydrolytic enzymes that inhibit foliar pathogens, strengthening leaf defense responses and reducing infections.



11 UNIQUE BENEFICIAL ENDOPHYTES

BACTOSMART IS AN INNOVATIVE GANG OF 11 INTELLIGENT ENDOPHYTIC BACTERIA DESIGNED TO NURTURE YOUR PLANTS FROM THE INSIDE OUT!

BENEFITS

1. **NUTRIENT POWERHOUSE** - Enhances foliar nitrogen fixation and zinc mobilization, improving nutrient efficiency and supporting higher crop productivity.
2. **IMMUNITY BOOSTER** - Produces bioactive metabolites and protective enzymes that suppress foliar pathogens and strengthen plant defence systems.
3. **PLANT GROWTH REGULATION** - Releases phytohormones that regulate leaf expansion shoot development, and balanced vegetative growth.
4. **GROWTH PROMOTION ENHANCER** - Stimulates chlorophyll synthesis and metabolic activity, promoting vigorous growth and improved biomass accumulation.
5. **ROOT & WATER OPTIMIZER** - Improves overall plant physiology, enhancing nutrient translocation and maintaining optimal water balance under stress conditions.



CONTENT:
Unique 11 Beneficial Endophytic Bacterial Strains

APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
100 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
100 ml, 250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC

CUSTOMIZATION:
Customized formulations available in
liquid and powder form



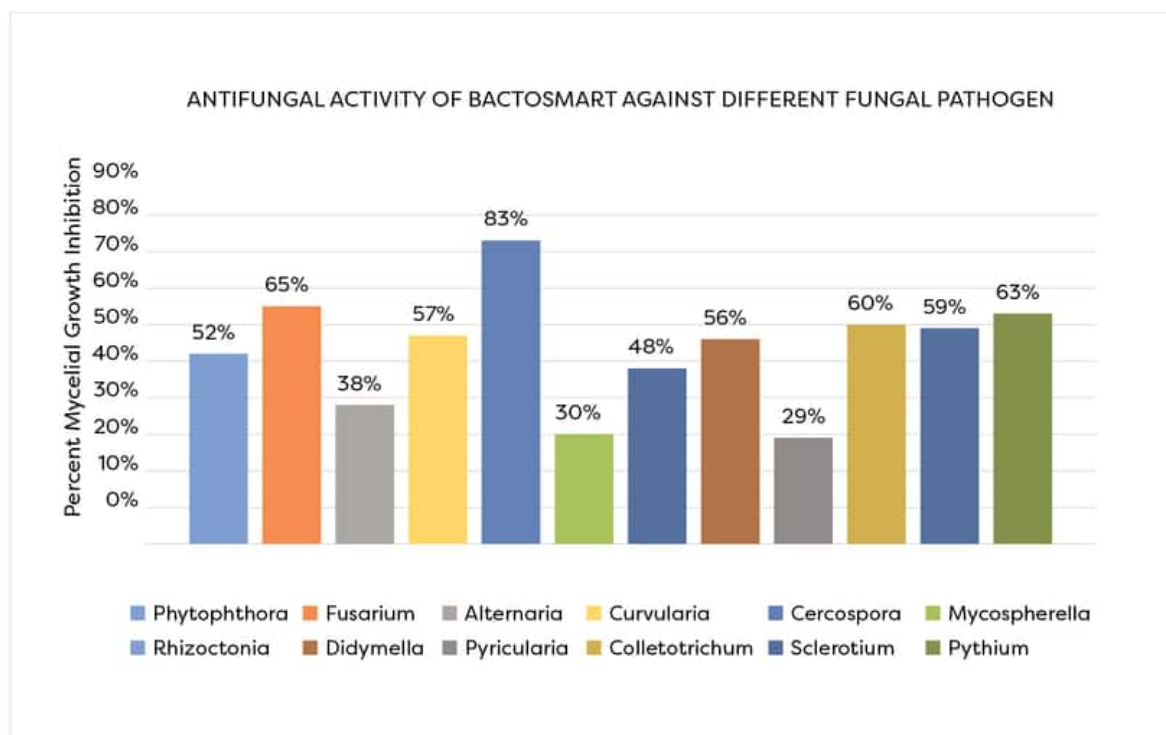
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TRIAL DATA

TRIAL - 1 : IN VITRO TRIAL DATA

ANTIFUNGAL ACTIVITY OF BACTOSMART AGAINST DIFFERENT FUNGAL PATHOGENS.

LOCATION: Geolife Research Farm, Pune



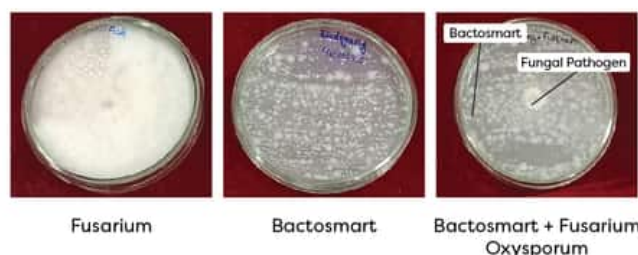
TRIAL PICTURES

COMPARATIVE DIFFERENCE OF BACTOSMART APPLICATION ON DIFFERENT FUNGAL PATHOGEN IN IN-VITRO CONDITION.

1. Antifungal activity of Bactosmart against Colletotrichum



2. Antifungal activity of Bactosmart against Fusarium



3. Antifungal activity of Bactosmart against *Cercospora*



4. Antifungal activity of Bactosmart against *Pythium*



5. Antifungal activity of Bactosmart against *Sclerotium*



6. Antifungal activity of Bactosmart against *Curvularia*



7. Antifungal activity of Bactosmart against *Didymella*



8. Antifungal activity of Bactosmart against *Phytophthora*



9. Antifungal activity of Bactosmart against *Alternaria*



10. Antifungal activity of Bactosmart against *Rhizoctonia*



11. Antifungal activity of Bactosmart against *Pyricularia*



CONCLUSION

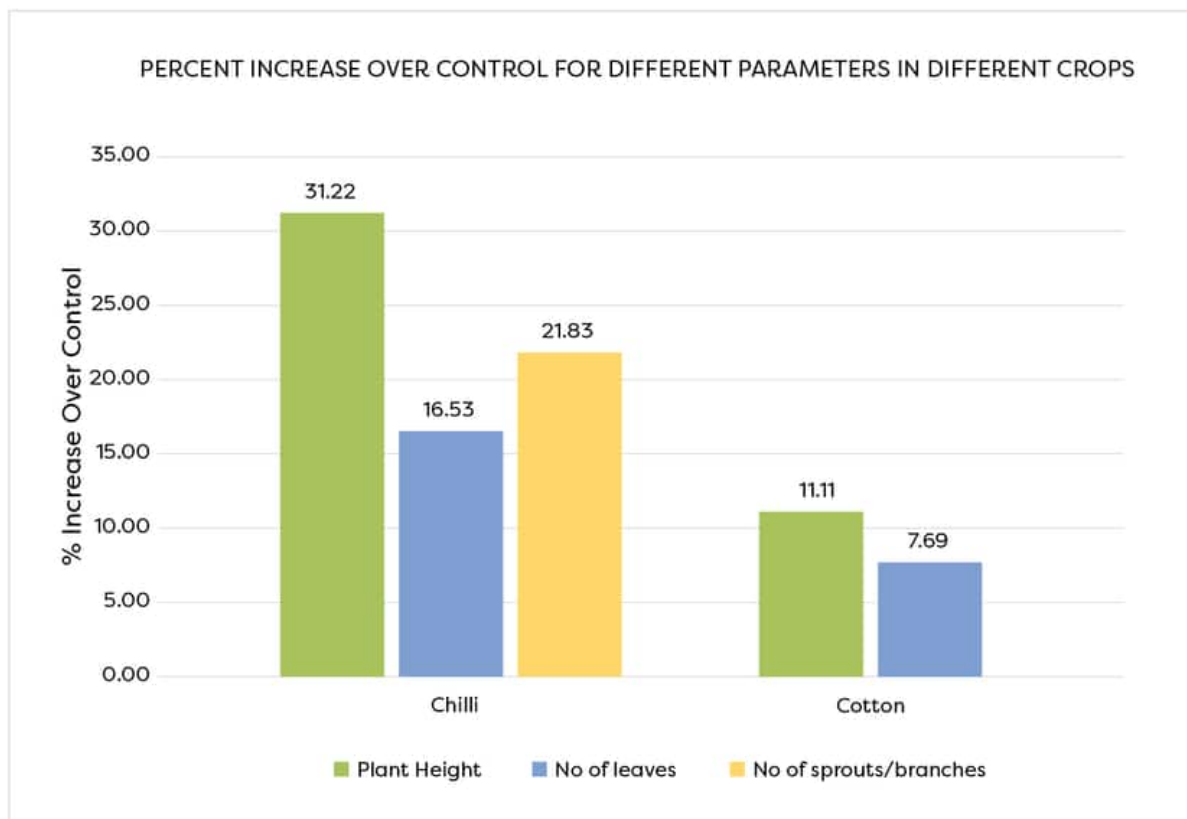
Bactosmart demonstrated strong antifungal activity against a wide range of fungal pathogens showing inhibition ranging from 29% - 83%. Overall, the results confirm that Bactosmart provides broad-spectrum fungal suppression with effective control across multiple pathogens.

FIELD TRIAL DATA

TRIAL - 2 : EFFECT OF FOLIAR APPLICATION OF BACTOSMART ON GROWTH AND YIELD OF VARIOUS CROPS.

Location: Jalgaon, Maharashtra (India)

Dosage: Foliar application of Bactosmart @ 500 ml /Acre



CONCLUSION

The treatment demonstrated significant improvement in key growth parameters across different crops, with percentage increases over control reaching from 7.69% to 31.22% in chilli and Cotton, which confirm consistent growth enhancement across crops, indicating strong agronomic performance and reliable field-level efficacy under treated conditions.

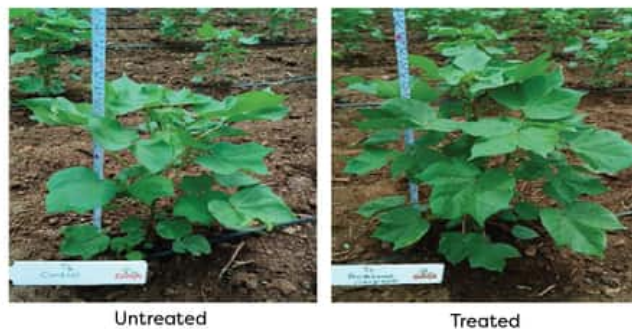
FIELD TRIAL PICTURES

1. Comparative difference of Bactosmart application on Chilli



Plant growth differences at 21 days after application of products

2. Comparative difference of Bactosmart application on Cotton



Plant growth differences at 15 days after application of products

NANORRHIZA (GEL)

CONCENTRATED MYCORRHIZAL GEL

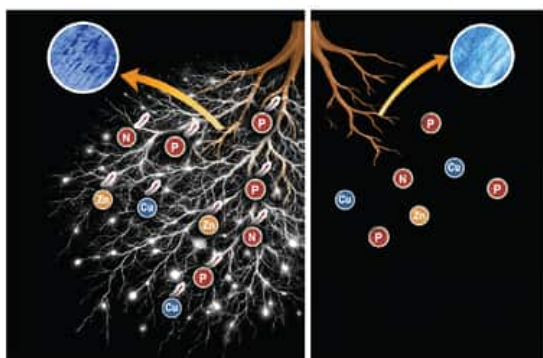
MODE OF ACTION

- DUAL MYCORRHIZAL ROOT COLONIZATION (ENDO & ECTO ASSOCIATION)** - Endo and ectomycorrhiza colonize roots internally and externally, enhancing nutrient absorption and strengthening root-soil interaction efficiency.
- HARTIG NET, ARBUSCULAR NETWORK AND HYPHAL EXTENSION** - Arbuscules and Hartig net structures enable efficient nutrient exchange, while extended hyphae improve phosphorus, micronutrient, and water uptake.
- ENHANCED ROOT MORPHOGENESIS AND WHITE ROOT PROLIFERATION** - Stimulates hormonal activity, promoting lateral roots, white root development, increased root surface area, and improved nutrient acquisition.
- SOIL AGGREGATION AND RHIZOSPHERIC STRUCTURAL IMPROVEMENT** - Fungal hyphae bind soil particles, improving aggregation, aeration, water retention, and creating a favorable root-zone environment.
- RHIZOSPHERE BIOCHEMICAL ACTIVATION AND NUTRIENT MOBILIZATION** - Enhances microbial activity and enzyme production, mobilizing nutrients, increasing availability, and improving overall nutrient-use efficiency in plants.

BENEFITS

- ACTS AS ROOT EXTENSION FOR ENHANCED NUTRIENT UPTAKE** - Functions as an extended root system, improving macro and micronutrient absorption and fertilizer utilization efficiency.
- IMPROVED PLANT GROWTH & YIELD** - Expands effective root surface area, promoting stronger plant establishment, vigorous growth, and higher productivity.
- ENHANCED STRESS TOLERANCE & PLANT IMMUNITY** - Facilitates access to deeper soil moisture and nutrients while strengthening plant defense against soil-borne pathogens.
- IMPROVED SOIL-ROOT INTERACTION & SOIL HEALTH** - Stimulates beneficial microbial activity and organic matter dynamics, improving rhizosphere fertility and soil structure.
- SUSTAINABLE CROP PERFORMANCE** - Supports consistent nutrient availability and plant resilience under variable environmental and climatic conditions.

Note: Available in Endomycorrhiza and Ectomycorrhiza Formulation



CONTENT:
Mycorrhiza

APPLICATION AND DOSAGE:

Soil:
10 gm/Acre or 25 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
10 gm, 25 gm, 500 gm, 1 Kg,
5 Kg, 10 Kg, 20 Kg



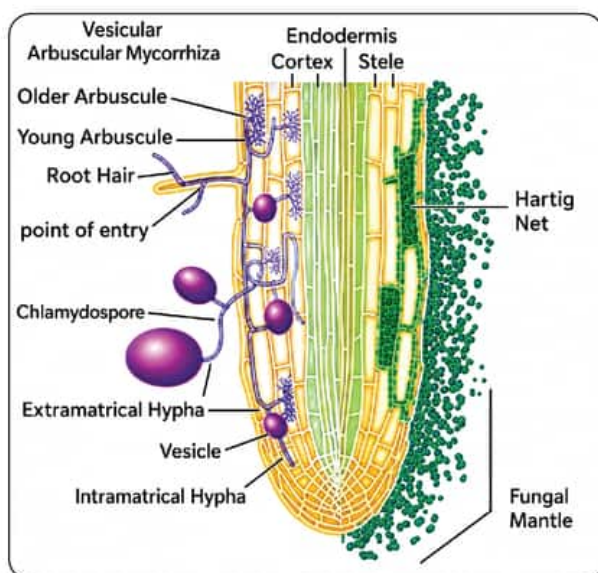
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RRHIZATECH

CONCENTRATED MYCORRHIZAL TECHNICAL POWDER

TECHNICAL INFORMATION OF RRHIZATECH

1. **Highly Concentrated Technical Grade** - Rhiza-Tech is a pure, technical-grade mycorrhizal powder with high spore density and superior biological potency.
2. **TECHNICAL VAM INOCULANT** - Developed as a base technical material of VAM (Vesicular Arbuscular Mycorrhiza), suitable for use in a wide range of downstream formulations.
3. **FORMULATION BASE MATERIAL** - Ideal for manufacturing granular and powder bio-fertilizers, as well as seed and fertilizer coating products.
4. **ADVANCED TECHNOLOGY INTEGRATION** - Manufactured using Geolife's proprietary Encapsulated Live Microbes (ELM) Technology, ensuring protection and stability of live spores.
5. **HIGH VIABILITY & PERFORMANCE** - Delivers excellent microbial viability, controlled release, and consistent performance in finished formulations.
6. **SUPERIOR INFECTIVITY POTENTIAL** - Contains highly infective mycorrhizal strains that rapidly colonize plant roots, enabling maximum nutrient availability and efficient nutrient uptake by plants.



PARAMETERS	SPECIFICATIONS
Appearance	Free Flowing Fine Powder
Colour	Grey
Spores per gram	Minimum 33,000
Total Viable Infective Propagules (I.P.) per gram	Minimum 100,000
Formulation Available	Granular, Powder, Liquid



CONTENT:
Mycorrhiza

APPLICATION AND DOSAGE:

Soil:
2.5-4 gm/Acre or 7-10 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
500 gm, 1 Kg, 5 Kg,
10 Kg, 20 Kg



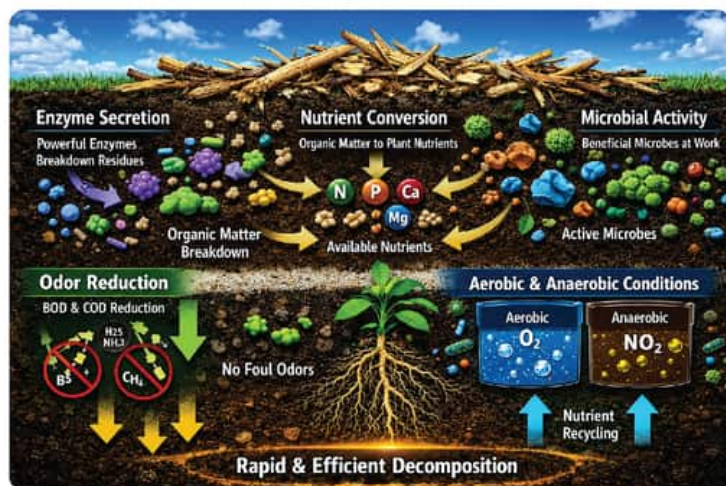
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DECOMPO MAX

ORGANIC WASTE DECOMPOSER: A POWERFUL BIO-FORMULATION

MODE OF ACTION

- 1. ENZYME SECRETION** - Releases powerful enzymes that break down complex organic compounds such as cellulose, hemicellulose, lignin, and proteins.
- 2. NUTRIENT CONVERSION** - Converts organic matter into plant-available nutrients, enhancing soil fertility and supporting healthier crop growth.
- 3. MICROBIAL ACTIVITY** - Activates beneficial microbes that accelerate residue breakdown and improve nutrient recycling in the soil.
- 4. REDUCE UNPLEASANT ODOUR** - Enzymatic action lowers BOD and COD levels, preventing foul-smelling gases during composting and decomposition.
- 5. FLEXIBLE CONDITIONS** - Functions effectively under both aerobic and anaerobic environments, ensuring stable decomposition without process interruption.



BENEFITS

- 1. NUTRIENT RECYCLING AND SOIL FERTILITY** - Decomposition releases nutrients into soil, improving structure, water-holding capacity, and microbial activity, supporting healthier crops and long-term fertility overall.
- 2. CARBON SEQUESTRATION** - Decomposition forms stable organic matter that stores carbon in soil, reducing CO₂ release and supporting climate balance.
- 3. WASTE MANAGEMENT** - Decomposition converts dead organic matter into simpler materials, preventing waste buildup and maintaining ecosystem cleanliness and nutrient cycling.
- 4. ENHANCED SOIL FERTILITY** - Decomposition releases plant-available nutrients, enriching soil fertility, improving productivity, supporting sustained crop growth, and maintaining long-term soil health.
- 5. SUPPORTS WASTE DECOMPOSITION** - Speeds up breakdown of crop residues and organic waste, ensuring faster compost maturity and cleaner field conditions.



CONTENT:
Unique 10 Encapsulated Beneficial Bacterial and Fungal Strains

APPLICATION AND DOSAGE:

Organic Waste:
40 gm/1000 Kg waste

Open Field:
400 gm/Acre
1 Kg/Ha

Kitchen Waste:
2 gm/10 Kg waste

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm, 100 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg



BIO NANO TECHNOLOGY FERTILIZERS AND BIOFERTILIZERS

BIO NANO TECHNOLOGY FERTILIZERS USE ADVANCED FORMULATIONS TO ENHANCE NUTRIENT DELIVERY, IMPROVING ABSORPTION EFFICIENCY AND REDUCING WASTE.

By providing nutrients in a more Bioavailable Form, these fertilizers promote faster plant growth, increase crop yield, and minimize environmental impact, offering a sustainable solution for modern agriculture.

LOW
DOSAGE

LOW
RESIDUE

LOW
COST

AGRO SOLUTIONS

- *Nanofert Series*
- *Nanomeal Series*
- *Nano Micronutrients*
- *Nano Humic*
- *Nano Amino*
- *Nano Seaweed*
- *Nano PGP Mix*

GIVE YOUR CROPS *ROCKET SPEED*

POWERED WITH BNT TECHNOLOGY PUREST FORM OF NPK

Our advanced BNT plant cell technology gives NANO FERT 5 times faster results compared to other Water

The nutrients are absorbed 5 times faster through the leaves and roots. Rocket Speed Performance.

LOW DOSAGE MAGIC OF 20%

Geolife NANO Fert NPK only needs 20% of the dosage of conventional water soluble fertilizers

NANOFERT SERIES



100% SOLUBLE

Nanofert is fully water-soluble, ensuring quick absorption and distribution throughout the plant.

EFFICIENT & CLEAN

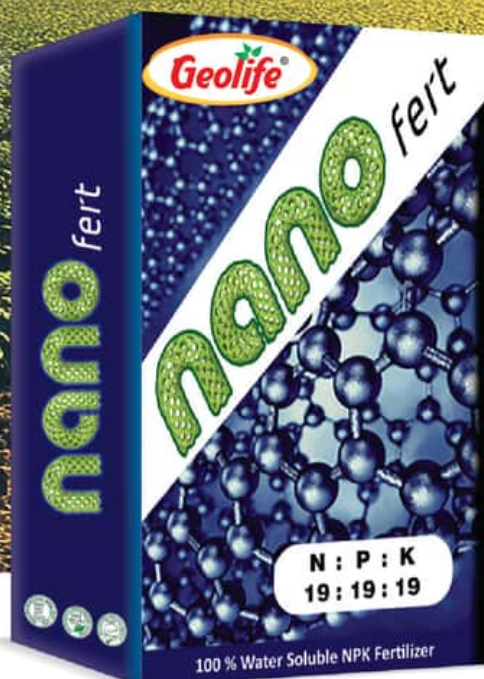
Works effectively at low doses, with minimal residue and is chloride-free.

RAPID RECOVERY

100% Water Soluble Fertilizer

Spray and Drip Irrigation

powered by BNT



RAPID ABSORPTION

It is efficiently absorbed and assimilated by the plants due to presence of Microbial extracts.

MICROBIAL EXTRACTS FORTIFICATION

Nutrients are fortified with crop stage specific microbial extracts which increases



Application and Dosage:

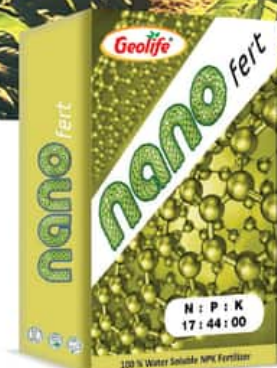
Foliar Application: 200 gm per acre / 500 gm per hectare

Soil Application: 20% of conventional WSF

Packing Options available: Powder Form

200 gm 250 gm 500 gm 1 Kg 5 Kg

Nanofert
19:19:19
Vegetative Stage



Nanofert
17:44:00
Flowering Stage

V VEGAN O ORGANIC BN BIONANO N NANO

SPEED

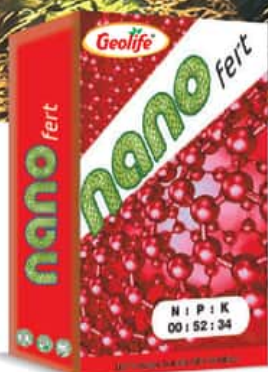


N P K				
19:19:19	17:44:00	00:52:34	13:00:45	00:00:50

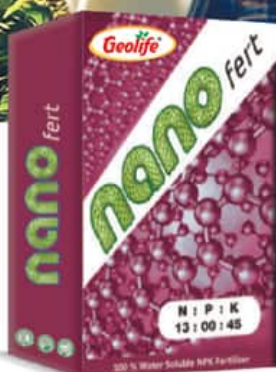
Nano Fert

“Give Your Crop
Rocket Speed!”

5x More
Effect
WITH BNT TECHNOLOGY



Nanofert
00:52:34
Post Bloom Stage



Nanofert
13:00:45
Fruiting Stage

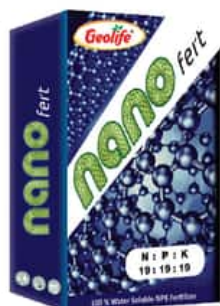


Nanofert
00:00:50
Fruit Development Stage

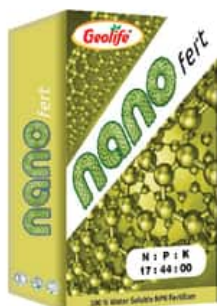
NANOFERT SERIES



BIO NANO TECHNOLOGY BASED WATER SOLUBLE FERTILIZERS



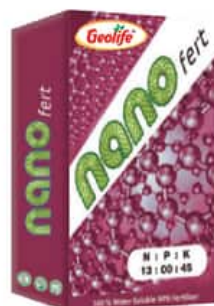
NANOFERT
19:19:19
Vegetative Stage



NANOFERT
17:44:00
Flowering Stage



NANOFERT
00:52:34
Post Bloom Stage



NANOFERT
13:00:45
Fruiting Stage



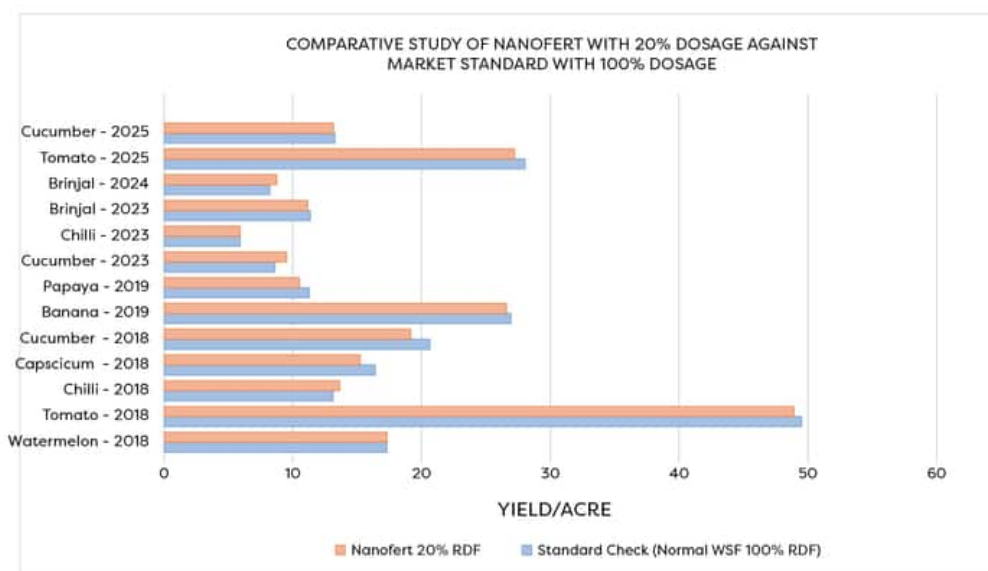
NANOFERT
00:00:50
Fruit Development Stage



TRIAL DATA

TRIAL - 1: PERFORMANCE OF NANOFERT WITH STANDARD WATER SOLUBLE FERTILIZER FOR YIELD OF DIFFERENT CROPS

LOCATION: Geolife Research Farm, Pune



CONTENT:
Stage Specific Nutrients + Unique
Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
200 gm/Acre or 500 gm/Ha

Soil:
20 % of Conventional WSF

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
200 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg



CONCLUSION

Field results indicate that performance of Nanofert is at par to the market standard, even when applied at a significantly lower dosage (20%), and in some cases higher yield response was observed. This demonstrates high nutrient use efficiency, enabling growers to achieve comparable yield and crop performance with reduced input dosage, supporting economical and sustainable cultivation practices.



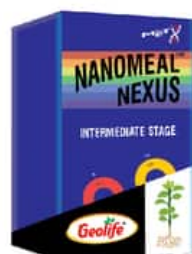
NANOMEAL SERIES



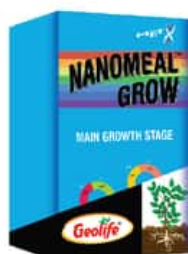
BIO NANO TECHNOLOGY BASED WATER SOLUBLE FERTILIZERS WITH TRACE ELEMENTS



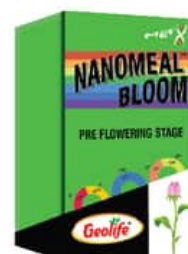
NANOMEAL START



NANOMEAL NEXUS



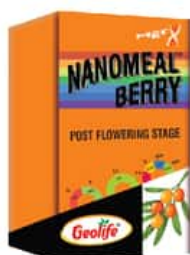
NANOMEAL GROW



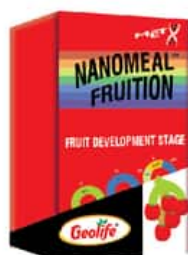
NANOMEAL BLOOM



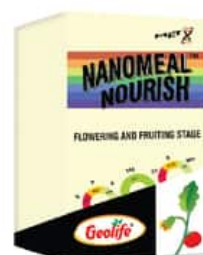
NANOMEAL FLORA



NANOMEAL BERRY



NANOMEAL FRUITION



NANOMEAL NOURISH

NANOMEAL SERIES	N	P	K	Ca	Mg	Fe	Mn	Zn	Mo	B	Cu	S
START	14	14	14	2	2	1	1	1	0.02	0.2	1	
NEXUS	24			14								
GROW	10	50			2							2
BLOOM	13	42			2		1	1				
FLORA		40	25		2		1	1		0.4		
BERRY	10		36	2		1	1		0.02	0.4		
FRUITION			40	2			1	1		0.8		
NOURISH	10	40	10		2			1		0.2		

CONTENT:
SStage Specific Nutrients + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
250 gm/Acre or 625 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
250 gm, 500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



BENEFITS

- STAGE-SPECIFIC BALANCED NPK WITH TRACE ELEMENTS** - Nanomeal series (Start, Nexus, Grow, Bloom, Flora, Berry, Fruition, Nourish) is fully water-soluble and designed for specific crop stages to deliver balanced nutrition.
- LOW RESIDUE, LOW DOSAGE - HIGH EFFICACY** - Bio Nano-based nutrient delivery improves absorption and utilization, so effective results are achieved with very low application rates.
- FASTER PLANT RESPONSE & UNIFORM GROWTH** - Quick nutrient uptake supports balanced vegetative growth and better crop uniformity across the field.
- IMPROVES FLOWERING, FRUIT SET & YIELD QUALITY** - Supports critical reproductive stages by enhancing flowering strength, fruit setting, and overall fruit size, colour, and uniformity.
- ECO-FRIENDLY FOLIAR NUTRITION** - Boosts nutrient assimilation through foliar application, ensuring stronger plant performance and overcome nutrient deficiencies.



NANO MICRONUTRIENTS



BIO-NANO TECHNOLOGY BASED SPECIALIZED
SINGLE NUTRIENT AND MULTI-MICRONUTRIENTS



Natural CAB
(Ca - 22% and B - 3.8%)



Balance Nano
Specific Nutrition Mix
+ MET for flowering stage



Nano Mg
(13%)



Nano Zn
(30%)



Nano Fe
(12%)



Balance Nutri
Nutrient Deficiency Corrector
(Zn-6%+Fe-6%+Mn-5%+
Cu-1%+B-2%+Mo-0.1%)

CONTENT:
Stage Specific Nutrients + Unique
Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
50 gm/Acre or 125 g/Ha

Available in customised formulations at
desired dosages

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm, 100 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

Geolife Nano Micronutrients, powered by BNT plant cell technology, deliver rapid absorption and faster crop response, outperforming conventional formulations.

Specialized single- or multi-micronutrient formulations with BNT and MET technology efficiently correct deficiencies even at low dosages.

Microbial Extract-Based Chelation: Uses natural microbial extracts instead of synthetic EDTA, ensuring efficient nutrient delivery, safer crops, and enhanced plant performance.

VEGAN

ORGANIC

BIONANO

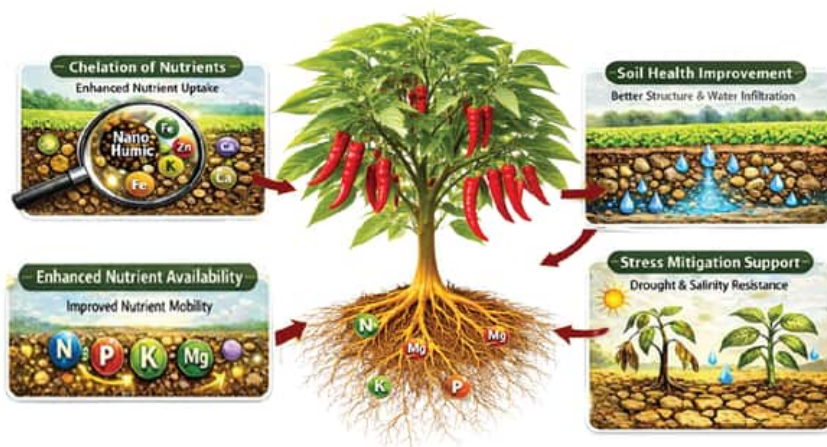
NANO

NANO HUMIC

HIGH PERFORMING BIOSTIMULANTS

MODE OF ACTION

1. **CHELATION OF NUTRIENTS** - Nano Humic chelates essential nutrients in soil, making them more available for efficient root uptake.
2. **SOIL HEALTH IMPROVEMENT** - Enhances soil structure by improving aggregation, aeration, and water infiltration while stabilizing soil pH.
3. **ROOT GROWTH REGULATION** - Stimulates auxin-like activity, promoting stronger root initiation, elongation, and branching.
4. **ENHANCED NUTRIENT AVAILABILITY** - Improves solubility and mobility of nutrients in the rhizosphere, increasing absorption efficiency.
5. **STRESS MITIGATION SUPPORT** - Helps plants tolerate abiotic stresses like drought and salinity by improving water uptake and nutrient balance.



BENEFITS

1. **IMPROVED NUTRIENT UPTAKE** - Enhances nutrient absorption and retention in plants, ensuring better utilization and reduced nutrient losses.
2. **ENHANCED SOIL STRUCTURE** - Improves soil porosity and moisture retention, creating an ideal environment for root development.
3. **STRONGER ROOT DEVELOPMENT** - Promotes deeper and healthier root systems, improving nutrient and water acquisition.
4. **IMPROVED CROP GROWTH AND YIELD** - Supports balanced plant growth, resulting in higher biomass, better vigor, and improved yields.
5. **INCREASED STRESS TOLERANCE** - Builds plant resilience against environmental stress, supporting stable growth under adverse conditions.



CONTENT:
Humic Acid + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
50 gm/Acre or 125 gm/Ha

Soil:
100-150 gm/Acre or 250-375 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm , 100 gm, 500 gm,
1 Kg, 5 Kg , 10 Kg, 20 Kg

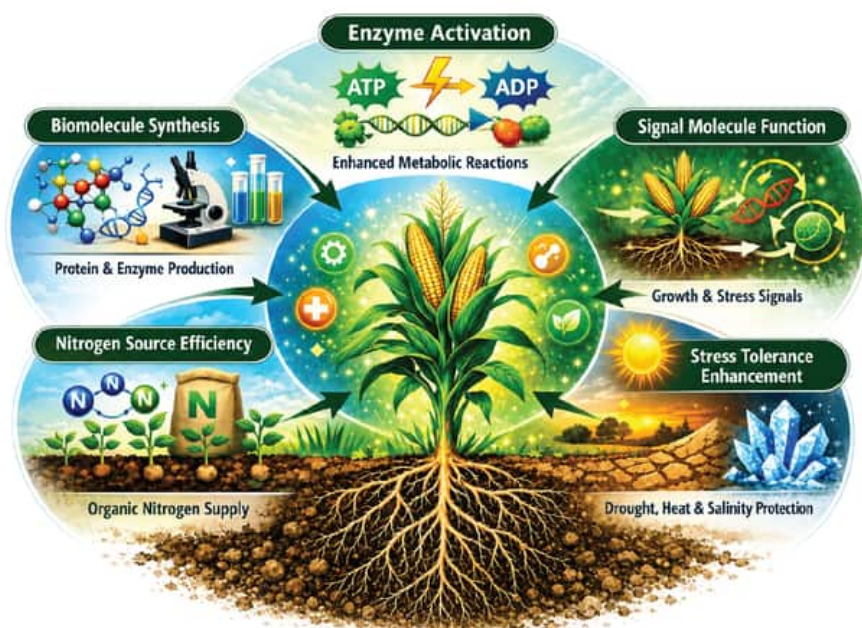


NANO AMINOS

HIGH PERFORMING BIOSTIMULANTS

MODE OF ACTION

1. **BIOMOLECULE SYNTHESIS** - Promotes synthesis of proteins, enzymes, and plant growth promoters essential for growth and development.
2. **ENZYME ACTIVATION** - Activates key metabolic enzymes, enhancing biochemical reactions involved in energy production and nutrient assimilation.
3. **SIGNAL MOLECULE FUNCTION** - Acts as signaling molecules regulating root development, flowering, stress response, and overall plant physiology.
4. **NITROGEN SOURCE EFFICIENCY** - Provides readily available organic nitrogen, supporting rapid growth and improved nitrogen metabolism.
5. **STRESS TOLERANCE ENHANCEMENT** - Acts as osmoprotectants, stabilizing cell membranes and proteins under drought, heat, and salinity stress.



BENEFITS

1. **Enhanced Chlorophyll Production** - Boosts photosynthesis and leaf greenness, improving overall plant vitality and energy production.
2. **Supports Protein Synthesis** - Promotes plant growth and development by supporting continuous protein and enzyme formation.
3. **Improves Stress Tolerance** - Helps plants withstand drought, heat, and salinity by reducing oxidative damage and stress impact.
4. **Enhances Nutrient Absorption** - Facilitates nitrogen uptake and nutrient transport, improving nutrient use efficiency.
5. **Optimizes Metabolic Processes** - Supports synthesis of growth substances, improving flowering, fruit set, yield, and crop quality.



CONTENT:
Amino Acid + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
50 gm/Acre or 125 gm/Ha

Soil:
100-150 gm/Acre or 250-375 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm , 100 gm, 500 gm,
1 Kg, 5 Kg , 10 Kg, 20 Kg



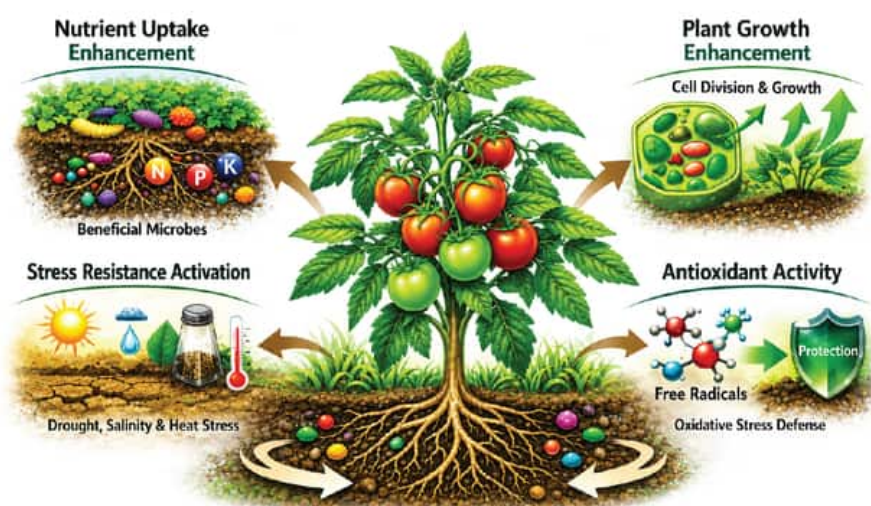
NANO SEAWEED

HIGH PERFORMING BIOSTIMULANTS



MODE OF ACTION

1. **NUTRIENT UPTAKE ENHANCEMENT** - Improves nutrient availability in soil by stimulating beneficial microbial activity that supports plant growth.
2. **ANTIOXIDANT ACTIVITY** - Protects plant cells from oxidative stress by neutralizing harmful free radicals caused by environmental factors.
3. **SOIL CONDITIONING EFFECT** - Improves soil structure, water retention, and aeration, creating a favourable environment for root growth.
4. **CELLULAR ACTIVITY STIMULATION** - Supplies natural bioactive compounds that stimulate cell division, elongation, and overall plant development.
5. **PHYSIOLOGICAL STRESS RESISTANCE** - Regulates physiological responses at the cellular level, helping plants tolerate drought, salinity, and temperature stress.



BENEFITS

1. **INCREASED PHOTOSYNTHETIC EFFICIENCY:** Boosts chlorophyll synthesis and energy conversion, supporting healthier and more vigorous plant growth.
2. **IMPROVED NUTRIENT UTILIZATION:** Enhances macro and micronutrient uptake efficiency, maximizing fertilizer performance and crop productivity.
3. **SUPERIOR CROP YIELD AND QUALITY:** Encourages uniform crop development, enhanced size consistency and superior overall produce quality.
4. **FASTER BIOMASS PRODUCTION:** Promotes significant root mass expansion and accelerated vegetative growth, resulting in stronger and healthier plants.
5. **NATURAL IMMUNITY BOOSTER:** Seaweed acts as a plant defense elicitor triggering systemic resistance against biotic stresses.



CONTENT:
Seaweed Extract + Unique Microbial Extract

APPLICATION AND DOSAGE:

Foliar:
50 gm/Acre or 125 gm/Ha

Soil:
100-150 gm/Acre or 250-375 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm , 100 gm, 500 gm, 1 Kg,
5 Kg , 10 Kg, 20 Kg



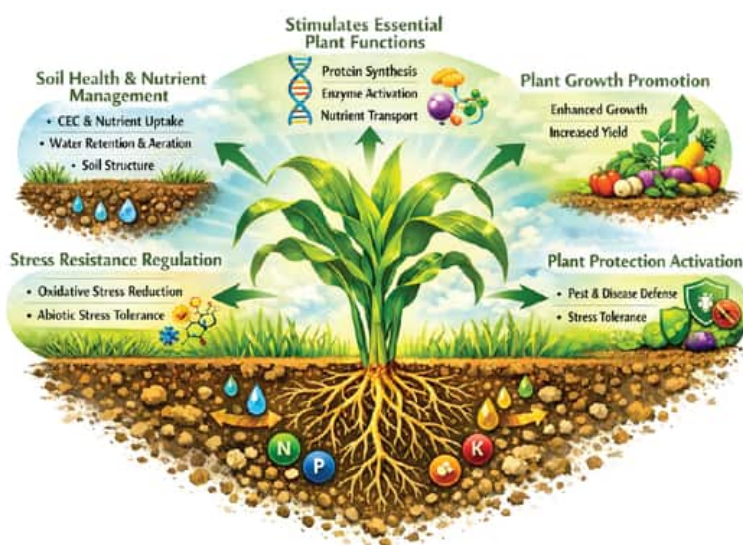
NANO PGP MIX



HIGH PERFORMING BIOSIMULANTS

MODE OF ACTION

- 1. SOIL HEALTH & NUTRIENT MANAGEMENT** - Improves cation exchange capacity (CEC), enhances nutrient uptake, water retention, aeration, and stabilizes soil structure.
- 2. STIMULATES ESSENTIAL PLANT FUNCTIONS** - Promotes protein synthesis, enzyme activation, signal transduction, stress response, and nutrient transport.
- 3. PLANT GROWTH PROMOTION** - Supplies essential nutrients and growth-promoting compounds that support vigorous vegetative and reproductive growth.
- 4. PLANT PROTECTION ACTIVATION** - Strengthens plant defense mechanisms against environmental stress, pests, and diseases.
- 5. STRESS RESISTANCE REGULATION** - Reduces oxidative stress and improves plant tolerance to abiotic stress through antioxidant.



BENEFITS

- 1. ENHANCED NUTRIENT UPTAKE** - Humic acids chelate nutrients, while amino acids enhance absorption and translocation for improved plant nutrition.
- 2. IMPROVED SOIL HEALTH** - Enhances soil structure and microbial activity, creating a healthier rhizosphere for root development.
- 3. STIMULATES PLANT GROWTH** - Amino acids and humic substances boost cell division, metabolism, and overall crop vigor.
- 4. INCREASED STRESS RESISTANCE** - Amino acids reduce stress-induced oxidative damage, while humic substances improve stress tolerance.
- 5. OPTIMIZED PHOTOSYNTHESIS** - Enhances chlorophyll production and metabolic efficiency, supporting improved growth, yield, and crop quality.



CONTENT:
Humic Acid + Amino Acid + Seaweed Extract + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
100 gm/Acre or 250 gm/Ha

Soil:
200 gm/Acre or 500 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm, 100 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg



BIOCHELATED RESIDUE-FREE LIQUID FERTILIZERS

Our proprietary Biochelation process is a revolutionary approach to plant nutrition, bridging the gap between raw minerals and biological uptake. By leveraging the principles of molecular bonding, we ensure that every nutrient delivered is utilized to its maximum potential.

Molecular Shielding:

Biochelation binds essential minerals with organic molecules from amino acids and microbial extracts, forming stable complexes preventing nutrient lock-up.

Targeted Bioavailability:

Biochelated nutrients remain soluble and stable unlike mineral salts, enabling consistent absorption and efficient delivery through plant vascular systems.

Eco-Sustainable Efficiency:

Improved nutrient absorption allows reduced application rates, minimizing environmental runoff while enhancing crop performance and maintaining healthier soil ecosystems.

Rapid Metabolic Integration:

Biological chelating agents enable plants to metabolize nutrient complexes efficiently, supporting faster deficiency recovery and improved physiological growth.

AGRO SOLUTIONS

- *Poshan Start*
- *Poshan Grow*
- *Poshan Blossom*
- *Poshan Flower*
- *Poshan Fruit*
- *Poshan Nourish*
- *Micronix*



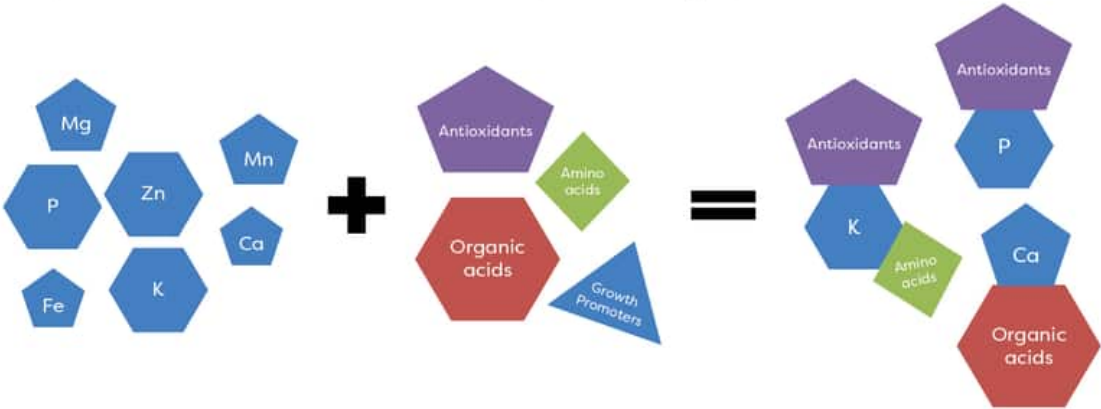
SUSTAINABLE FARMING WITH BIOCHELATED FERTILIZERS

Overuse of chemical fertilizers and pesticides harms soil health, accumulating heavy metals that affect plants, humans, and ecosystems. Biochelated fertilizers offer a sustainable alternative, reducing heavy metal levels and boosting soil enzyme activity crucial for plant growth. These eco-friendly, non-toxic fertilizers enhance soil structure, biodiversity, and crop yields. Geolife Poshan's biochelated fertilizers help create healthier, more resilient plants and increase crop productivity.



GEOLIFE MET CHELATION PROCESS:

Our advanced MET Chelation process combines plant nutrients with unique microbial extracts, creating chelated macro and micronutrients that plants can rapidly absorb and use.



Plant Macro & Micronutrients + Microbial Extracts = Chelated Nutrients

SINGLE NUTRIENT FORMULATIONS

	LIQUID	POWDER
NITROGEN	20:00:00	20:00:00
PHOSPHORUS	0:20:00	0:20:00
POTASSIUM	0:00:20	0:00:20

MULTI MICRONUTRIENT MIX

Fe	Mg	Zn	Mn	Cu	B	Mo
2.5	3	2.5	2.5	1	1	0.05

MULTI NUTRIENT FORMULATIONS

	LIQUID	POWDER
NPK	12:12:12	15:15:15
	12:12:10	12:12:12
	08:08:08	
NP	10:20:00	
PK	00:20:20	00:20:20



POSHAN



FEATURES



Revolutionary
Biochelated
Fertilizers



Comprehensive
Nutrient
Blend



Enhanced
Nutrient
Delivery



Toxic
Free
Preparation



Eco-friendly
and
Sustainable



POSHAN	N	P	K	Fe	Zn	Mn	Mg	B	Ca
START	12	12	12	0.3	0.3	0.5	1	0.1	1
GROW	8	18			0.5		1		1.5
BLOSSOM	10	18			0.05	0.3	1.5		
FLOWER		18	18		0.5	0.2	1	0.1	
FRUIT	6		20	0.5		0.5		0.01	1
NOURISH	8	15	8		1		1	0.01	

Figures in percentage (%)

STAGE SPECIFIC BIOCHELATED RESIDUE FREE LIQUID FERTILIZERS

1. POSHAN START

BENEFITS

- **GROWTH ENHANCEMENT:** Encourages healthy germination, leaf, and stem growth.
- **STRESS RESISTANCE:** Improves plant resilience against environmental stressors.
- **IMPROVED ROOT SYSTEM:** Aids in chlorophyll production, ensuring efficient photosynthesis.
- **OPTIMIZES PHOTOSYNTHESIS:** Promotes the development of robust feeder roots.
- **DISEASE RESISTANCE:** Strengthens plants structurally to better combat diseases.

Essential Nutrient Content:

- Nitrogen (N)
- Phosphorus (P)
- Potassium (K)
- Iron (Fe)
- Zinc (Zn)
- Manganese (Mn)
- Magnesium (Mg)
- Boron (B)
- Calcium (Ca)



2. POSHAN GROW

BENEFITS

- **GROWTH AND DEVELOPMENT:** Promotes vigorous shoot and root growth, ensuring strong structural and metabolic foundations for plants.
- **PHOTOSYNTHESIS AND ENERGY:** Boosts chlorophyll synthesis and enzyme activity, enabling efficient energy capture and metabolic processes.
- **STRENGTHENED STRUCTURE AND STRESS RESISTANCE:** Reinforces cell walls and osmotic balance, increasing resilience to environmental stresses and pathogen attacks.
- **REPRODUCTIVE SUCCESS:** Supports flowering, fruiting, and seed development, ensuring high-quality yield and reproduction.
- **NUTRIENT UTILIZATION AND TRANSPORT:** Facilitates nutrient absorption, movement, and prevention of deficiencies, ensuring balanced plant health.

Essential Nutrient Content:

- Nitrogen (N)
- Phosphorus (P)
- Zinc (Zn)
- Magnesium (Mg)
- Calcium (Ca)



3. POSHAN BLOSSOM

BENEFITS

- **ENHANCED NUTRIENT BIOAVAILABILITY:** Improves macro and micronutrient assimilation for efficient plant nutrition.
- **SUPPORTS VIGOROUS GROWTH:** Encourages strong vegetative growth and root development for successful flowering.
- **STRENGTHENS PLANT DEFENCES:** Enhances nutritional status to boost resistance against environmental and biological stress.
- **OPTIMIZED FLOWER AND FRUIT DEVELOPMENT:** Ensures a balanced nutrient supply for healthy yield and quality.
- **ECO-FRIENDLY AND SUSTAINABLE:** Reduces nutrient runoff and minimizes the need for excessive chemical inputs.

Essential Nutrient Content:

- Nitrogen (N)
- Phosphorus (P)
- Zinc (Zn)
- Manganese (Mn)
- Magnesium (Mg)



1. POSHAN FLOWER

BENEFITS

- **FLOWER FORMATION:** Essential for initiating and developing flower buds, increasing flower count and quality.
- **POLLINATION & FERTILITY:** Enhances pollen production and fertilization, leading to better fruit and seed development.
- **REGULATION OF HORMONAL BALANCE:** Regulates plant hormones that control flowering time, size, and success.
- **ENERGY FOR REPRODUCTIVE PROCESSES:** Supports photosynthesis and energy transfer for the high demands of flowering and fruiting.

Essential Nutrient Content:

- Phosphorus (P)
- Potassium (K)
- Zinc (Zn)
- Manganese (Mn)
- Magnesium (Mg)
- Boron (B)



2. POSHAN FRUIT

BENEFITS

- **BOOSTS FRUIT GROWTH:** Enhances fruit size, shape, and yield.
- **IMPROVES PHOTOSYNTHESIS:** Increases energy for fruit development.
- **STRENGTHENS PLANT RESISTANCE:** Improves resistance to stress and diseases.
- **OPTIMIZES NUTRIENT TRANSPORT:** Ensures fruits get the necessary nutrients.
- **ENHANCES RIPENING QUALITY:** Improves fruit flavor, colour, and shelf life.

Essential Nutrient Content:

- Nitrogen (N)
- Potassium (K)
- Iron (Fe)
- Manganese (Mn)
- Boron (B)
- Calcium (Ca)



3. POSHAN NOURISH

BENEFITS

- **ENHANCED GROWTH AND DEVELOPMENT:** Vital for building essential plant structures, promoting cell division, and driving vegetative growth.
- **ENERGY TRANSFER AND METABOLISM:** Plays a crucial role in photosynthesis and energy-related processes, ensuring efficient use of light and nutrients.
- **FLOWERING AND FRUITING EFFICIENCY:** Boosts the production of flowers and fruits by improving nutrient allocation to reproductive structures.
- **ENHANCED QUALITY OF PRODUCE:** Improves the size, colour, and nutritional value of harvested crops, ensuring better marketability and consumption appeal.
- **BIOTIC & ABIOTIC STRESS RESISTANCE:** Supports root growth and helps plants resist diseases, drought, and temperature extremes.

Essential Nutrient Content:

- Nitrogen (N)
- Phosphorus (P)
- Potassium (K)
- Zinc (Zn)
- Magnesium (Mg)
- Boron (B)



CONTENT:

Macro and Micro Nutrients + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:

1 Ltr/Acre or 2.5 Ltr/Ha

Available in customized formulations at desired dosages

PACKAGING OPTIONS AVAILABLE:

POWDER FORM: 500 ml, 1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC



V VEGAN

O ORGANIC

BN BIONANO

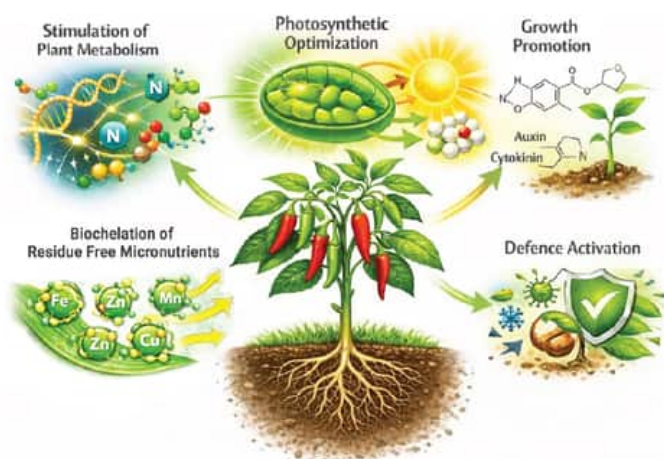
N NANO

MICRONIX

HIGH PERFORMING MULTI MICRONUTRIENT

MODE OF ACTION

- 1. STIMULATION OF PLANT METABOLISM** - Supports vital biochemical reactions including nucleic acid formation, nitrogen utilization, and protein biosynthesis, promoting vigorous plant growth.
- 2. OPTIMIZATION OF PHOTOSYNTHETIC ACTIVITY** - Improves chlorophyll efficiency and photosynthetic processes, resulting in enhanced energy generation and increased carbohydrate production.
- 3. PROMOTION OF PLANT GROWTH MECHANISMS** - Enhances the activity of enzyme systems responsible for the synthesis and promotion of endogenous growth hormones.
- 4. BIOCHELATION FOR RESIDUE FREE MICRONUTRIENTS** - Facilitates natural biochelation, improving the stability, mobility, and absorption of micronutrients in plant systems for efficient utilization and metabolic activity.
- 5. INDUCTION OF PLANT DEFENCE RESPONSES** - Activates internal plant defence pathways, improving tolerance to various biotic and abiotic stress conditions.



BENEFITS

- 1. IMPROVED CROP PERFORMANCE** - Promotes balanced plant development, resulting in better plant vigor, higher productivity, and improved crop quality.
- 2. EFFICIENT PHOTOSYNTHESIS & ENERGY FORMATION** - Supports chlorophyll activity and carbohydrate synthesis, ensuring a steady energy supply for plant growth.
- 3. STRONGER STRESS RESISTANCE** - Helps plants tolerate environmental and biological stresses while reducing oxidative damage and aiding faster recovery.
- 4. BIOCHELATION FOR BETTER MICRONUTRIENT EFFICIENCY** - Promotes natural biochelation, enhancing the uptake, mobility, and utilization of residue free essential micronutrients required for key physiological and biochemical plant functions.
- 5. ENHANCED ENZYME FUNCTIONING** - Stimulates enzyme systems involved in metabolism, defence mechanisms, and overall plant growth processes.



CONTENT:
Multi micronutrients

APPLICATION AND DOSAGE:

Foliar:
500 ml/Acre or 1.25 Ltr/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
500 ml, 1 Ltr, 5 Ltr, 20 Ltr,
200 Ltr, 1000 Ltr IBC

Fe	2.5
Mg	3
Zn	2.5
Mn	2.5
Cu	1
B	1
Mo	0.05

Figures in percentage (%)

INNOVATIVE SOIL CONDITIONERS

Innovative soil conditioners improve soil structure, enhance water retention, and promote better root growth. These advanced products enrich the soil with essential nutrients, improve aeration, and support microbial activity, leading to healthier crops. By enhancing soil fertility and sustainability, they contribute to more efficient and environmentally friendly agricultural practices.

AGRO SOLUTIONS

- *Salt Down*
- *Carbon Stones*
- *Foundation*



**REGENERATE SOIL HEALTH WITH QUINTESSENCE --
AND HEALTHIER CROPS. NATURALLY.**

SILCAMAG

Silicon-Based Soil
Enhancer

Improves soil structure,
making nutrients more
available.

Enhances root growth
and strengthens crop
resilience.

Application and Dosage:
Soil Application – 20 kg
per acre / 50 kg per ha

FOUNDATION

Advanced Micronutrient
Soil Conditioner

Provides eight essential
nutrients for optimal
plant health.

Boosts microbial
activity and nutrient
absorption, enriching
soil fertility.

Application and Dosage:
Soil Application: 4 kg
per acre / 10 kg per ha

Geolife QuintEssence

Power of 5 Reverses Soil Malnutrition
and saves you from repeated use of Harmful Chemicals

INNOVATIVE SOIL CONDITIONERS

3



4



5



5 CUTTING-EDGE SOLUTIONS. RESTORE SOIL VITALITY FOR DISEASE-FREE

VIGORE RAJA

Nutrient Activator for Enhanced Uptake

Strengthens plants from the inside out.

Improves quality and nutritional value of crops.

Application and Dosage:
Soil Application: 250 gm per acre/625 gm per ha

BACTOGANG 24

24 Billion Beneficial Bacteria for Soil Health

Restores lost soil microbes to improve organic matter decomposition.

Reduces pathogen buildup and enhances soil aeration.

Application and Dosage:
Soil Application: 500 gm per acre or 1.25 kg per ha

500 ml per acre / 1.25 litre per ha

CARBON STONES

35% Organic Carbon for Long-Term Sustainability

Helps maintain soil structure and water retention.

Reduces soil erosion and improves productivity.

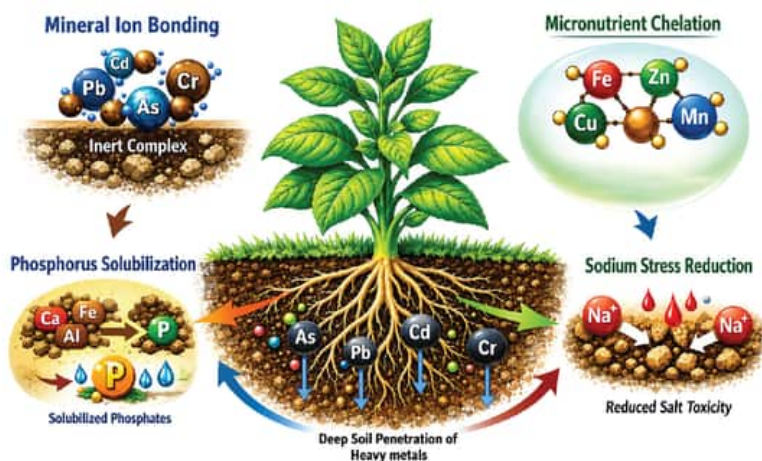
Application and Dosage:
Broadcasting / Drip / Drenching : 1- 2 kg per acre or 2.5 - 5 kg per ha

SALT DOWN

SALINE SOIL CONDITIONER

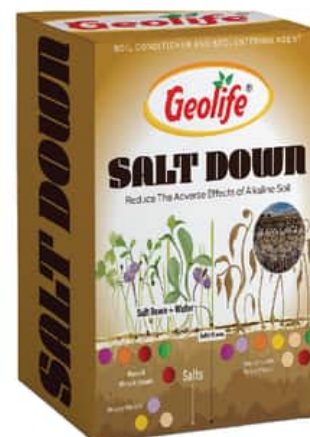
MODE OF ACTION

1. **MINERAL ION BONDING** - The ionic groups in Saltdown bond with heavy metal ions, creating non-reactive inert spherical molecules that won't interact with other compounds, effectively reducing soil salinity.
2. **RHIZOSPHERE ACTIVATION** - Stimulates beneficial microorganisms at the root-soil interface, enhancing biological activity and natural nutrient cycling.
3. **ORGANIC ACID SECRETION ENHANCEMENT** - Restores root-zone organic acid secretion, mobilizing nutrients under saline and stress conditions, and supporting deep soil penetration for sustained salinity reduction.
4. **MICRONUTRIENT CHELATION & PHOSPHORUS SOLUBILIZATION** - Organic acids chelate iron, zinc, manganese, and copper, keeping them soluble and plant-available, while breaking down insoluble calcium, iron, and aluminium phosphates into available phosphorus.
5. **DEEP SOIL PENETRATION** - Over time, water carries inert heavy metal molecules deep into the soil, lowering salinity levels in the topsoil layer.



BENEFITS

1. **INERT METAL ION BINDING** - Special anionic groups in Salt Down react with metal ions, forming inert molecules and preventing contact with plant roots.
2. **IMPROVED NUTRIENT AVAILABILITY** - Freeing nutrient ions from highly reactive compounds, Salt Down enhances the availability of essential nutrients to plants.
3. **HEAVY METAL DETOXIFICATION** - Reacts with heavy metals, rendering them unavailable to plants, thus preventing toxicity.
4. **SODIC SOIL TREATMENT** - The anionic groups in Salt Down specifically target Na^+ , effectively reducing sodium levels in sodic soils and improving soil health.
5. **GROWTH ENHANCEMENT** - Amino acids present in Salt Down support vigorous plant growth, improving overall vitality.



CONTENT:
Unique Microbial Extracts

APPLICATION AND DOSAGE:

Soil:
1-2 Kg/Acre or 2.5-5 Kg/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg

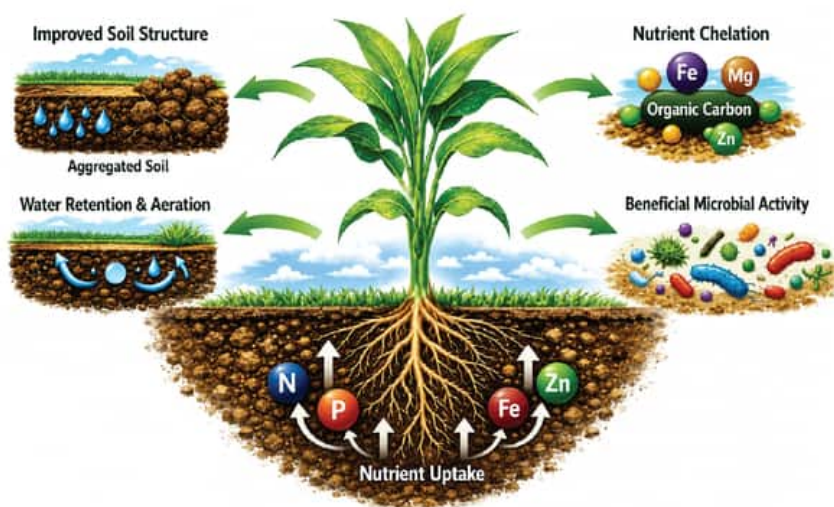


CARBON STONES

SOIL ORGANIC CARBON RECHARGER

MODE OF ACTION

- BOOSTS SOIL ORGANIC MATTER AND CARBON SEQUESTRATION** - Carbon Stone enriches the soil with stable organic carbon, improving soil structure, aeration, and water-holding capacity.
- ACTIVATES AND SUPPORTS MICROBIAL COMMUNITIES** - It energizes beneficial soil microbes, boosting activity and diversity to speed up residue breakdown and improve nutrient cycling.
- IMPROVES NUTRIENT RETENTION AND AVAILABILITY** - Carbon Stone improves nutrient retention, reduces leaching, and increases phosphorus, iron, and zinc availability, strengthening roots and enhancing overall plant nutrition.
- ENHANCES SOIL STRUCTURE AND FUNCTION** - Carbon Stone improves soil structure, moisture retention, microbial activity, and root health.
- HIGH CATION EXCHANGE CAPACITY** - Enhances nutrient availability and prevents complex nutrients from becoming unavailable.



BENEFITS

- READY SOURCE OF ORGANIC CARBON** - Provides readily available organic carbon for immediate utilization by soil microbes, enhancing biological activity.
- ENHANCED SOIL HEALTH** - Improves soil fertility, water-holding capacity, aeration, and nutrient availability for optimal plant growth.
- ORGANIC MATTER BOOST** - Increases soil organic matter content, strengthening overall soil productivity and sustainability.
- DROUGHT RESILIENCE** - Enhances soil moisture retention, reducing drought stress and supporting crop stability.
- NUTRIENT CYCLING** - Supports microbial growth, improving nutrient fixation, solubilization, and mineralization in the soil.



CONTENT:
Activated Organic Carbon + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Soil:
1-2 Kg/Acre or 2.5-5 Kg/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



V VEGAN

O ORGANIC

BN BIONANO

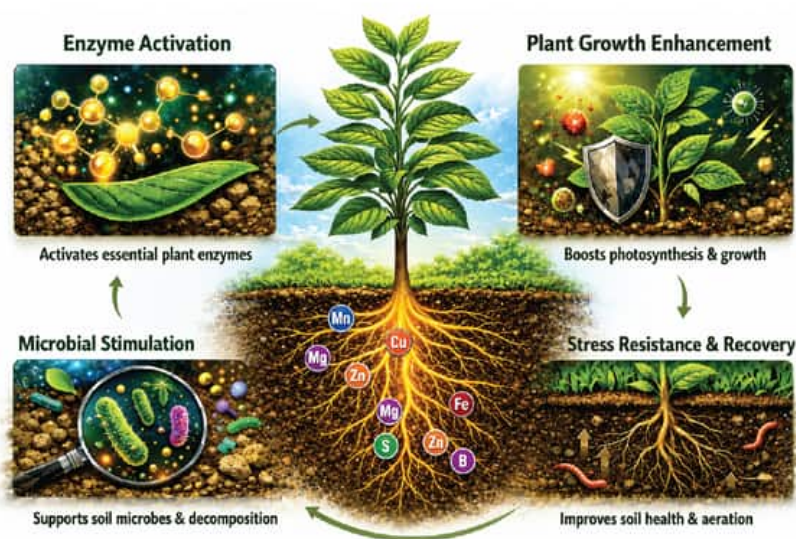
N NANO

FOUNDATION

MULTI MICRONUTRIENT BASED SOIL CONDITIONER

MODE OF ACTION

1. **ENZYME ACTIVATION** - Micronutrients activate essential plant enzymes, supporting vital metabolic and physiological functions.
2. **PLANT GROWTH ENHANCEMENT** - Supports chlorophyll synthesis and photosynthesis, promoting vigorous vegetative growth.
3. **STRESS RECOVERY** - Strengthens plant immunity system which helps to accelerate recovery from stress.
4. **SOIL FERTILITY & STRUCTURE** - Improves soil porosity and structure, enabling better root penetration and nutrient cycling.
5. **MICROBIAL STIMULATION** - Encourages beneficial soil microorganisms that aid nutrient transformation and organic matter decomposition.



BENEFITS

1. **ENHANCED SOIL FERTILITY** - Provides essential trace minerals and micronutrients, improving nutrient availability and uptake.
2. **LONG LASTING AND UNIFORM SUPPLY** - It helps gradually make trace elements available throughout the crop cycle.
3. **IMPROVEMENT OF SOIL STRUCTURE** - Enhances aeration, improves drainage in clay soils, and helps to reduce soil micro nutrients deficiency.
4. **IMPROVED WATER RETENTION & MOISTURE BALANCE** - Boosts soil moisture-holding capacity, supporting crops under irregular rainfall conditions.
5. **STRONGER ROOT GROWTH & CROP PERFORMANCE** - Promotes healthier root systems, leading to improved plant vigor and productivity.



CONTENT:
Multimicronutrients +
Unique Microbial Extracts

APPLICATION AND DOSAGE:

Soil:
4 Kg/Acre or 10 Kg/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
1 Kg, 4 Kg, 5 Kg, 10 Kg, 20 Kg



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CROP STAGE BIOSTIMULANTS FOR ROBUST GROWTH AND RESILIENCE

Crop stage-specific biostimulants are specially designed to enhance plant growth and resilience at different stages of development. These biostimulants provide targeted support, improving nutrient uptake, stress tolerance, and overall plant health, leading to increased yields. They help optimize plant performance while promoting sustainable farming practices.

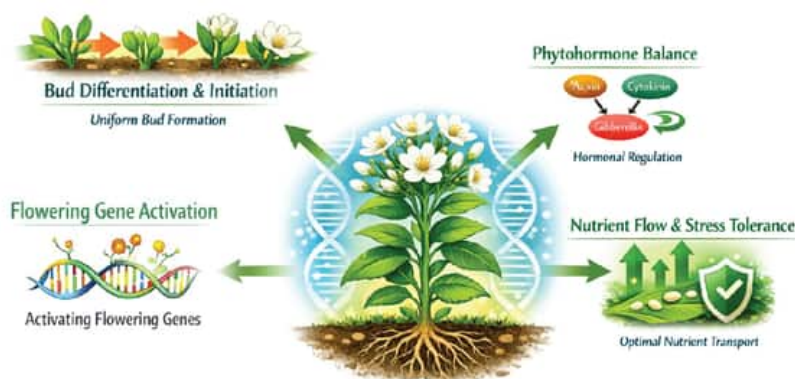
AGRO SOLUTIONS

- *Florex*
- *Neo Vigore 51*
- *Vigore FS*
- *Foster*
- *Plus*

FLOWER BOOSTER

MODE OF ACTION

1. **AMINO ACID SIGNALING CROSSTALK** - Proline-mediated osmotic signaling and arginine-derived nitric oxide coordinate transcriptional networks influencing flowering initiation under developmental and environmental cues.
2. **PHYTOHORMONE BALANCE REGULATION** - It regulates the balance and synthesis of key phytohormones involved in flowering. This ensures a smooth transition to the reproductive stage and supports stable flower development.
3. **FLOWERING GENE ACTIVATION** - Florex activates flowering-related genes, ensuring timely flower initiation and proper development.
4. **ENHANCED NUTRIENT FLOW & STRESS RESPONSE** - It enhances nutrient uptake and translocation for floral bud formation while improving stress tolerance for uniform flowering.
5. **FLORAL BUD DIFFERENTIATION & INITIATION** - Florex promotes vegetative-to-floral meristem transition, ensuring uniform bud differentiation, timely flowering, and improved bloom intensity.



BENEFITS

1. **ENHANCED FEMALE FLOWERING** - Florex promotes female and hermaphrodite flower formation and improved flowering efficiency.
2. **IMPROVES FLORAL QUALITY & REPRODUCTIVE EFFICIENCY** - Optimizes internal nutrient balance and metabolic stability within flowers, supporting improved reproductive performance during flowering.
3. **COMPLETE FLOWER DEVELOPMENT** - Helps in complete development of the flowers and achieving improved male to female 1 : 8 flower ratio.
4. **ENHANCES ENERGY SUPPLY TO FLOWERS** - Florex improves photosynthetic efficiency and sugar translocation to floral organs, ensuring adequate energy for flower development and longevity.
5. **ECO-FRIENDLY ACTION** - Florex maintains soil and plant biological harmony, enabling effective flowering while protecting ecosystem functionality.



CONTENT:
Amino Acid + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
5 gm/Acre & 12.5 gm/Ha

PACKAGING OPTIONS AVAILABLE:

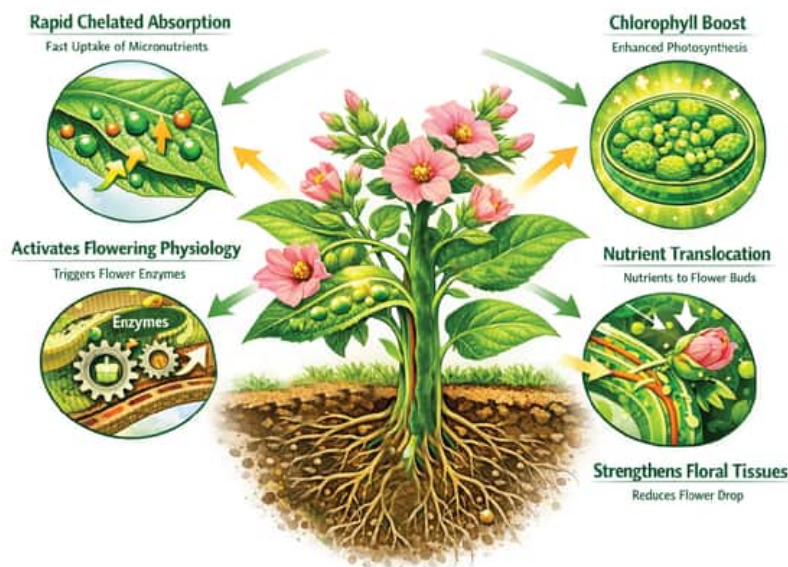
POWDER FORM:
5 gm, 10 gm, 50 gm, 100 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

NEO VIGORE 51

FLOWER BOOSTER AND DROP ARRESTER

MODE OF ACTION

1. **RAPID CHELATED MICRONUTRIENT ABSORPTION** - Neo Vigore 51 provides fully chelated micronutrients for rapid foliar uptake, ensuring instant micronutrient support during flowering.
2. **ACTIVATION OF FLOWERING PHYSIOLOGY** - Key micronutrients in Neo Vigore 51 activate floral enzymes, ensuring a timely shift to flowering and uniform, synchronized bloom across the crop.
3. **CHLOROPHYLL BIOSYNTHESIS AND PHOTOSYNTHETIC ENHANCEMENT** - Enhance chlorophyll synthesis and photosynthesis, boosting energy supply to support sustained flower formation and vitality.
4. **IMPROVED NUTRIENT TRANSLOCATION TO FLORAL BUDS** - Neo Vigore 51 improves nutrient translocation from leaves to flower buds, ensuring consistent flower nourishment even under stress conditions.
5. **MICRONUTRIENT-DRIVEN FLORAL TISSUE STABILIZATION** - Neo Vigore 51 corrects hidden micronutrient deficiencies, stabilizing floral tissues and hormones to reduce stress and prevent premature flower drop.



BENEFITS

1. **UNIFORM AND PROFUSE FLOWERING** - Ensures even flower initiation across the crop, leading to synchronized flowering and improved crop uniformity.
2. **REDUCED FLOWER DROP** - Strengthens flower attachment and supports internal balance, significantly lowering stress-induced flower loss.
3. **IMPROVED FLOWER STRENGTH & LONGEVITY** - Micronutrients support cellular integrity of floral parts, resulting in healthier, longer-lasting flowers.
4. **QUICK RESPONSE & STRESS PROTECTION DURING FLOWERING** - Rapidly absorbed chelated nutrients correct deficiencies quickly while enhancing metabolic stability and stress tolerance during flowering.
5. **ENHANCED FEMALE FLOWERING & COMPLETE FLORAL DEVELOPMENT** - It promotes female and hermaphrodite flower formation, supports complete floral development, and achieving improved the male-to-female 1 : 8 flower ratio.



CONTENT:
Amino Acid + Speciality Nutrients +
Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
51 gm/Acre & 127.5 gm/Ha

PACKAGING OPTIONS AVAILABLE:

POWDER FORM:
50 gm, 100 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg



VIGORE FS

FRUIT SIZE AND QUALITY ENHANCER

MODE OF ACTION

- BIOACTIVE GROWTH ENHANCEMENT** - A unique blend of botanical extracts, phenolics, and antioxidants supports cellular expansion and improved produce size.
- ENHANCED CELLULAR ACTIVITY** - Activates essential enzymes and metabolic processes, promoting uniform cell division and balanced development.
- IMPROVED NUTRIENT ABSORPTION AND TRANSLOCATION** - Enhances efficient uptake and movement of nutrients, ensuring consistent growth and productivity.
- OPTIMIZED VASCULAR FUNCTION** - Strengthens xylem and phloem transport systems for better water and nutrient distribution.
- BIOCHEMICAL ACTIVATION FOR QUALITY IMPROVEMENT** - Stimulates key metabolic pathways responsible for carbohydrate accumulation and overall produce quality.

BENEFITS

- ENHANCES UNIFORMITY IN FRUIT** - Improves consistent fruit growth, ensuring balanced shape, colour development, and marketable appearance.
- IMPROVES POST-HARVEST LONGEVITY** - Strengthens cellular integrity and metabolic activity, extending shelf life and maintaining freshness during storage and transport.
- GROWTH STIMULATING SUBSTANCES** - Supports natural hormonal balance and physiological functions, leading to increased fruit weight and quality.
- IMPROVED FRUIT APPEARANCE & MARKET VALUE** - Enhances colour, texture, and visual appeal, increasing commercial value and consumer acceptance.
- ENHANCED TASTE AND NUTRITIONAL RICHNESS** - Improves flavor profile, and higher essential nutrient content.

Optimum combination for better results: TABSIL, NATURAL CAB

Tabsil	Natural CAB
 Highest 12 % Orthosillicic Acid (OSA) effervescent tablet • Healthy crop growth • Prevents lodging • Resists biotic and abiotic stress • Reduces transpiration loss	 Anti-cracking Anti rotting



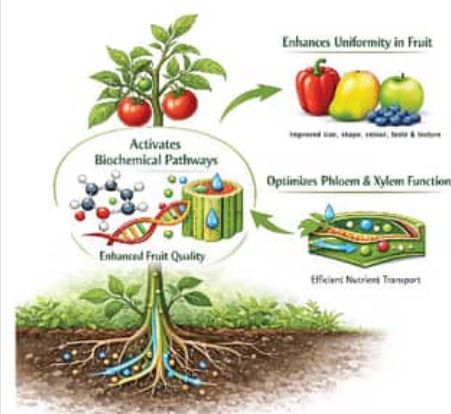
CONTENT:
Botanical Extracts + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
500 ml/Acre or 1.25 Ltr/Ha

PACKING OPTION AVAILABLE:

LIQUID FORM:
250 ml, 500 ml, 1 ltr, 5 Ltr, 20 Ltr,
200 Ltr, 1000 Ltr IBC



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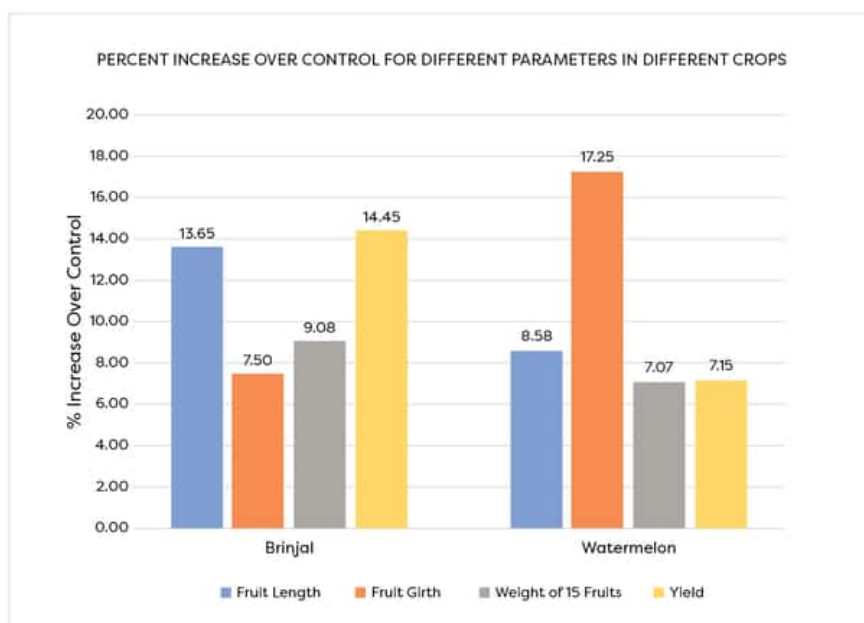
TRIAL DATA

TRIAL - 1: EFFECT OF FOLIAR APPLICATION OF VIGORE FS ON GROWTH AND YIELD IN BRINJAL AND WATERMELON CROPS.

Location: Brinjal - Gondkhed, Tal-Jamner. Dist-Jalgaon.

Watermelon - Waki, Tal-Jamner. Dist-Jalgaon.

Dosage: Vigore FS (500 ml/Acre)



CONCLUSION

Vigore Fruit Special significantly enhanced fruit development and overall productivity across crops, recording a 14.45% yield increase in brinjal and 7.15% increase in watermelon over control. The treatment improved fruit growth, resulting in higher marketable yield and enhanced commercial returns under field conditions.

TRIAL PICTURES

1. COMPARATIVE DIFFERENCE OF VIGORE FS APPLICATION ON WATERMELON

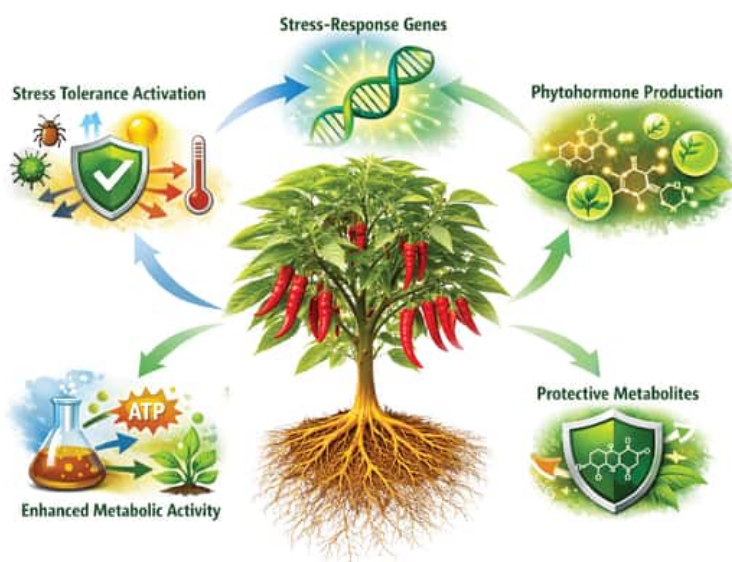


Treatment wise fruit quality at time of harvest after product application

MICROBIAL EXTRACT BASED PLANT TONIC

MODE OF ACTION

1. **STRESS TOLERANCE ACTIVATION** - Improves the plant's natural defence system, helping it withstand against Biotic and Abiotic stresses.
2. **EXPRESSION OF STRESS-RESPONSE GENES** - Triggers stress-protection pathways at the cellular level, enabling faster recovery and better survival under adverse conditions.
3. **PHYTOHORMONE PRODUCTION STIMULATION** - Supports the production of plant hormones that regulate growth, development, and stress adaptation for balanced development.
4. **FASTER BIOCHEMICAL & METABOLIC ACTIVITY** - Enhances enzyme-driven metabolism, improving energy availability and strengthening plant performance during critical stages.
5. **PROTECTIVE METABOLITE SYNTHESIS** - Promotes formation of bioactive metabolites that protect plant tissues and maintain productivity during stress periods.



BENEFITS

1. **IMPROVES THE COLOR & QUALITY OF FRUITS, VEGETABLES, & FLOWERS** - Enhances crop appearance, nutritional quality, and uniform growth, supporting better yield and overall plant health.
2. **ACCELERATES METABOLIC PROCESSES** - Speeds up key biochemical reactions and assimilation, resulting in faster growth and improved plant performance.
3. **ADDRESSES VITAMIN DEFICIENCY & AIDS IN FLOWER DROP** - Helps correct deficiencies and supports proper development, reducing flower drop and improving fruit setting.
4. **PROMOTES NUTRIENT ABSORPTION & STRONGER ROOT SYSTEM** - Strengthens the root system and improves nutrient uptake efficiency for better vigor and balanced development.
5. **INCREASES PLANT STRENGTH TO FACE ADVERSE WEATHER** - Improves plant strength to tolerate heat, cold, and other adverse weather conditions with reduced stress impact.



CONTENT:
Amino Acid + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
25 ml/Acre or 62.5 ml/Ha

PACKAGING DETAILS:

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
25 ml, 50 ml, 100 ml, 250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr



 **VEGAN**
 **ORGANIC**
 **BIONANO**
 **NANO**

PLUS

SPECIALTY NUTRIENTS BASED BIOSTIMULANT

MODE OF ACTION

1. **IMMUNITY BOOSTER** - Enhances plant resistance against pests, diseases, and sudden weather changes by strengthening natural defence responses.
2. **FASTER RECOVERY** - Supports quick recovery from plant injuries and stress, helping plants regain normal growth faster.
3. **NUTRITIONAL SUPPORT** - Maximizes uptake and use of essential nutrients throughout critical growth stages for balanced development.
4. **VIGOROUS GROWTH** - Promotes rapid vegetative development, improving canopy growth and overall plant vigor.
5. **ROOT STIMULATION** - Encourages stronger root initiation and expansion, improving anchorage, water uptake, and nutrient absorption.



BENEFITS

1. **PREMIUM BLEND** - Made from cold-processed virgin seaweed extract, improving plant vitality and natural growth stimulation.
2. **SEAWEED RECOVERY & GROWTH** - Supports faster recovery of seedlings and promotes stronger overall plant growth with better establishment.
3. **IMPROVED IMMUNITY** - Strengthens plant immune response, helping plants resist pests & diseases and tolerate environmental stress effectively.
4. **INCREASED STRESS RESISTANCE** - Improves production of protective plant compounds and essential alkaloids, helping plants survive stress and maintain performance.
5. **INCREASED YIELD POTENTIAL** - Contributes to higher yields and improved crop quality, while also supporting better shelf life of harvested produce.



CONTENT:
Specialty Nutrients + Unique Microbial Extracts

APPLICATION AND DOSAGE:

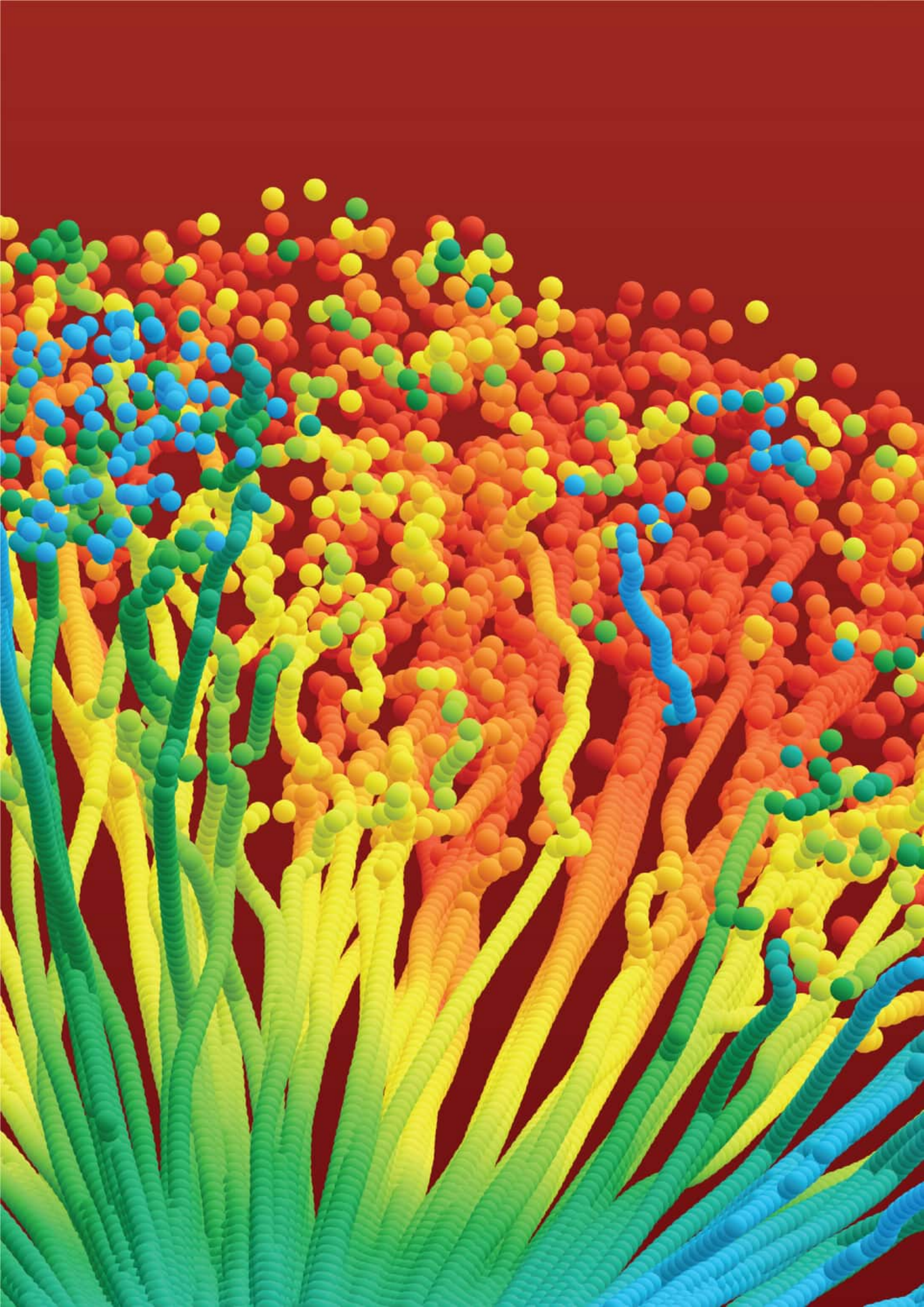
Foliar:
500 ml/Acre or 1.25 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC



V VEGAN
O ORGANIC
BN BIONANO
N NANO



BOTANICAL BIOPESTICIDES

Botanical Biopesticides are natural, plant-derived substances used to protect crops from pests and diseases. They are eco-friendly alternatives to chemical pesticides, effectively targeting harmful organisms while being safe for beneficial insects and the environment. These Biopesticides support sustainable agriculture by reducing chemical usage and promoting healthier ecosystems.

AGRO SOLUTIONS

- *Geoneem*
- *Bittera*
- *No-Virus*
- *No Fungus BE*
- *No Bact*

GEONEEM

AZADIRACHTIN BASED ORGANIC INSECTICIDE

MODE OF ACTION

- FEEDING DETERRENCE** - Activates bitter taste receptors in insects, forcing them to stop feeding and avoid treated crop surfaces.
- HORMONAL DISRUPTION** - Interrupts insect growth and reproduction by disturbing hormonal balance, reducing pest multiplication in the field.
- NEUROTOXIC ACTION** - Neem compounds like Azadirachtin, Salannin, Nimbin, Meliantriol affect insect nervous function, leading to paralysis, feeding stop, and death.
- BROAD-SPECTRUM PROTECTION** - Acts as a natural antimicrobial and antifungal shield, helping suppress bacteria, fungi, and nematode-related pressure.
- MEMBRANE DISRUPTION** - Damages insect/nematode membranes, preventing biofilm formation and blocking molting, which weakens and kills pests early.

BENEFITS

- BROAD-SPECTRUM PEST CONTROL** - Effectively controls a wide range of insect pests, including larvae, nymphs and adults.
- NATURAL REPELLENT & FEEDING INHIBITOR** - Disrupts feeding, growth, and reproduction of insects, quickly reducing pest infestation and crop damage.
- ECO-FRIENDLY & LOW TOXICITY** - Biodegradable and safe for humans, animals, pollinators, and beneficial insects, supporting environmentally sustainable farming.
- RESIDUE-FREE & ORGANIC FARMING COMPATIBLE** - Leaves no harmful residues on crops, making it ideal for organic cultivation and export-oriented, residue-free produce.
- RESISTANCE MANAGEMENT & IPM COMPATIBLE** - Possesses a complex mode of action that helps break resistance to chemical pesticides and fits well into Integrated Pest Management (IPM) programs.

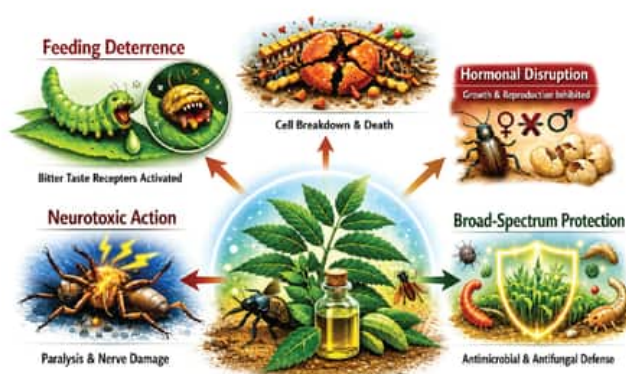
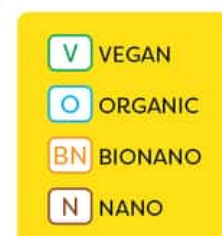


CONTENT:
Azadirachtin + Neem Oil + Emulsifier + Solvent

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
100 ml, 250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC

Also available in customised formulations at desired dosages



AVAILABLE FORMULATIONS

CONCENTRATION	EC	DOSAGE	
		ACRE	HECTARE
300 ppm	0.03%	1.5 litres	3.75 litres
1500 ppm	0.15%	1 litre	2.5 litres
3000 ppm	0.30%	800 ml	2 litres
10000 ppm	1.00%	400 ml	1 litres
50000 ppm	5.00%	100 ml	250 ml

BITTERA

BOTANICAL EXTRACT BASED 6X BITTER ORGANIC FORMULATION

MODE OF ACTION

- 1. INSECT REPELLENT & ANTI-FEEDANT ACTIVITY** - Activates insect bitter taste receptors on contact, causing immediate feeding cessation, reduced host recognition, starvation, and pest migration from treated crops.
- 2. OVIPOSITION DETERRENT EFFECT** - Interferes with insect reproductive behavior, discouraging egg laying on treated surfaces, thereby reducing future pest population buildup and infestation cycles.
- 3. BEHAVIORAL DISRUPTION OF PESTS** - Disturbs pest orientation, movement, and plant recognition signals, making crops unattractive and preventing colonization and sustained feeding activity.
- 4. ANTIMICROBIAL MEMBRANE DISRUPTION** - Botanical bioactive molecules damage microbial cell membranes, inhibiting pathogen growth, colonization, and infection establishment on plant surfaces.
- 5. DISEASE SUPPRESSION MICRO-ENVIRONMENT** - Creates unfavorable conditions for pathogen survival and spore germination while reducing biotic stress pressure and enhancing plant defensive responses.



BENEFITS

- 1. RAPID PEST FEEDING DETERRENCE** - Strong natural bitterness quickly stops pest feeding activity, minimizing crop damage and reducing dependence on chemical insecticides.
- 2. BROAD SPECTRUM PEST CONTROL** - Effective against sucking and chewing pests including aphids, thrips, whiteflies, and caterpillars, ensuring comprehensive crop protection across multiple crops.
- 3. REDUCED PEST POPULATION PRESSURE** - Prevents repeated infestations by disrupting pest life cycles, migration patterns, and reproduction, resulting in sustained pest management benefits.
- 4. DISEASE INCIDENCE REDUCTION** - Antimicrobial properties suppress fungal and bacterial pathogens while preventing secondary infections caused through pest-damaged plant tissues.
- 5. RESIDUE-FREE SUSTAINABLE PROTECTION** - Botanical, biodegradable formulation ensures crop safety, environmental compatibility, and suitability for IPM programs and export-oriented residue-sensitive agriculture.



CONTENT:
Unique Combination of Botanical Extracts

APPLICATION AND DOSAGE:

Foliar:
500 ml- 1 Ltr/Acre or 1.25 - 2.5 Ltr/ha

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC



ARRESTS THE VIRUS



PROVIDES STRENGTH TO PLANTS TO COMBAT VIRUSES AND

BLOCKS VIRUS ENTRY

Like a security force, NO-VIRUS prevents the virus from breaking into plant cells by interfering with the virus's outer layer or the plant cell surface.

HALTS VIRAL REPLICATION

It seizes the virus's ability to multiply by disrupting the cell's protein making

machinery, stopping the infection from spreading.

ANTIOXIDANT POWER

NO-VIRUS acts as a protector, battling against cellular damage caused by

HIGHLY EFFECTIVE FOR
CHILLI, PAPAYA, TOMATO,
GOURD FAMILY, AND
ALL CROPS



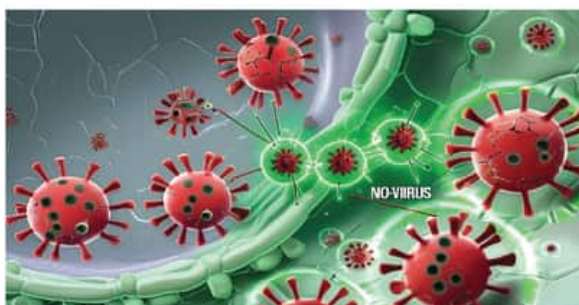
ENHANCES THEIR IMMUNITY TO VIRUS-INDUCED DISEASES.

NO VIRUS

BOTANICAL VIRICIDE

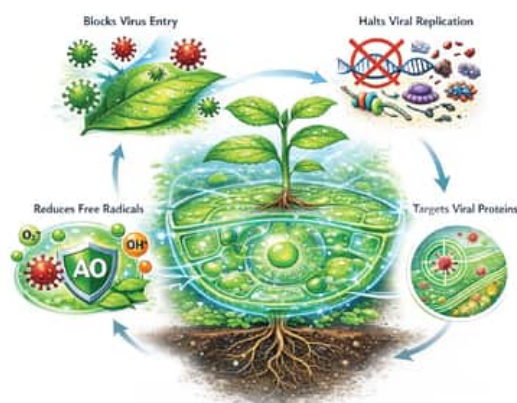
MODE OF ACTION

1. **BLOCKS VIRUS ENTRY** - Interferes with the virus outer layer on plant surfaces, stopping initial contact and preventing viral penetration into tissues.
2. **HALTS VIRAL REPLICATION** - Disrupts viral protein synthesis and multiplication processes, limiting internal spread and reducing infection severity.
3. **ANTIOXIDANT POWER** - Protects cellular structure from oxidative damage caused by viral infection and stress conditions.
4. **TARGETS VIRAL PROTEINS** - Blocks specific viral proteins, preventing viruses from attaching to plant cells and limiting infections in the early stages.
5. **REDUCES FREE RADICALS** - Minimizes virus-induced free radicals, lowering cellular damage and decreasing overall viral infection intensity.



BENEFITS

1. **OPTIMAL VIRUS PREVENTION** - Provides effective preventive and curative virus management solution suitable for various agricultural crops.
2. **ENHANCED PLANT IMMUNITY** - Strengthens plant natural resistance mechanisms, improving tolerance against viral infections and stress factors.
3. **RESIDUE-FREE FARMING** - Botanical formulation ensures no toxic chemical residues, supporting safe and sustainable cultivation practices.
4. **EFFECTIVE AGAINST MULTIPLE VIRUSES** - Controls a wide range of plant viruses, including mosaic viruses, leaf curl viruses, and others.
5. **TOXIC-FREE & SAFE FOR FARMING** - Non-toxic botanical formulation ensures farmer safety, environmental protection, and compatibility with sustainable agricultural practices.



AVAILABLE IN THREE VARIANTS:
 NO-VIRUS - All Crops
 NO-VIRUS - Chilli Special
 NO-VIRUS - Tomato & Cucurbit Special



CONTENT

Unique Combination of Botanical Extracts

APPLICATION AND DOSAGE:

NO VIRUS ALL VARIANTS	PREVENTIVE	CURATIVE
Dosage Per Acre	3 ml per litre of water / 600 ml per Acre	5 ml per litre of water / 1 litre per acre
Dosage Per Hectare	1.5 litre per hectare	2.5 litre per hectare
1st Application	During vegetative stage or Before disease incidence	During disease initiation use No Virus + Suitable insecticide for vector control
2nd Application	15 days after 1st application	After 4 days of 1st application use No Virus along with Vigore and Tabsil
Repeat the application after every 15 days interval.		
Recommendation Use with Vigore (1 gm per litre of water) and Tabsil (1 gm per litre of water)		

For better results, it helps plants relieve biotic stress through vector control and abiotic stress by providing nutritional support

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:

250 ml, 500 ml, 1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Optimum Combination for Better Results

BCN Grow	Vigore	Tabasil
 • Early metabolic and growth activation • Uniform vegetative growth synchronization • Enhanced photosynthesis, strength, uptake	 • Promotes vigorous root and shoot growth. • Improves photosynthesis and yield. • Enhances plant immunity and stress tolerance.	 Highest 12 % Orthosilicic Acid (OSA) effervescent tablet • Healthy crop growth • Prevents lodging • Resists biotic and abiotic stress • Reduces transpiration loss

TRIAL DATA

TRIAL - 1: EFFICACY STUDY OF NO VIRUS AGAINST LEAF CURL VIRUS OF CHILLI.

Location:

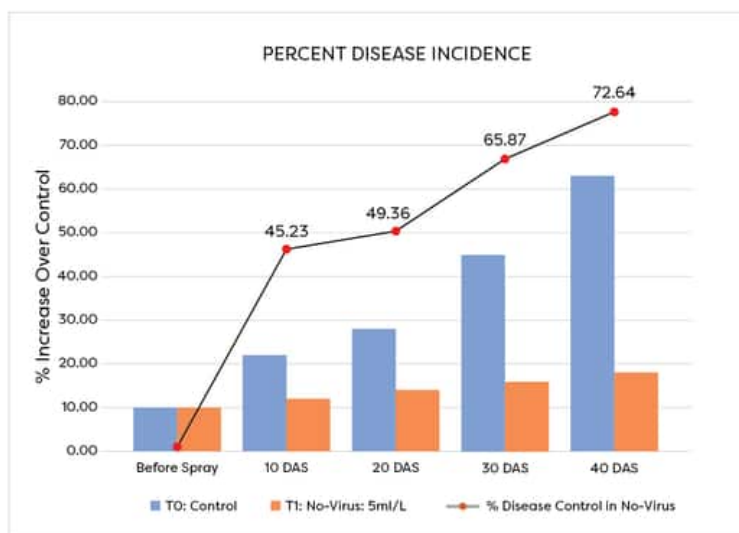
Geolife Research Farm, Pune

Dosage:

Foliar application @ 5 ml/L of water

CONCLUSION:

The treatment demonstrated progressive efficacy from 45.23% control at 10 DAS to 72.64% at 40 DAS, confirming strong antiviral performance and reliable commercial potential for effective viral disease management.



TRIAL PICTURES



Untreated



Treated

No Virus treated (virus free new shoots) and untreated plants (reinfected new shoots)

NO FUNGUS BE

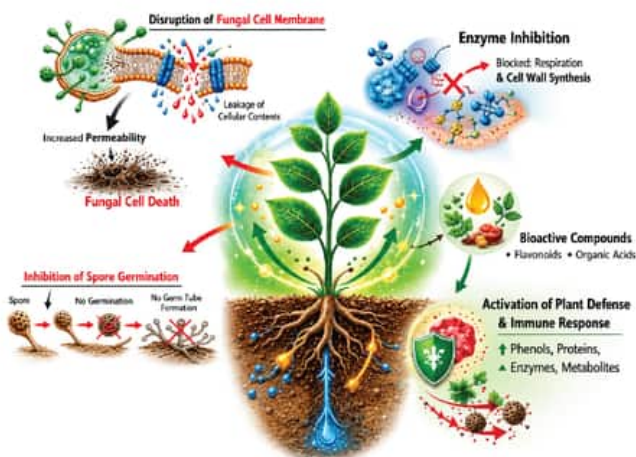
BOTANICAL FUNGICIDE

MODE OF ACTION

- 1. DISRUPTION OF FUNGAL CELL MEMBRANE:** Botanical compounds interact with fungal membranes, disturbing integrity and increasing permeability, causing leakage of cellular contents and fungal death.
- 2. ENZYME INHIBITION:** Bioactive compounds bind fungal enzymes, altering their structure and blocking key processes like respiration and cell wall synthesis, reducing growth.
- 3. INHIBITION OF SPORE GERMINATION:** Organic acids and flavonoids interfere with the early stages of fungal infection by preventing spore germination and germ tube formation.
- 4. ACTIVATES PROPHYLACTIC DEFENCE & IMMUNE RESPONSE:** Enhances plant defence and modulates immune-related compounds, enabling faster, stronger resistance against fungal infections.
- 5. IMPROVES CHLOROPHYLL STABILITY & PHOTOSYNTHETIC EFFICIENCY:** Enhances chlorophyll content and functionality, supporting sustained energy production and quicker recovery under fungal stress.

BENEFITS

- 1. SYSTEMIC & LONG-LASTING ACTION** - Moves systemically within the plant, providing wider internal protection and extended defence against fungal infections.
- 2. PROTECTION AGAINST FUNGAL DISEASES** - Helps control major fungal diseases by restricting pathogen development and minimizing disease spread.
- 3. STRENGTHENED PLANT IMMUNITY** - Activates natural defence mechanisms, making crops more resilient to recurring fungal challenges throughout the crop cycle.
- 4. ENHANCED STRESS TOLERANCE** - Supports plants in managing disease pressure and adverse environmental conditions, improving crop stability and performance.
- 5. PROMOTES VIGOR & GREENER GROWTH** - Maintains healthier leaf colour and plant vigor through improved chlorophyll efficiency, resulting in stronger growth and better crop appearance.



Optimum Combination for Better Results

No Bact



Botanical Bactericide

- Broad-spectrum control of plant pathogenic bacteria
- Disrupts bacterial cell function and biofilm formation
- Eco-friendly, residue-free protection with improved crop health



CONTENT:
Unique Combination of Botanical Extracts

APPLICATION AND DOSAGE:

Foliar:
1-1.5 gm/Ltr of water

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 250 gm,
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



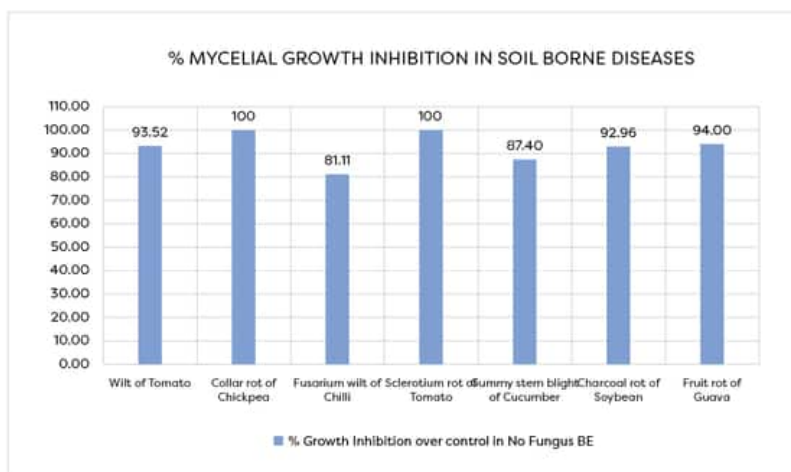
TRIAL DATA

TRIAL - 1 : IN VITRO TRIALS OF NO FUNGUS BE AGAINST SOIL BORNE FUNGAL PATHOGENS.

Location: Geolife Research Farm, Pune
Dosage: Application of No Fungus BE @2 gm/L of water

CONCLUSION:

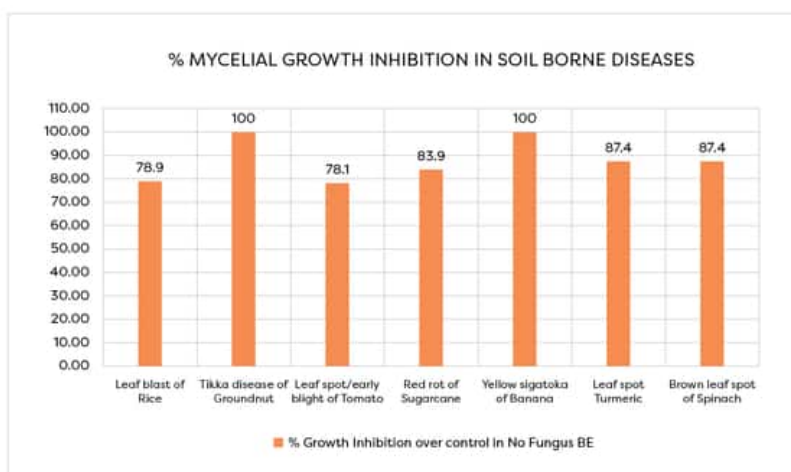
No Fungus BE showed strong broad-spectrum antifungal activity achieving 81% to 100% inhibition/suppression against major soil-borne pathogens, confirming that it has a reliable disease management potential.



TRIAL - 2 : IN VITRO TRIALS OF NO FUNGUS BE AGAINST AIR BORNE FUNGAL PATHOGEN.

CONCLUSION

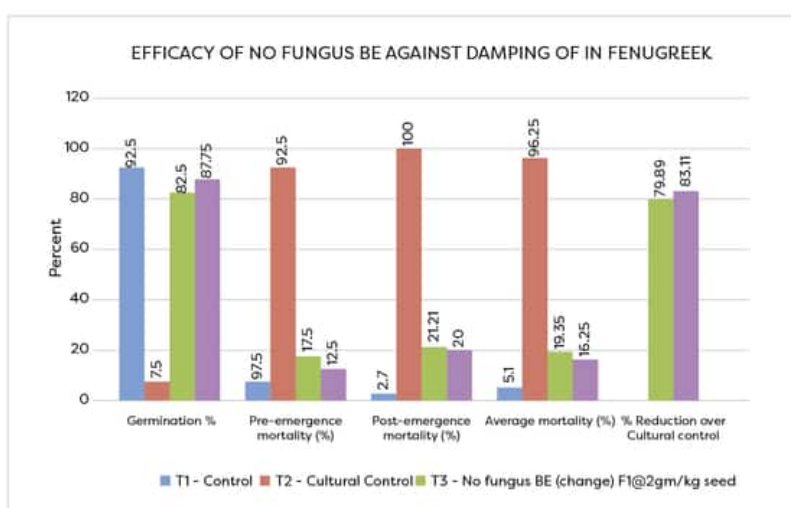
No Fungus BE demonstrated excellent broad-spectrum antifungal activity in in-vitro, achieving 78.1% to 100% inhibition against major foliar fungal diseases, confirming strong efficacy against major foliar fungal diseases.



POT TRIAL

TRIAL - 3 : EVALUATION OF DAMPING-OFF INCIDENCE IN FENUGREEK THROUGH GERMINATION AND MORTALITY PARAMETERS

Location: Geolife Research Farm, Pune



CONCLUSION

The residue-free No Fungus-BE (T3) achieved highly satisfactory results, delivering a 79.89% disease reduction and 82.5% germination, nearly matching the performance of harsh chemical T4 (83.11% reduction). By significantly lowering both pre- and post-emergence mortality compared to the cultural control, No Fungus-BE proves to be a potent, eco-friendly alternative for managing *Pythium aphanidermatum*.



T1: Control T2: Cultural Control T3: No Fungus BE T4: Std. Chemical Check

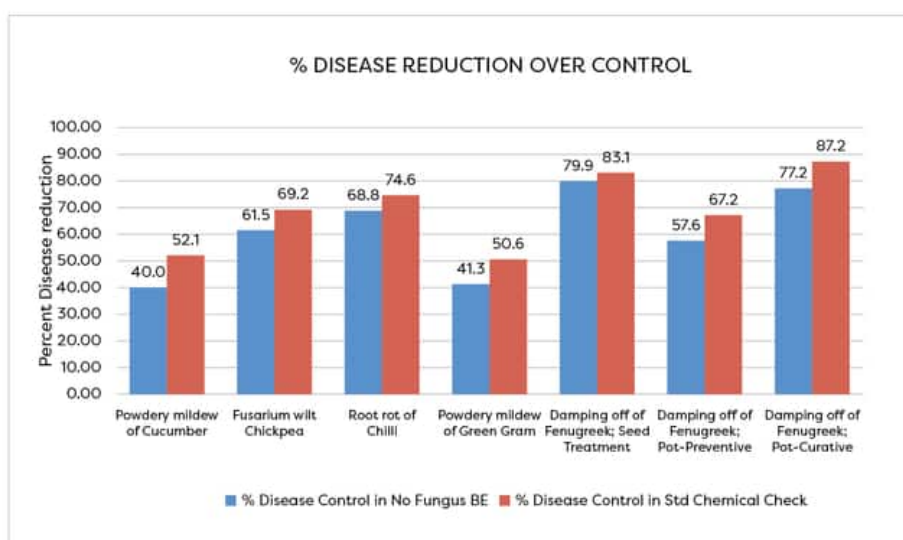
Image 2: Comparative difference in seedling emergence

FIELD TRIAL

TRIAL - 1: EFFECT OF APPLICATION OF NO FUNGUS BE ON DIFFERENT FUNGAL DISEASE OF VARIOUS CROPS.

Location: Geolife Research Farm , Pune.

Dosage: T1: No Fungus BE @ 2 gm/Ltr of water, T2: Market standard Chemicals



CONCLUSION

No Fungus BE delivered scientifically validated disease suppression upto 79.9% across diverse crops, demonstrating consistent, broad-spectrum and dependable biological efficacy, making it a strong contender against the standard harsh chemicals.

TRIAL PICTURES

1. Comparative difference of application of No Fungus BE against Fusarium wilt of Chilli.



T1: Control T2: No Fungus BE T3: Market standard

Mycelial growth of pathogen after 8 days

2. Comparative difference of application of No Fungus BE against Late blight in Tomato.



T1: Control T2: No Fungus BE T3: Market standard

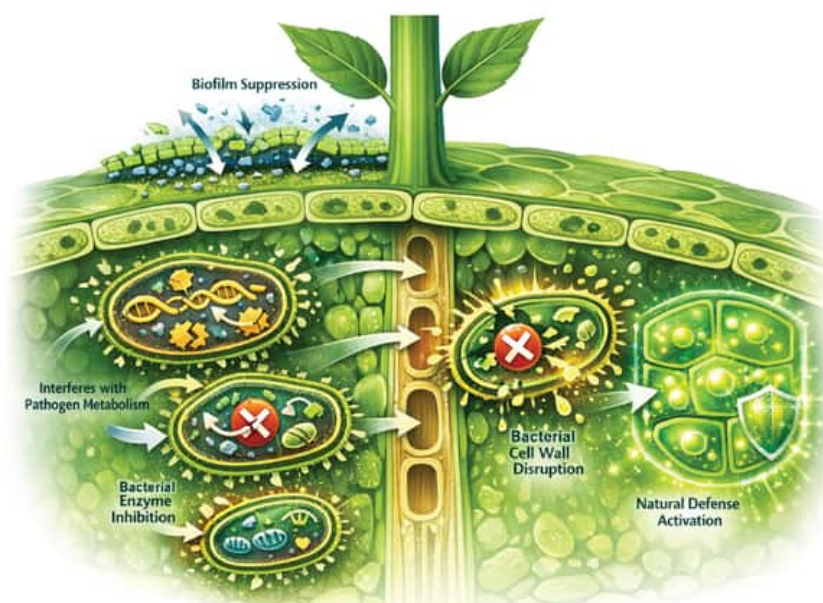
Mycelial growth of pathogen after 8 days

NO BACT

BOTANICAL BACTERICIDE

MODE OF ACTION

1. **INTERFERES WITH PATHOGEN METABOLISM** – Disrupts vital metabolic pathways of bacterial pathogens, inhibiting their growth and survival.
2. **CELL WALL DISRUPTION** – Weakens bacterial cell structures, leading to leakage and cell death.
3. **ENZYME INHIBITION** – Blocks key bacterial enzymes essential for replication and infection.
4. **BIOFILM SUPPRESSION** – Prevents formation and spread of bacterial biofilms on plant surfaces.
5. **NATURAL DEFENSE ACTIVATION** – Stimulates plant defense responses against bacterial infections.



BENEFITS

1. **BROAD-SPECTRUM BACTERIAL CONTROL** – Effective against multiple plant-pathogenic bacteria.
2. **BOTANICAL & ORGANIC** – 100% Plant-based formulation, safe for crops, soil, and beneficial microbes.
3. **RESIDUE-FREE PROTECTION** – Leaves no harmful chemical residues on produce.
4. **PREVENTS RESISTANCE DEVELOPMENT** – Multi-site action reduces risk of bacterial resistance.
5. **IMPROVES CROP HEALTH & YIELD** – Healthier plants with better growth and productivity.



CONTENT:
Unique Combination of Botanical Extracts

APPLICATION AND DOSAGE:
Foliar:
200 gm/Acre or 500 gm/Ha

PACKAGING OPTIONS AVAILABLE
POWDER FORM:
50 gm, 100 gm, 250 gm,
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



MICROBIAL BIOPESTICIDES

A detailed illustration of various microorganisms, including bacteria with long flagella and spherical viruses, set against a dark blue background with a glowing orange light source on the right. The organisms are rendered in a semi-transparent, golden-yellow style, giving them a three-dimensional appearance.

Microbial biopesticides are natural products made from microorganisms like bacteria, fungi, or viruses that control pests and diseases in crops. These biopesticides target specific pests while being safe for humans, animals, and beneficial insects. They offer an eco-friendly, sustainable solution to pest management in agriculture.

AGRO SOLUTIONS

- *Micro Army TRH*
- *Micron Army TRV*
- *Micro Army AMP*
- *Micro Army BS*
- *Micro Army BF*
- *Micro Army PF*
- *Micro Army BB*
- *Micro Army META*
- *Micro Army VL*
- *Micro Army Fungi*
- *Micro Army Ento*

MICRO ARMY TRH

ENCAPSULATED TRICHODERMA HARZIANUM

MODE OF ACTION

1. **MYCOPARASITIC HYPHAL COILING** - Trichoderma harzianum chemically recognizes pathogenic fungi, coils around their hyphae, penetrates cell walls, and consumes internal cellular components.
2. **HYDROLYTIC ENZYME SECRETION** - Secretes chitinases, glucanases, and proteases that enzymatically degrade fungal cell walls, leading to membrane collapse and pathogen mortality.
3. **ANTIFUNGAL METABOLITE PRODUCTION** - Produces secondary metabolites that inhibit fungal respiration, suppress spore germination, and restrict mycelial growth and pathogen colonization.
4. **RHIZOSPHERE COMPETITIVE EXCLUSION** - Rapid colonization of the rhizosphere excludes pathogens by occupying infection sites and preventing pathogen attachment and establishment.
5. **INDUCED SYSTEMIC RESISTANCE ACTIVATION** - Activates jasmonic acid and ethylene-mediated plant defense pathways, strengthening resistance against subsequent fungal pathogen invasion.

BENEFITS

1. **BROAD-SPECTRUM FUNGAL SUPPRESSION** - Effectively suppresses Fusarium, Rhizoctonia, Sclerotium, and Pythium species through multiple antagonistic biological mechanisms.
2. **LONG-LASTING ROOT PROTECTION** - Maintains stable rhizosphere populations that continuously inhibit pathogenic fungi, ensuring prolonged root zone protection.
3. **REDUCED DISEASE SEVERITY** - Limits pathogen multiplication, reducing infection pressure and significantly slowing disease development within crop systems.
4. **PREVENTION OF RE-INFECTION** - Suppresses secondary inoculum formation, reducing repeated disease cycles throughout the crop growth period.
5. **ECO-SAFE DISEASE CONTROL** - Provides effective fungal disease management without phytotoxicity, environmental contamination, or chemical residue accumulation.



Trichoderma harzianum culture



Microscopic view

Biocontrol Potential of Trichoderma harzianum Against Fusarium species



Fusarium sp.

Trichoderma harzianum + Fusarium sp.

Trichoderma harzianum

Biocontrol Potential of Trichoderma harzianum Against Sclerotium species



Sclerotium sp.

Trichoderma harzianum + Sclerotium sp.

Trichoderma harzianum



CONTENT:

Trichoderma harzianum

APPLICATION AND DOSAGE:

Soil:

1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

Seed Treatment:

5-10 gm or ml/Kg of Seed

PACKAGING OPTIONS AVAILABLE

POWDER FORM:

50 gm, 100 gm, 200 gm, 500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:

250 ml, 500 ml, 1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available in Aqueous Solutions (AS) and wettable powder (WP)

AVAILABLE IN CUSTOMIZED FORMULATIONS AT DESIRED DOSAGES

V VEGAN

O ORGANIC

BN BIONANO

N NANO

MICRO ARMY TRV

ENCAPSULATED TRICHODERMA VIRIDE

MODE OF ACTION

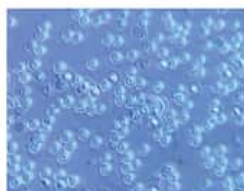
1. **PATHOGEN RECOGNITION MECHANISM** - Detects pathogen-associated molecular patterns and directs hyphal growth precisely toward targeted fungal pathogens.
2. **CELL WALL ENZYMATIC LYSIS** - Produces chitinase and glucanase enzymes that dissolve fungal cell walls and destabilize internal cellular structures.
3. **SECONDARY METABOLITE TOXICITY** - Releases antifungal metabolites that interfere with pathogen metabolic pathways and respiratory enzyme activity.
4. **PROTECTIVE ROOT COLONIZATION** - Forms a biological barrier on root surfaces, physically blocking pathogen attachment and penetration points.
5. **DEFENSE RESPONSE INDUCTION** - Stimulates expression of plant defense genes responsible for antifungal protein and enzyme synthesis.

BENEFITS

1. **EFFECTIVE SOIL-BORNE DISEASE CONTROL** - Controls damping-off, root rot, collar rot, and wilt diseases caused by soil-borne fungal pathogens.
2. **SUSTAINED DISEASE SUPPRESSION** - Ensures prolonged pathogen suppression through persistent antagonistic activity within the rhizosphere.
3. **REDUCED PATHOGEN POPULATION** - Significantly lowers fungal population density in soil and root zone environments.
4. **REDUCED CHEMICAL DEPENDENCY** - Minimizes reliance on chemical fungicides through consistent and effective biological disease suppression.
5. **CROP-SAFE BIOLOGICAL PROTECTION** - Provides reliable disease control without adverse effects on crops or beneficial microorganisms.



Trichoderma viride culture



Microscopic View

Biocontrol Potential of Trichoderma viridae Against Phytophthora species



Trichoderma viridae

Trichoderma viridae + Phytophthora sp.

Phytophthora sp.

Biocontrol Potential of Trichoderma viridae Against Pythium species



Trichoderma viridae

Trichoderma viridae + Pythium sp

Pythium sp



CONTENT:
Trichoderma viride

APPLICATION AND DOSAGE:

Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

Seed Treatment:
5-10 gm or ml/Kg of Seed

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm,
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES



MICRO ARMY AMP

ENCAPSULATED MICROBIAL BIOPESTICIDES

MODE OF ACTION

1. **OBLIGATE MYCOPARASITISM** - Acts as an obligate mycoparasite, directly invading powdery mildew fungi and extracting nutrients from living fungal cells.
2. **CONIDIAL DESTRUCTION ACTIVITY** - Penetrates powdery mildew conidia and destroys spores internally, preventing sporulation and secondary disease spread.
3. **INTRACELLULAR PATHOGEN CONSUMPTION** - Consumes fungal cytoplasm and organelles, causing collapse of powdery mildew hyphae and reproductive structures.
4. **DISEASE CYCLE INTERRUPTION** - Reduces viable pathogen inoculum on plant surfaces, effectively interrupting successive infection cycles.
5. **HOST-SPECIFIC COLONIZATION** - Selectively targets powdery mildew pathogens without affecting beneficial microflora, non-target fungi, or host plant tissues.

BENEFITS

1. **TARGETED POWDERY MILDEW CONTROL** - Provides highly specific and effective biological control of powdery mildew across diverse agricultural crops.
2. **NO NON-TARGET EFFECTS** - Preserves beneficial microorganisms due to strict pathogen-specific parasitic behavior.
3. **RESISTANCE MANAGEMENT SUPPORT** - Reduces repeated chemical fungicide applications, helping delay resistance development in powdery mildew populations.
4. **RESIDUE-FREE DISEASE PROTECTION** - Leaves no chemical residues on harvested produce, supporting residue-sensitive and export markets.
5. **IPM PROGRAM COMPATIBILITY** - Integrates smoothly into integrated pest and disease management programs.



Trichoderma
harzianum culture



Microscopic view

Biocontrol Potential of Ampelomyces quisqualis against Colletotrichum



Ampelomyces
quisqualis

Colletotrichum

Ampelomyces
quisqualis+
Colletotrichum



CONTENT:

Ampelomyces quisqualis

APPLICATION AND DOSAGE:

Foliar:

500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:

50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:

250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES

V VEGAN

O ORGANIC

BN BIONANO

N NANO

MICRO ARMY BS



ENCAPSULATED BACILLUS SUBTILIS

MODE OF ACTION

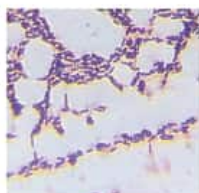
1. **LIPOPEPTIDE ANTIBIOTIC SECRETION** - Produces iturin, surfactin, and fengycin lipopeptides that disrupt fungal membranes, causing leakage and rapid pathogen death.
2. **ENDOSPORE SURVIVAL STRATEGY** - Forms durable endospores enabling survival under adverse environmental conditions and extended storage periods.
3. **BIOFILM-BASED ROOT PROTECTION** - Develops stable biofilms on root surfaces that physically prevent pathogen attachment and colonization.
4. **PATHOGEN QUORUM DISRUPTION** - Interferes with pathogen cell-to-cell signaling systems, reducing virulence factor production and infection capability.
5. **SYSTEMIC RESISTANCE INDUCTION** - Stimulates plant defense enzyme activity, enhancing systemic resistance against pathogen invasion.

BENEFITS

1. **BROAD ANTIFUNGAL EFFICACY** - Controls a wide range of fungal pathogens across multiple crops and environmental conditions.
2. **EXCELLENT PRODUCT STABILITY** - Ensures long shelf life and consistent field performance due to endospore formation.
3. **REDUCED DISEASE INCIDENCE** - Suppresses early pathogen establishment and limits disease spread effectively.
4. **RESIDUE-FREE CROP SAFETY** - Safe for harvested produce without chemical residue concerns.
5. **ECO-FRIENDLY DISEASE SOLUTION** - Provides a sustainable and environmentally safe alternative to synthetic fungicides.



Bacillus subtilis culture



Microscopic view

Biocontrol Potential of Bacillus subtilis against Phomopsis



Bacillus subtilis

Phomopsis

Bacillus subtilis + Phomopsis



CONTENT:
Bacillus subtilis

APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available in Aqueous Solutions (AS) and wettable powder (WP)

AVAILABLE IN CUSTOMIZED FORMULATIONS AT DESIRED DOSAGES

V VEGAN

O ORGANIC

BN BIONANO

N NANO

MICRO ARMY BF

ENCAPSULATED BACILLUS FIRMUS

MODE OF ACTION

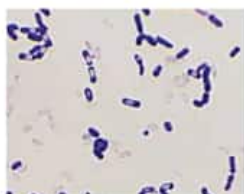
1. **NEMATODE CUTICLE DEGRADATION** - *Bacillus firmus* secretes powerful proteolytic enzymes that degrade nematode cuticle proteins, causing paralysis and eventual nematode death.
2. **EGG SHELL PENETRATION ACTIVITY** - The bacterium penetrates and degrades nematode egg shells, preventing egg hatching and significantly reducing future nematode population buildup.
3. **RHIZOSPHERE COLONIZATION BARRIER** - Actively colonizes the rhizosphere, forming a protective microbial barrier that restricts nematode movement toward plant roots.
4. **NEMATOTOXIC METABOLITE PRODUCTION** - Produces nematotoxic metabolites that disrupt nematode metabolism, mobility, feeding behavior, and long-term survival in soil environments.
5. **SOIL ENVIRONMENT MODIFICATION** - Alters the soil microenvironment, creating unfavorable conditions that suppress nematode survival, reproduction, and infestation potential.

BENEFITS

1. **EFFECTIVE NEMATODE POPULATION REDUCTION** - Significantly reduces root-knot and cyst nematode populations, lowering overall nematode pressure in infested agricultural fields.
2. **REDUCED ROOT DAMAGE** - Minimizes gall formation and nematode-induced root injury, allowing healthier root development and improved nutrient uptake.
3. **LONG-TERM SOIL SUPPRESSION** - Provides sustained nematode suppression through persistent rhizosphere activity and continuous microbial dominance around roots.
4. **CROP-SAFE BIOLOGICAL CONTROL** - Remains non-toxic to crops, beneficial microorganisms, earthworms, and overall soil ecological balance.
5. **SUSTAINABLE NEMATODE MANAGEMENT** - Supports environmentally responsible and sustainable nematode management strategies without reliance on synthetic nematicides.



Bacillus firmus culture



Microscopic view

Biocontrol Potential of Bacillus subtilis against Phomopsis



Bacillus firmus

Sclerotium

Bacillus firmus
+ Sclerotium



CONTENT:
Bacillus firmus

APPLICATION AND DOSAGE:

Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES

V VEGAN

O ORGANIC

BN BIONANO

N NANO

MICRO ARMY PF

ENCAPSULATED PSEUDOMONAS FLUORESCENS

MODE OF ACTION

1. **SIDEROPHORE IRON CHELATION** - *Pseudomonas fluorescens* produces high-affinity siderophores that chelate iron, depriving pathogenic microorganisms of essential nutrients required for growth.
2. **ANTIBIOTIC COMPOUND PRODUCTION** - Secretes antibiotic compounds such as phenazines and pyoluteorin that inhibit pathogen respiration and disrupt critical metabolic pathways.
3. **RAPID ROOT SURFACE COLONIZATION** - Rapidly colonizes root surfaces and infection sites, effectively preventing pathogen establishment and subsequent disease development.
4. **SYSTEMIC RESISTANCE ACTIVATION** - Activates salicylic acid-mediated defense signaling pathways, enhancing systemic resistance and strengthening plant immune responses.
5. **PROTECTIVE BIOFILM FORMATION** - Forms stable biofilms on root surfaces that physically restrict pathogen penetration, survival, and proliferation in the rhizosphere.

BENEFITS

1. **STRONG DISEASE SUPPRESSION** - Provides effective suppression of major soil-borne fungal pathogens affecting a wide range of agricultural crops.
2. **REDUCED INFECTION INITIATION** - Prevents early-stage pathogen establishment, significantly reducing the likelihood of disease initiation in treated crops.
3. **ENHANCED PLANT DEFENSE CAPABILITY** - Improves internal plant defense mechanisms, increasing resistance against subsequent pathogen invasion and disease spread.
4. **RESIDUE-FREE DISEASE MANAGEMENT** - Ensures disease control without leaving chemical residues, supporting export, organic, and residue-sensitive crop production systems.
5. **ECO-COMPATIBLE APPLICATION** - Offers an environmentally safe, sustainable, and eco-compatible biological solution for integrated disease management programs.



Pseudomonas fluorescens Culture



Microscopic View

Biocontrol Potential of *Bacillus subtilis* against *Phomopsis*



Pseudomonas fluorescens

Phytophthora

Phytophthora + *Pseudomonas fluorescens*



CONTENT:

Pseudomonas fluorescens

APPLICATION AND DOSAGE:

Foliar:

500 gm or 500 ml/Acre & 1.25 Kg or 1.25 Ltr/Ha

Soil:

1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

Seed Treatment:

5-10 gm or ml/Kg of Seed

PACKAGING OPTIONS AVAILABLE

POWDER FORM:

50 gm, 100 gm, 200 gm, 500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:

250 ml, 500 ml, 1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available in Aqueous Solutions (AS) and wettable powder (WP)

AVAILABLE IN CUSTOMIZED FORMULATIONS AT DESIRED DOSAGES

V VEGAN

O ORGANIC

BN BIONANO

N NANO

MICRO ARMY BB

ENCAPSULATED BEAUVERIA BASSIANA

MODE OF ACTION

1. **CUTICULAR ADHESION AND GERMINATION** - Beauveria bassiana conidia firmly adhere to the insect cuticle, germinate, and initiate infection under favorable environmental conditions.
2. **ENZYMATIC CUTICLE PENETRATION** - Secretes proteases, lipases, and chitinases that enzymatically degrade insect cuticle, allowing successful penetration into the host body.
3. **INTERNAL HEMOCOEL COLONIZATION** - After penetration, the fungus proliferates within the insect hemocoel, disrupting vital physiological and metabolic processes.
4. **TOXIN PRODUCTION INSIDE HOST** - Produces insecticidal toxins such as beauvericin that cause paralysis, immune suppression, and eventual insect mortality.
5. **SECONDARY SPORULATION CYCLE** - Sporulates externally on insect cadavers after death, releasing new infective conidia for continued field persistence.

BENEFITS

1. **BROAD-SPECTRUM INSECT CONTROL** - Effectively controls a wide range of sucking and chewing insect pests across diverse agricultural and horticultural crops.
2. **RESISTANCE-FREE MODE OF ACTION** - Employs a biological infection mechanism that minimizes the risk of resistance development in insect pest populations.
3. **SAFE TO BENEFICIAL INSECTS** - Shows minimal adverse effects on beneficial insects, pollinators, and natural enemies when applied as recommended.
4. **RESIDUE-FREE PEST CONTROL** - Provides effective pest management without leaving harmful chemical residues on harvested produce.
5. **IPM-COMPATIBLE BIOINSECTICIDE** - Integrates seamlessly into integrated pest management programs alongside other biological and chemical control measures.



Beauveria bassiana
Culture



Microscopic view

Entomopathogenic Action of Beauveria bassiana on Insect Larvae



Untreated:
Healthy larvae in control



Treated:
Beauveria bassiana
Infected Larvae

Entomopathogenic Action of Beauveria bassiana on Aphids



Untreated:
Healthy Aphid



Treated:
Beauveria bassiana
Infected Aphid



CONTENT:
Beauveria bassiana

APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES



MICRO ARMY META

ENCAPSULATED METARHIZIUM ANISOPLIA

MODE OF ACTION

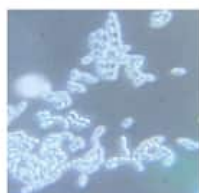
1. **INSECT CUTICLE RECOGNITION** - Metarhizium anisopliae recognizes specific insect cuticular hydrocarbons, enabling host-specific attachment and precise initiation of infection processes.
2. **ENZYMATIC CUTICLE PENETRATION** - Secretes proteases, chitinases, and lipases while applying mechanical pressure to effectively breach multiple layers of the insect cuticle.
3. **HEMOLYMPH INVASION** - Following penetration, the fungus colonizes insect hemolymph, disrupting metabolic functions and impairing vital physiological systems.
4. **DESTRUXIN TOXIN SECRETION** - Produces destruxin toxins that induce paralysis, suppress insect immune responses, and ultimately lead to insect death.
5. **ENVIRONMENTAL PERSISTENCE MECHANISM** - After host mortality, sporulates on insect cadavers, ensuring prolonged field persistence and continuous biological pest suppression.

BENEFITS

1. **EFFECTIVE SOIL PEST CONTROL** - Provides effective control of termites, white grubs, borers, and other soil-dwelling insect pests across crops.
2. **LONG-TERM PEST SUPPRESSION** - Ensures sustained pest suppression through soil persistence, recycling of spores, and repeated natural infection cycles.
3. **ECO-SAFE INSECT MANAGEMENT** - Remains non-toxic to crops, humans, livestock, and beneficial organisms, ensuring safe ecological compatibility.
4. **RESISTANCE MANAGEMENT TOOL** - Reduces risk of pest resistance development due to its unique biological infection-based mode of action.
5. **REDUCED CROP DAMAGE** - Minimizes insect feeding damage, improving crop health, productivity, and overall yield performance.



Metarhizium
anisopliae culture



Microscopic view

Entomopathogenic Action of Metarhizium anisopliae on Insect Larvae



Untreated:
Healthy larvae



Treated:
Metarhizium anisopliae
Infected Larvae

Entomopathogenic Action of Metarhizium anisopliae on Aphids



Untreated:
Healthy Aphid



Treated:
Metarhizium Infected Aphid



CONTENT:
Metarhizium anisopliae
APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha
Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES



MICRO ARMY VL

ENCAPSULATED VERTICILLIUM LECANII

MODE OF ACTION

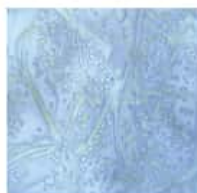
1. **DIRECT CUTICLE PENETRATION** - Verticillium lecanii penetrates soft-bodied insect cuticles by secreting specialized enzymes that degrade protective cuticular layers.
2. **INTERNAL TISSUE MULTIPLICATION** - After penetration, the fungus multiplies rapidly inside insect tissues, severely disrupting normal physiological and metabolic processes.
3. **TOXIN-INDUCED FEEDING CESSATION** - Produces insecticidal toxins that cause immediate feeding inhibition, paralysis, and progressive weakening leading to insect mortality.
4. **SECONDARY SPORULATION DEVELOPMENT** - Following host death, the fungus sporulates on insect cadavers, releasing fresh infective spores into the surrounding environment.
5. **HUMIDITY-DEPENDENT INFECTION** - Performs optimally under high humidity conditions, which enhance spore germination, cuticle penetration, and infection efficiency.

BENEFITS

1. **EFFECTIVE SUCKING PEST CONTROL** - Provides efficient control of aphids, whiteflies, thrips, and mealybugs across vegetable, fruit, and protected cultivation systems.
2. **RAPID PEST POPULATION REDUCTION** - Fast infection and multiplication cycles result in a rapid decline of sucking pest populations under favorable conditions.
3. **SAFE FOR BENEFICIAL ORGANISMS** - Demonstrates minimal adverse effects on beneficial insects, natural predators, and pollinators when applied as recommended.
4. **RESIDUE-FREE CROP PROTECTION** - Ensures harvested produce remains free from chemical residues, supporting compliance with export and food safety standards.
5. **Sustainable Pest Management Solution** - Supports long-term ecological balance by providing an environmentally safe and biologically sustainable pest management approach.



Verticillium
lecanii Culture



Microscopic
view Verticillium

Entomopathogenic Action of Verticillium lecanii on aphids



Untreated:
Healthy Aphids



Treated:
Verticillium Infected Aphids



CONTENT:
Verticillium lecanii

APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES

V VEGAN

O ORGANIC

BN BIONANO

N NANO

MICRO ARMY FUNGI

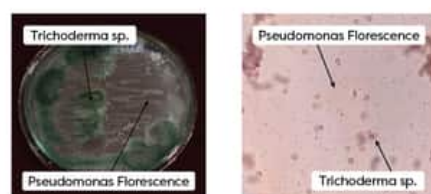
ENCAPSULATED MICROBIAL BIOPESTICIDES

MODE OF ACTION

- MYCOPARASITIC ATTACK ON PATHOGENS** - *Trichoderma* spp. recognize pathogenic fungi, coil around their hyphae, penetrate cell walls, and destroy internal cellular structures.
- ENZYMATIC CELL WALL DEGRADATION** - Secretion of chitinases, glucanases, and proteases breaks down fungal cell walls, causing membrane collapse and pathogen mortality.
- ANTIMICROBIAL & ANTIBIOTIC METABOLITE PRODUCTION** - Releases antifungal metabolites and antibiotics that inhibit pathogen respiration, spore germination, and mycelial growth.
- RHIZOSPHERE COLONIZATION & NUTRIENT COMPETITION** - Rapid colonization of root zones and iron chelation through siderophore production prevents pathogen establishment and survival.
- Induced Systemic Resistance (ISR)** - Activates salicylic acid, jasmonic acid, and ethylene-mediated plant defense pathways, enhancing long-term disease resistance.

BENEFITS

- BROAD-SPECTRUM SOIL-BORNE DISEASE CONTROL** - Effectively controls wilt, root rot, damping-off, and collar rot caused by *Fusarium*, *Rhizoctonia*, *Sclerotium*, and *Pythium*.
- LONG-LASTING ROOT ZONE PROTECTION** - Establishes a stable beneficial microbial population, ensuring continuous disease suppression throughout the crop cycle.
- REDUCED DISEASE INCIDENCE & SEVERITY** - Limits pathogen multiplication, lowers infection pressure, and significantly slows disease development.
- IMPROVED ROOT HEALTH & PLANT VIGOR** - Enhances root growth, nutrient uptake, and overall plant strength, supporting better crop performance.
- ECO-SAFE, RESIDUE-FREE SOLUTION** - Non-phytotoxic, environmentally safe, and suitable for organic farming and export-oriented crops.



Micro Army
Fungi culture

Microscopic view



CONTENT:
Trichoderma harzianum, *Trichoderma viride*, *Pseudomonas fluorescens*

APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

Seed Treatment:
5-10 gm or ml/Kg of Seed

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES

V VEGAN
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N NANO

Available combinations of microbial biopesticides against different diseases

Sr. No.	Name of Combination	Diseases
1	<i>Trichoderma harzianum</i> + <i>Trichoderma viride</i>	<i>Fusarium</i> Wilt, <i>Phytophthora</i> root rot, <i>Pythium</i> damping-off, Rhizome rot, <i>Botrytis</i> blight (gray mold), <i>Sclerotium</i> rot, <i>Rhizoctonia</i> root rot, <i>Verticillium</i> wilt
2	<i>Trichoderma harzianum</i> + <i>Trichoderma viride</i> + <i>Pseudomonas fluorescens</i>	<i>Fusarium</i> Wilt, <i>Phytophthora</i> root rot, <i>Pythium</i> damping-off, Rhizome rot, <i>Botrytis</i> blight (gray mold), <i>Sclerotium</i> rot, <i>Rhizoctonia</i> root rot, <i>Verticillium</i> wilt, Bacterial wilt, Black rot, Bacterial spot, Sheath blight, <i>Phytophthora</i> , Anthracnose

MICRO ARMY ENTO

CONSORTIUM OF ENCAPSULATED BENEFICIAL FUNGI

MODE OF ACTION

- CUTICULAR ADHESION & ENZYMATIC PENETRATION** - Entomopathogenic fungal spores adhere to the insect cuticle, germinate, and penetrate by secreting proteases, chitinases, and lipases that degrade cuticular layers.
- INTERNAL COLONIZATION & METABOLIC DISRUPTION** - After penetration, the fungi proliferate within the insect hemocoel or tissues, disrupting vital physiological and metabolic processes.
- INSECTICIDAL TOXIN PRODUCTION** - Produces bio-toxins such as beauvericin and destruxins that cause feeding cessation, paralysis, immune suppression, and eventual insect mortality.
- SECONDARY SPORULATION & RECYCLING** - After insect death, fungi sporulate on cadavers, releasing fresh infective spores that enable continuous infection cycles and field persistence.
- HUMIDITY-DRIVEN INFECTION EFFICIENCY** - Performs optimally under favorable humidity conditions, enhancing spore germination, infection success, and rapid pest suppression.

BENEFITS

- BROAD-SPECTRUM INSECT PEST CONTROL** - Effectively controls sucking and chewing pests such as aphids, whiteflies, thrips, mealybugs, termites, white grubs, and borers.
- RESISTANCE-FREE PEST MANAGEMENT** - Biological infection-based mode of action minimizes the risk of resistance development in insect pest populations.
- LONG-LASTING & SUSTAINABLE CONTROL** - Ensures prolonged pest suppression through spore recycling, soil persistence, and repeated natural infection cycles.
- SAFE TO BENEFICIAL ORGANISMS** - Non-toxic to crops, humans, livestock, pollinators, and natural enemies when applied as recommended.
- RESIDUE-FREE & IPM COMPATIBLE** - Leaves no chemical residues on produce and integrates seamlessly into Integrated Pest Management (IPM) programs and export-oriented agriculture.



Micro Army
Ento Culture



Microscopic view



CONTENT:
Beauveria bassiana, Verticillium lecanii,
Metarhizium anisopliae

APPLICATION AND DOSAGE:

Foliar:
500 gm or 500 ml/Acre &
1.25 Kg or 1.25 Ltr/Ha

Soil:
1 Kg or 1 Ltr/Acre & 2.5 Kg or 2.5 Ltr/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 200 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC

Note: Customized formulations available
in Aqueous Solutions (AS) and wettable
powder (WP)

**AVAILABLE IN CUSTOMIZED
FORMULATIONS AT DESIRED DOSAGES**

V VEGAN

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BN BIONANO

N NANO

Available combinations of microbial biopesticides against different pests

Sr. No.	Name of Combination	Pest
1	Verticillium lecanii + Metarhizium anisopliae	White Grub, Termite, Cutworm, Looper, Mealybugs, Aphids, Thrips, Mites, Brown Plant Hopper, Jassids
2	Beauveria bassiana + Metarhizium anisopliae	White Grub, Termite, Cutworm, Looper, Mealybugs, Aphids, Helicoverpa, Spodoptera, DBM, Scales, Hairy caterpillars, Whitefly
3	Beauveria bassiana Verticillium lecanii, Metarhizium anisopliae	White Grub, Termite, Cutworm, Looper, Mealybugs, Aphids, Helicoverpa, Spodoptera, DBM, Scales, Hairy caterpillars, Whitefly, Thrips, Mites, Brown Plant Hopper, Jassids



CROP PROTECTION BY NUTRITION

Nutrient-based solutions enhance plant defense mechanisms, improving resistance to diseases and environmental stress. Key nutrients like silicon, calcium, and magnesium strengthen cell walls, boost immunity, and help plants recover from fungal infections, drought, and cold stress, promoting healthier growth and higher yields.

AGRO SOLUTIONS

- *Tabsil*
- *SilCaMag*
- *Nano Silicon*
- *No Fungus Cu*
- *Nano Silver*
- *Aqualock*
- *Treat*



SETTING A NEW STANDARD
FOR CROP PROTECTION

SILCAMAG
AND TABSIL

BODYGUARDS FOR
ROOTS AND FOLIAGE



SilCaMag and Tabsil contain silicon, which forms a strong epidermal layer and acts like bodyguards.

TABSIL



BIOTIC AND ABIOTIC STRESS RESISTANCE BUILDER

MODE OF ACTION

- 1. EPIDERMAL & SILICA SHIELD STRENGTHENING** - Deposits bioavailable silicon in epidermal tissues, forming a protective silica layer that strengthens cell walls and reduces stress damage.
- 2. PEST BARRIER ACTIVATION** - Creates a physical barrier against sucking pests while improving stomatal regulation under drought and heat stress conditions.
- 3. CELL WALL REINFORCEMENT** - Enhances structural rigidity by silicon deposition, increasing resistance against both biotic and abiotic stresses.
- 4. WATER BALANCE REGULATION** - Optimizes transpiration rate and improves water retention capacity during heat, moisture, and environmental stress.
- 5. NUTRIENT UPTAKE ENHANCEMENT** - Improves membrane permeability, supporting efficient nutrient absorption and internal translocation throughout the plant system.



CONTENT:
12% Orthosilicic acid + Unique Microbial Extracts

APPLICATION AND DOSAGE:

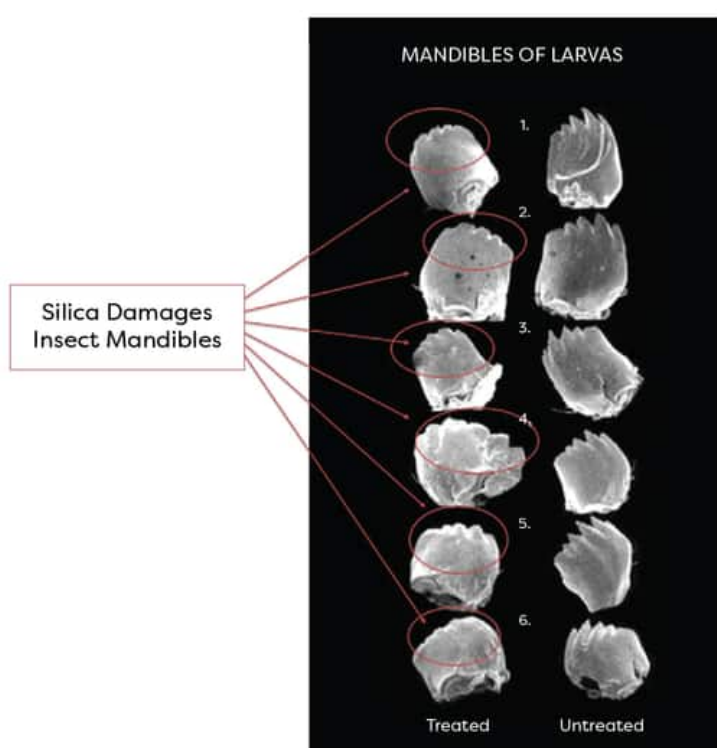
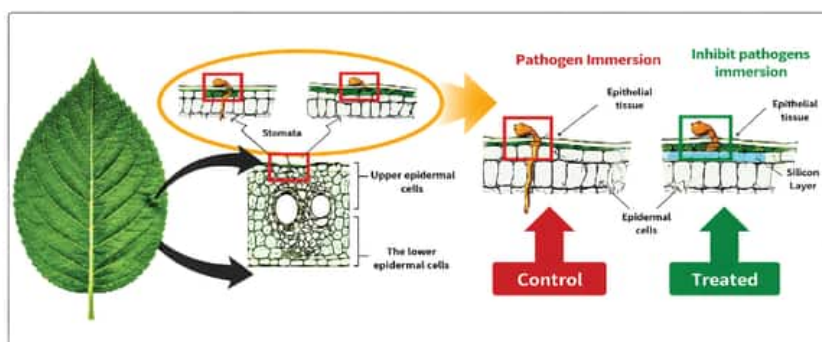
Foliar:
1 gm/Ltr of water

PACKAGING OPTIONS AVAILABLE

TABLET FORM:
100 gm, 200 gm, 500 gm, 1 Kg

OPTIMUM COMBINATION FOR BETTER RESULTS:

It can be applied along with all Geolife's foliar application products.



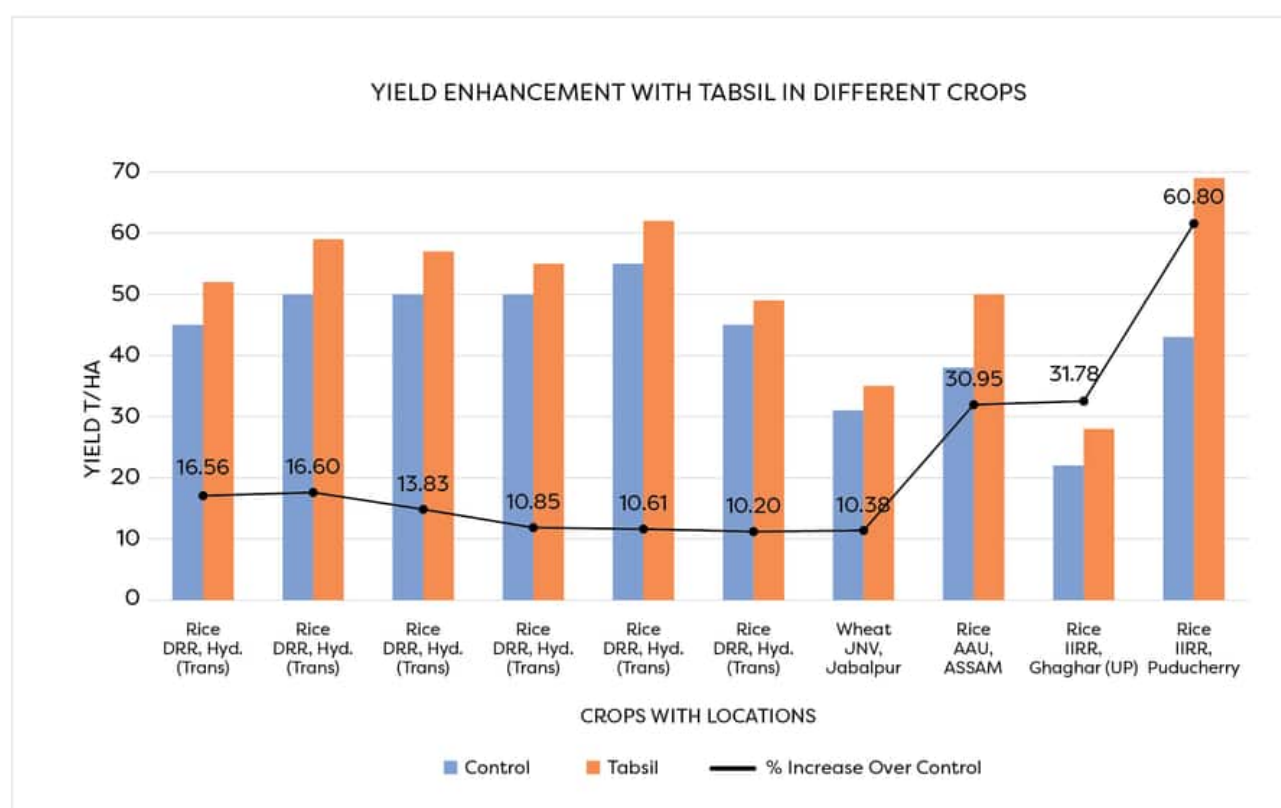
V VEGAN
O ORGANIC
BN BIONANO
N NANO

BENEFITS

1. **ENHANCED PLANT DEFENSE** - Boosts natural defense system by strengthening tissues and reducing pathogen and pest penetration.
2. **IMPROVED STRESS TOLERANCE** - Increases resilience to drought, salinity, temperature fluctuations, and oxidative stress conditions.
3. **OPTIMIZED NUTRIENT EFFICIENCY** - Enhances uptake and utilization of macro and micronutrients for balanced crop growth.
4. **STRONGER PLANT STRUCTURE** - Improves stem strength and lodging resistance, supporting better crop stability and yield performance.
5. **HIGHER PHOTOSYNTHETIC EFFICIENCY** - Supports chlorophyll activity and carbon fixation, leading to improved biomass accumulation and productivity.

TRIAL DATA

TRIAL - 1: EFFECT OF TABSIL ON GROWTH AND YIELD CONTRIBUTING PARAMETERS OF WHEAT AND RICE AT DIFFERENT LOCATIONS.



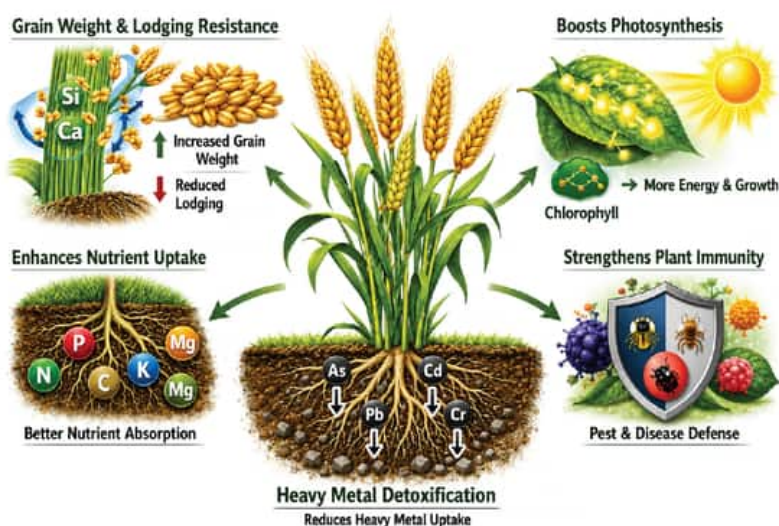
CONCLUSION

Tabsil application resulted in significant yield improvement across different rice and wheat trials, with yield ranging from 10% to 60 % increase over control. The results indicate improved nutrient efficiency, stronger crop growth, and enhanced productivity under diverse cultivation conditions.

SILICON BASED SOIL ENHANCER

MODE OF ACTION

- CELL WALL FORTIFICATION AND STRUCTURAL REINFORCEMENT** - Silicon and calcium deposition enhance cell wall lignification and structural integrity, improving stem strength, grain filling, and lodging resistance.
- ENHANCED RHIZOSPHERE NUTRIENT DYNAMICS** - Improves root membrane permeability and transporter activity, optimizing mineral uptake, translocation, and balanced plant nutrition.
- PHOTOSYNTHETIC ACTIVATION AND ENERGY METABOLISM** - Magnesium-mediated chlorophyll biosynthesis and enzymatic activation enhance photosynthetic efficiency and carbohydrate assimilation.
- INDUCED SYSTEMIC RESISTANCE MECHANISM** - Stimulates phytoalexin synthesis and defense-related metabolites, strengthening resistance against biotic and abiotic stresses.
- HEAVY METAL CHELATION AND DETOXIFICATION** - Facilitates immobilization and sequestration of toxic heavy metals, reducing translocation and enhancing crop safety.



BENEFITS

- LESS DAMAGE FROM INSECTS, PESTS & DISEASES** - Improves structural strength and defence response, reducing susceptibility to insect attacks and disease infections.
- LODGING RESISTANCE** - Enhances stem thickness and rigidity, preventing crop fall-over during wind, rain, or heavy grain load.
- INCREASES YIELDS SIGNIFICANTLY** - Promotes grain filling, and nutrient efficiency, resulting in higher and stable crop yields.
- MINIMIZES CULTIVATION COSTS** - Reduces biotic and abiotic stresses, minimizing reliance on pesticides and corrective fertilizers thereby lowering overall input costs.
- SUITABLE FOR POISON-FREE & RESIDUE-FREE FARMING** - Supports sustainable cultivation by minimizing harmful residues, ensuring safer produce for consumers and export markets.



CONTENT:
Silicon + Calcium + Magnesium + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Soil:
20 Kg/Acre or 50 Kg/Ha

PACKAGING OPTIONS AVAILABLE

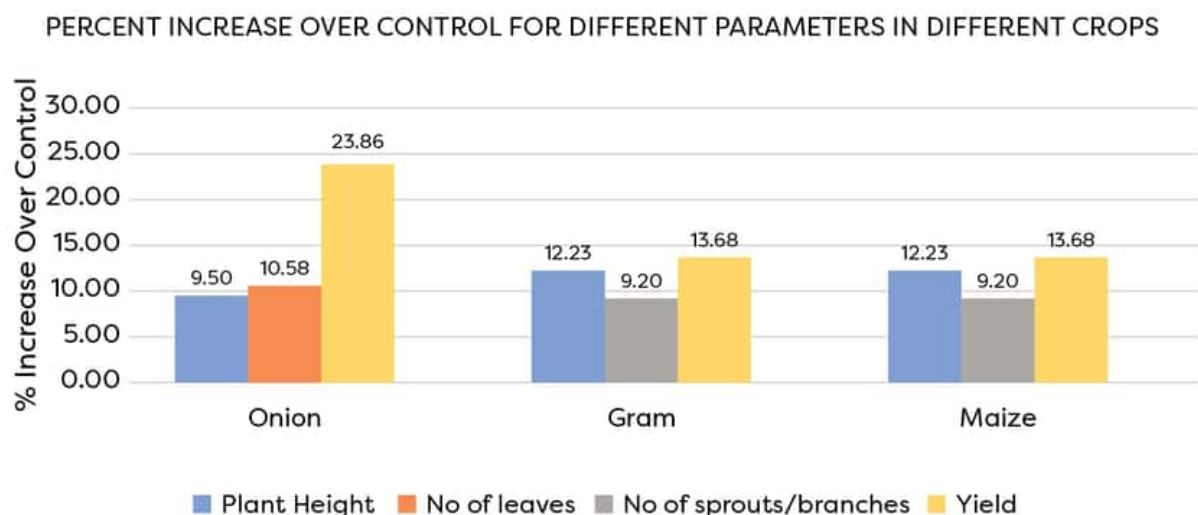
POWDER FORM:
5 Kg, 20 Kg



TRIAL DATA

TRIAL - 1: EFFECT OF SOIL APPLICATION OF SILCAMAG ON GROWTH AND YIELD OF VARIOUS CROPS.

LOCATION: Jalgaon, Maharashtra, India
 DOSAGE: Soil application at 20 Kg/Acre



CONCLUSION -

Over multiple crops like Onion, Gram and Maize the SilCaMag has shown significantly enhanced morphological growth and seed yield, achieving 13-23% higher productivity over control and improving overall crop profitability.

TRIAL PICTURE

1. Comparative difference of application SilCaMag on Gram.



Growth differences at 35 days after application of SilCaMag (Ultramax) in gram

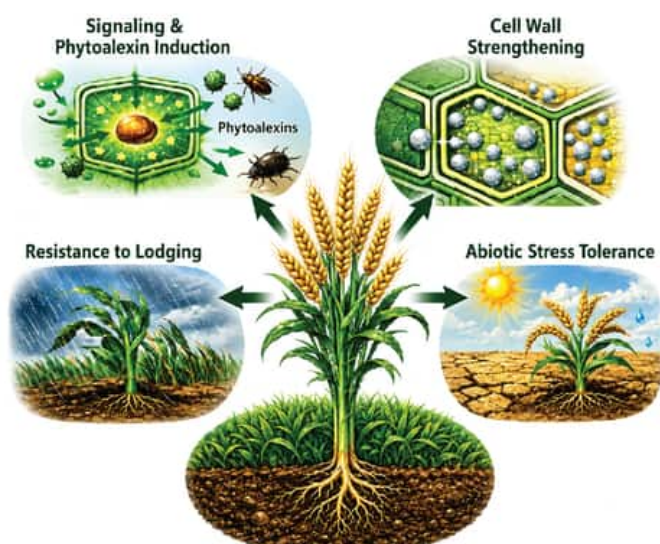
NANO SILICON



NANO TECHNOLOGY BASED ORTHO SILICIC ACID

MODE OF ACTION

1. **SIGNALING & PHYTOALEXIN INDUCTION** - Activates plant defence signalling pathways, stimulating phytoalexin production that enhances resistance against pathogens and insect attacks.
2. **CELL WALL STRENGTHENING** - Deposits bioavailable silicon within cell walls, improving rigidity, mechanical strength, and overall structural stability of plant tissues.
3. **RESISTANCE TO LODGING** - Enhances stem strength and thickness, reducing crop lodging risk under heavy wind, rain, and high nitrogen conditions.
4. **ABIOTIC STRESS TOLERANCE** - Improves tolerance to drought, heat, and salinity stress by regulating physiological balance and minimizing cellular damage.
5. **IMPROVED NUTRIENT UTILIZATION** - Enhances nutrient uptake efficiency and internal translocation, supporting balanced growth and improved metabolic performance.



BENEFITS

1. **ENHANCED PLANT IMMUNITY** - Strengthens natural defense mechanisms, reducing susceptibility to fungal diseases, insect pests, and environmental stress conditions.
2. **REDUCED PEST DAMAGE** - Silicon-fortified tissues deter feeding insects, minimizing crop damage and lowering dependency on chemical interventions.
3. **IMPROVED LODGING RESISTANCE** - Stronger stems maintain upright growth, ensuring better photosynthesis, easier harvesting, and minimized yield losses.
4. **WIDE CROP APPLICABILITY** - Suitable for cereals, fruits, vegetables, and plantation crops, delivering consistent performance across diverse agricultural systems.
5. **SIGNIFICANT YIELD BOOST** - Promotes healthier plant growth, stronger structural integrity, and improved productivity resulting in higher marketable yields.



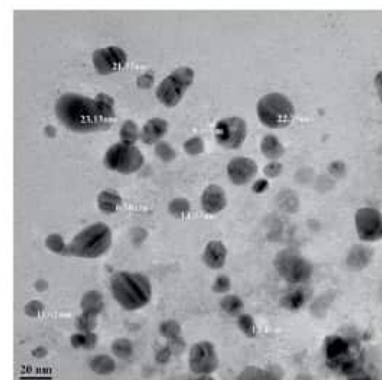
N

CONTENT:
Orthosilicic Acid 2%

APPLICATION AND DOSAGE:
Foliar:
2 ml/Ltr of water

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
100 ml, 250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC



Transmission Electron Microscopic
Analysis of Silicon Nano Particles

V VEGAN
O ORGANIC
BN BIONANO
N NANO

NO FUNGUS Cu

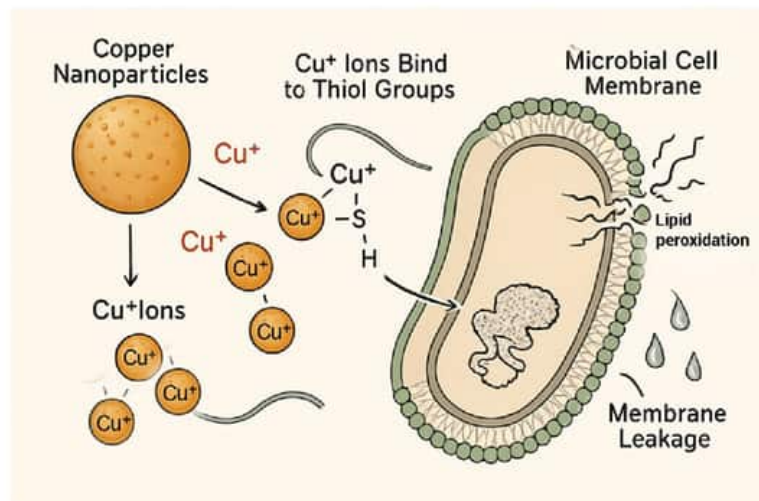
NANO TECHNOLOGY BASED BROAD SPECTRUM FUNGICIDE

MODE OF ACTION

- CONTACT PROTECTION** - Copper remains on the plant surface and acts only at the site of deposition, forming a protective barrier.
- ION RELEASE & ENZYME DENATURATION** - In the presence of moisture, copper releases Cu^{2+} ions that denature fungal enzymes and proteins, disrupting vital cell functions.
- MEMBRANE DAMAGE & GROWTH INHIBITION** - Copper damages fungal cell membranes, causing leakage and cell death, while inhibiting spore germination and mycelial growth.
- OXIDATIVE DNA DAMAGE** - CuNPs generate $\cdot\text{OH}$ radicals via Fenton reaction, which fragments pathogen DNA and suppresses ergosterol synthesis in fungi.
- PROTEIN BINDING EFFECTS** - Cu^{2+} ions bind to thiol ($-\text{SH}$) groups in microbial proteins, causing lipid peroxidation, membrane leakage, and enzyme denaturation.

BENEFITS

- PREVENTIVE DISEASE PROTECTION** - Works as a protective barrier on the plant surface, helping prevent fungal infection at the early stage.
- RAPID FUNGICIDAL ACTIVITY** - Moisture-triggered Cu^{2+} ion release provides quick toxic action against fungi, improving control efficiency.
- BROAD-SPECTRUM DISEASE SUPPRESSION** - Provides effective control against a wide range of fungal pathogens by targeting multiple cellular components, ensuring comprehensive disease management across crops.
- STOPS DISEASE SPREAD** - By blocking mycelial growth, it helps reduce further infection and secondary spread in the field.
- SPORE GERMINATION SUPPRESSION** - Inhibits spore germination, lowering disease pressure and promoting healthier, cleaner crop growth.



N

CONTENT:
Nano Copper

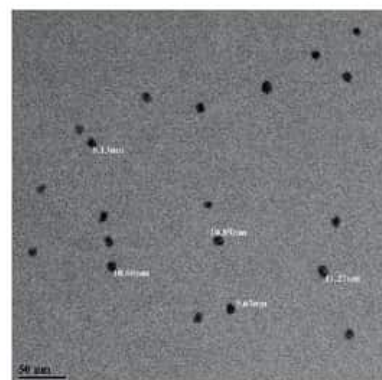
APPLICATION AND DOSAGE:

Foliar:
5 ml/Ltr of water
2-3 gm/Ltr of water

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg

LIQUID FORM:
100 ml, 250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC



Transmission Electron Microscopic
Analysis of Copper Nano Particles

V VEGAN
O ORGANIC
BN BIONANO
N NANO

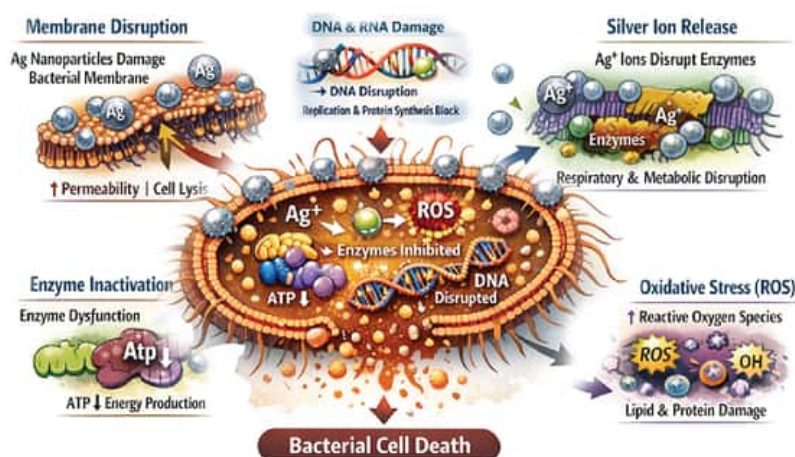
NANO SILVER



NANO TECHNOLOGY BASED BROAD SPECTRUM BACTERICIDE

MODE OF ACTION

1. **TARGETED MEMBRANE DISRUPTION** - Nano silver particles attach to negatively charged bacterial membranes, damaging phospholipids and proteins, causing permeability loss and cell collapse.
2. **CONTROLLED SILVER ION RELEASE** - Acts as a nano-reservoir releasing Ag^+ ions that bind with thiol groups of vital enzymes, disrupting respiration and metabolic activity.
3. **ENZYME INACTIVATION & METABOLIC BLOCKAGE** - Silver ions deactivate essential bacterial enzymes by complex formation, halting energy production and critical cellular processes.
4. **OXIDATIVE STRESS INDUCTION (ROS GENERATION)** - Enhances intracellular reactive oxygen species formation, triggering lipid peroxidation, protein oxidation, and irreversible cellular damage.
5. **GENETIC MATERIAL INTERFERENCE** - Binds with DNA and RNA structures, blocking replication, transcription, and protein synthesis, ultimately leading to bacterial cell death.



BENEFITS

1. **BROAD-SPECTRUM BACTERIAL DISEASE SUPPRESSION** - Provides effective control against diverse bacterial species by disrupting multiple cellular functions, reducing disease incidence across seeds, foliage, and root zones.
2. **IMPROVED CROP HEALTH & VIGOR** - Protects plants from microbial stress, promoting healthier growth, better establishment, and stronger overall plant development.
3. **ENHANCED GERMINATION & EARLY GROWTH** - Supports improved seed germination and early-stage vigor by minimizing pathogen pressure during critical growth phases.
4. **REDUCED CHEMICAL LOAD** - Minimizes dependence on conventional antibiotics and harsh bactericides, lowering environmental impact and residue risks.
5. **LONG-LASTING ANTIMICROBIAL PROTECTION** - Nano-sized particles provide sustained activity through controlled silver ion release for extended crop protection.



N

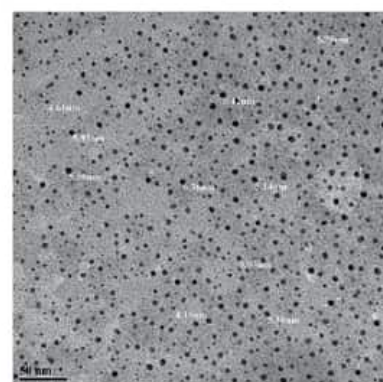
CONTENT:
Nano Silver

APPLICATION AND DOSAGE:

Foliar:
5 ml/Ltr of water

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC



Transmission Electron Microscopic
Analysis of Silver Nano Particles

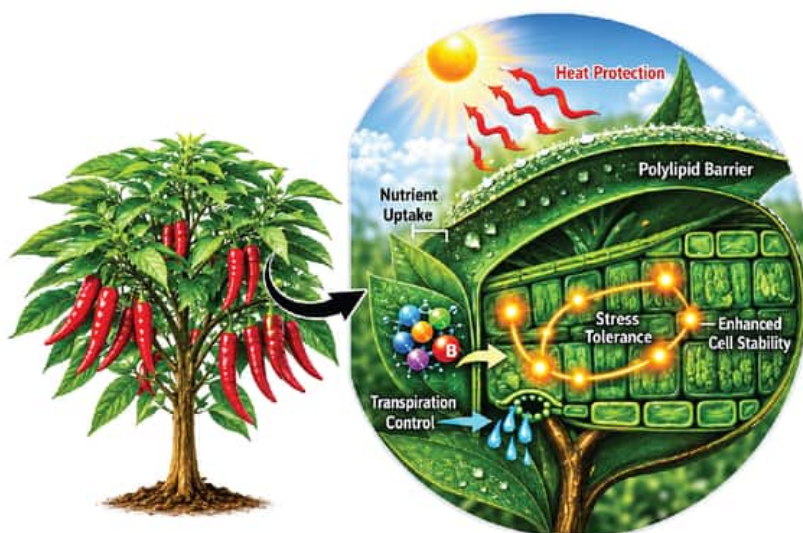
V VEGAN
O ORGANIC
BN BIONANO
N NANO

AQUALOCK

MET BASED ANTI-TRANSPIRANT

MODE OF ACTION

1. **POLYLIPID LAYER FORMATION** - Forms a thin, breathable polylipid film on leaf surfaces that regulates transpiration while maintaining normal gas exchange.
2. **HEAT SHOCK PROTECTION** - Acts as a protective barrier against excessive heat, reducing cellular damage and maintaining metabolic stability under heat stress.
3. **NUTRIENT UPTAKE ENHANCEMENT** - Microbial extract-based formulation activates plant-signaling pathways, improving nutrient absorption and translocation efficiency.
4. **STRESS TOLERANCE** - Enhances plant resilience to abiotic stresses such as heat and drought, supporting faster recovery.
5. **TRANSPIRATION REGULATION** - Optimizes water loss by controlling stomatal activity, ensuring better water-use efficiency under stress conditions.



BENEFITS

1. **REDUCED TRANSPIRATION** - Significantly lowers water loss from plants, helping conserve moisture during high-temperature and dry conditions.
2. **HEAT STRESS MITIGATION** - Protects plants from heat shock damage, maintaining cell integrity and physiological balance.
3. **IMPROVED NUTRIENT UPTAKE** - Enhances nutrient absorption and utilization, leading to healthier and more efficient plant growth.
4. **ENHANCED PLANT VIGOR & YIELD** - Promotes stronger plant vigor and improved productivity even under stressful environmental conditions.
5. **IMPROVE IMMUNITY** - Strengthens plant defence mechanisms, improving tolerance to abiotic stress and overall plant health.



CONTENT:
Polylipids + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
3 ml/Ltr of water

PACKAGING OPTIONS AVAILABLE

LIQUID FORM:
250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC



TREAT



BROAD SPECTRUM ANTIOXIDANT AGAINST FUNGUS

MODE OF ACTION

1. **SYSTEMIC ACQUIRED RESISTANCE ACTIVATION** - Activates salicylic acid pathway, strengthening plant immune signalling and enhancing long-term resistance against fungal pathogens.
2. **HYPERSENSITIVE RESPONSE STIMULATION** - Induces localized cell defence reactions and pathogenesis-related proteins to restrict fungal entry and spread.
3. **ANTIOXIDANT DEFENCE ENHANCEMENT** - Boosts antioxidant enzyme activity, reducing oxidative damage caused by fungal infection and environmental stress.
4. **GROWTH INHIBITION** - Creates unfavourable conditions for fungal development, preventing spore germination and mycelial proliferation.
5. **NUTRIENT-DRIVEN RECOVERY MECHANISM** - Supplies balanced nutrients supporting metabolic restoration, accelerating plant recovery from fungal stress.

BENEFITS

1. **BROAD-SPECTRUM FUNGAL PROTECTION** - Provides effective control against multiple fungal diseases across crops, reducing overall infection pressure.
2. **PREVENTIVE AND CURATIVE ACTION** - Protects healthy tissues while helping infected plants recover through strengthened internal defence systems.
3. **STRESS RESISTANCE IMPROVEMENT** - Enhances tolerance to biotic and abiotic stresses, maintaining plant vigor under challenging conditions.
4. **RESIDUE-FREE AND PLANT FRIENDLY** - Leaves no harmful residues, ensuring crop safety and protecting beneficial organisms and pollinators.
5. **IMPROVED CROP HEALTH AND PRODUCTIVITY** - Promotes stronger growth, better foliage retention, and improved yield potential under disease stress.

Optimum Combination for Better Results: NO BACT

No Bact



Botanical Bactericide

- Broad-spectrum control of plant pathogenic bacteria
- Disrupts bacterial cell function and biofilm formation
- Eco-friendly, residue-free protection with improved crop health



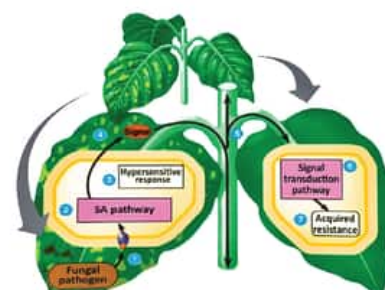
CONTENT:
Speciality Nutrients + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
100 gm/Acre or 250 gm/Ha

PACKAGING OPTIONS AVAILABLE

POWDER FORM:
50 gm, 100 gm, 250 gm, 500 gm,
1 Kg, 5 Kg, 10 Kg, 20 Kg



Systemic Acquired Resistance

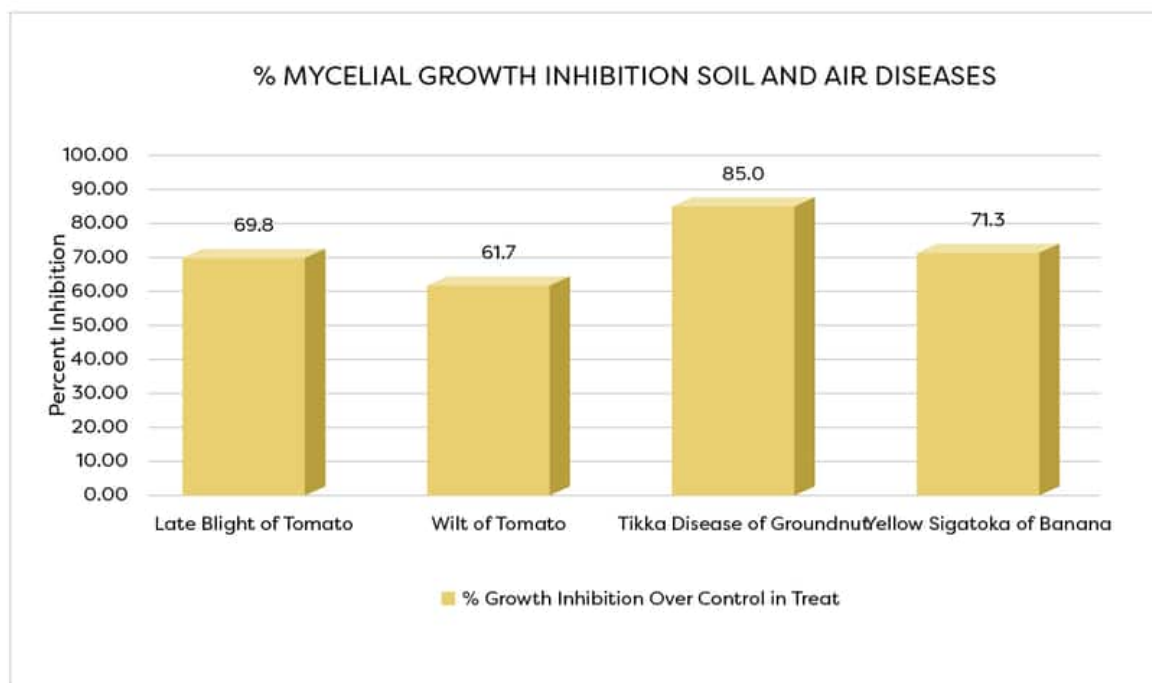
- V VEGAN
- O ORGANIC
- BN BIONANO
- N NANO

TRIAL DATA

TRIAL - 1: EVALUATION OF TREAT AGAINST DIFFERENT FUNGAL DISEASES IN IN-VITRO CONDITIONS.

LOCATION: Geolife Research Farm, Pune.

DOSAGE: T1: Control, T2: Treat foliar application 2 g/L of water



CONCLUSION

Treat demonstrated significant antifungal activity across multiple crops, recording growth inhibition upto 85% over control, confirming Treat's strong potential as a broad-spectrum, eco-friendly solution for managing major fungal diseases.

TRIAL PICTURES

1. Comparative difference of application of Treat on Tikka disease of Groundnut



T1: Control T2: Treat @ 2 G/L of Water T3: Market Standard Chemical

2. Comparative difference of application of Treat on Charcoal rot disease of Soybean



T1: Control T2: Treat @ 2 G/L of Water T3: Market Standard Chemical

PRODUCT PERFORMANCE ENHANCERS

Product performance enhancers improve the effectiveness of agricultural inputs by boosting solute permeability, enhancing wetting and spreading, and adjusting pH for optimal nutrient availability. They help break pesticide resistance, alleviate plant stress, and ensure better penetration, rain resistance, and compatibility with various treatments and soil conditions.

AGRO SOLUTIONS

- *Spider*
- *Active*
- *Buffer Up*
- *Buffer Down*



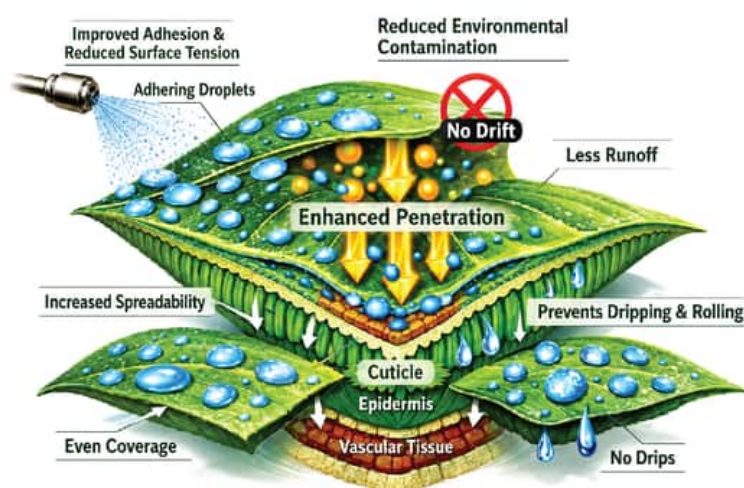
SPIDER



SILICON-BASED NON-IONIC SPREADER AND STICKER

MODE OF ACTION

1. **REDUCED SURFACE TENSION & IMPROVED SPREADABILITY** - Lowers surface tension, allowing uniform droplet spreading and complete leaf surface coverage.
2. **ENHANCED ADHESION & RETENTION** - Improves droplet sticking on leaves, reducing runoff, dripping, and loss of spray solution.
3. **ENHANCED PENETRATION** - Facilitates deeper cuticular penetration, increasing uptake and efficacy of active ingredients.
4. **PREVENTS DRIFT & WASH-OFF** - Minimizes spray drift and environmental contamination, improving application safety and efficiency.
5. **IMPROVED ABSORPTION & SYSTEMIC ACTION** - Supports efficient absorption and translocation of systemic products for better performance.



CONTENT:

Non Ionic Silicon

APPLICATION AND DOSAGE:

Foliar:

1 ml/3 Ltr of water

PACKING OPTION AVAILABLE :

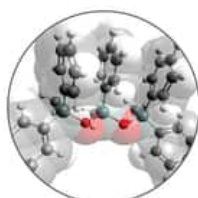
LIQUID FORM:

100 ml, 250 ml, 500 ml,
1 Ltr, 5 Ltr, 20 Ltr, 200 Ltr, 1000 Ltr IBC



BENEFITS

1. **BIO-CHEMICALLY NONIONIC, INERT, AND NON-TOXIC** - Safe, user-friendly formulation with minimal environmental impact and no phytotoxicity.
2. **LOW DOSAGE EFFICIENCY** - Highly effective at low doses, reducing overall spray volume and chemical input costs.
3. **ENHANCED STICKING PROPERTY** - Improves binding of pesticides and foliar nutrients to leaf surfaces for longer residual action.
4. **COMPATIBILITY** - Fully compatible with fertilizers, herbicides, insecticides, fungicides, and growth regulators.
5. **Improves Plant Immunity** - Forms a protective silicon layer that strengthens plant tissues and enhances stress tolerance.



V VEGAN

O ORGANIC

BN BIONANO

N NANO

ACTIVE

MET BASED PERFORMANCE ENHANCER

MODE OF ACTION

1. **MEMBRANE TRANSFER ENHANCEMENT** - Improves membrane permeability, enabling faster nutrient absorption and efficient internal nutrient movement.
2. **MAXIMIZES PRODUCT PENETRATION** - Enhances cuticle penetration and cellular uptake for better bioavailability and rapid physiological action.
3. **Facilitates Active Transport** - Supports active molecule transport against concentration gradients, improving metabolic efficiency.
4. **Enhances Antioxidant Properties** - Strengthens antioxidant enzyme systems, protecting plant cells from oxidative and environmental stress.
5. **Boosts Plant Immunity** - Activates internal defense mechanisms, increasing resistance against pathogens and biotic stress.



BENEFITS

1. **PRODUCT PERFORMANCE ENHANCER** - Boosts effectiveness of agricultural inputs, improving overall crop response and performance.
2. **ACTIVE PRODUCT MECHANISM** - Enhances action of active ingredients by stimulating efficient uptake and utilization.
3. **STRESS RECOVERY** - Supports faster recovery from environmental and biological stresses, maintaining plant vigor.
4. **IMMUNITY DEVELOPMENT** - Strengthens natural plant immunity, enhancing tolerance to fungal diseases and stress.
5. **MIXING AGENT FOR IMPROVED PERFORMANCE** - Acts as a compatible intermediary, improving performance when combined with other agricultural inputs.



CONTENT:
Amino Acid + Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
30 gm/Acre or 75 gm/Ha

PACKING OPTIONS AVAILABLE:

POWDER FORM:
30 gm, 50 gm, 100 gm,
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



ACTIVE INCREASES
PERFORMANCE OF



Insecticides



Fungicides



Biofertilizers



Herbicides



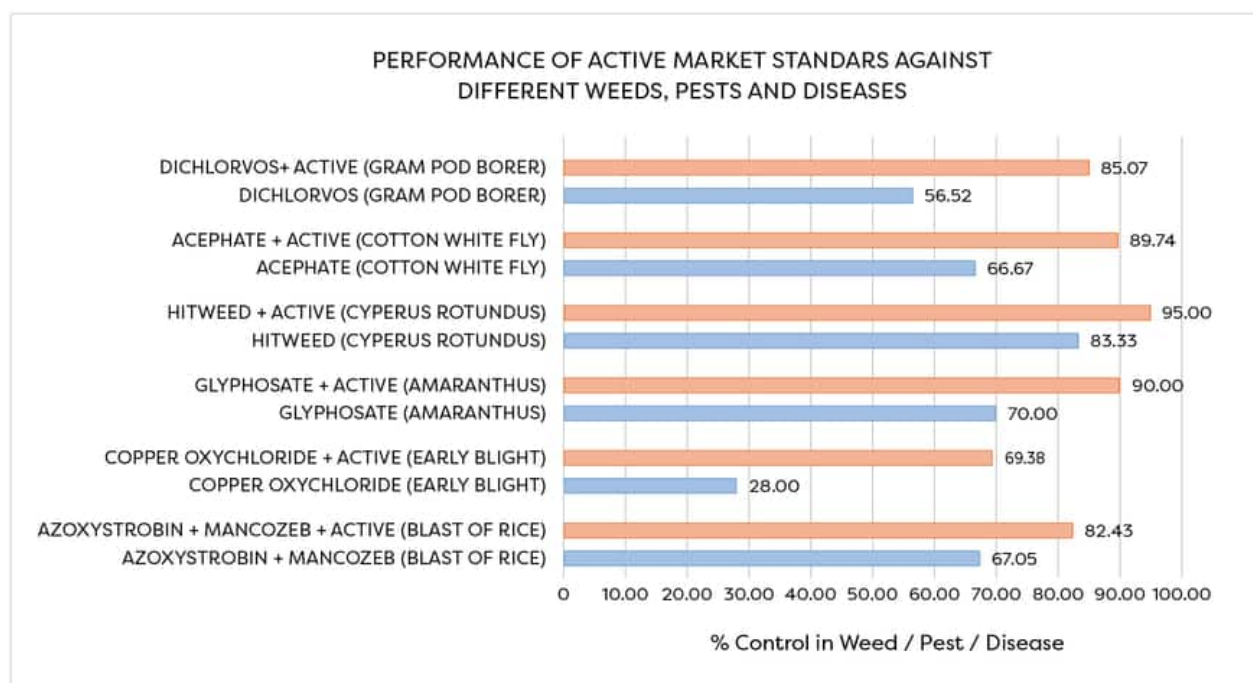
Biopesticides

TRIAL DATA

TRIAL - 1 : EFFICACY OF ACTIVE WITH MARKET STANDARD AGAINST VARIOUS WEEDS, PESTS AND DISEASES.

Location: Geolife Research Farm, Pune

Treatments: T0 : Market standard, T1 : Market standard + Active



CONCLUSION

Across weeds, pests, and diseases, adding Active to industry-standard chemicals significantly boosts their efficacy across all categories, increasing control by as much as 41.38 percentage points and results going upto near-perfect 95%.

TRIAL PICTURES

1. Comparative difference of application of Acephate and Acephate with Active on Cotton white fly.



T0: Acephate



T1: Acephate + Active

BUFFER UP

pH ENHANCER

MODE OF ACTION

1. **HYDROGEN ION NEUTRALIZATION** - Active components react with free hydrogen ions (H^+) in acidic soil or water, lowering acidity and stabilizing pH.
2. **OPTIMIZE PH OF SPRAY SOLUTION** - Increases the pH of acidic spray solution towards neutral which enhance the efficiency and stability of fertilizers, herbicides, and pesticides.
3. **IMPROVES NUTRIENT AVAILABILITY** - Raises soil pH from acidic to neutral, making essential nutrients more available for plant uptake and growth.
4. **PREVENTS NUTRIENT LOCKOUT** - Mitigates the effect of extreme soil acidity, preventing nutrients from becoming chemically bound and unavailable.
5. **pH STABILIZATION** - Maintains a balanced pH environment in soil and spray solutions, supporting consistent nutrient performance.

BENEFITS

1. **IMPROVES AGROCHEMICAL PERFORMANCE** - Ensures spray solutions are in a favorable pH range, allowing agrochemicals to perform at their intended efficacy level.
2. **REDUCE METAL TOXICITY AND ACIDIC SOIL STRESS** - Helps plants overcome stress caused by excessive soil acidity, metal toxicity and associated nutrient imbalances.
3. **ENHANCES NUTRIENT AVAILABILITY** - Improves nutrient uptake by preventing fixation, ensuring plants receive balanced nutrition.
4. **IMPROVES FERTILIZER USE EFFICIENCY** - Maximizes the effectiveness of applied fertilizers by creating favourable soil conditions, leading to better nutrient utilization and reduced input losses
5. **Residue-Free & Eco-Friendly** - It leaves no harmful residues, making it safe for crops, soil, and the environment.



APPLICATION AND DOSAGE:

pH	RECOMMENDED DOSE (Per Litre of Water)
5-6	0.5 to 1 ml
3.5 - 5	1 ml to 2 ml
2 - 3.5	2 ml to 2.5 ml

PACKING OPTION AVAILABLE:

LIQUID FORM:
250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC



BUFFER DOWN

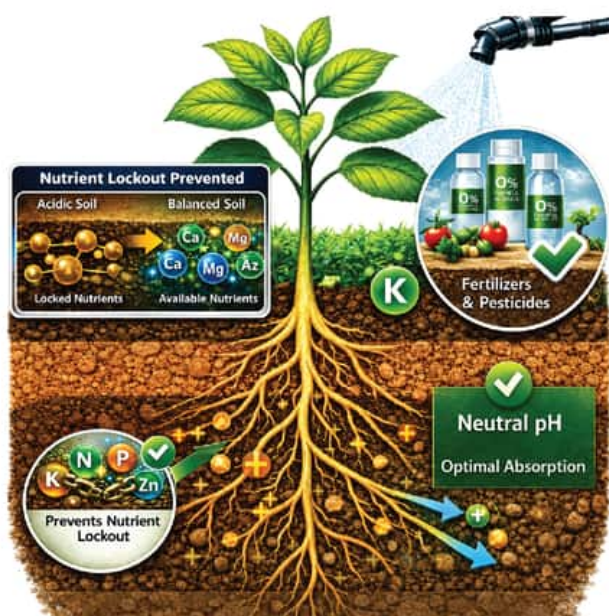
pH REDUCER

MODE OF ACTION

1. **HYDROXYL ION (OH-) NEUTRALIZATION** - It neutralizes excess hydroxyl ions and carbonate/bicarbonate ions present in alkaline water or soil, resulting in a controlled decrease in pH.
2. **REDUCTION OF ALKALINE HYDROLYSIS** - By lowering spray solution pH, it prevents alkaline degradation of pH-sensitive pesticides, thereby preserving active ingredient stability.
3. **IMPROVED NUTRIENT SOLUBILITY** - Lowering high pH conditions enhances the solubility and availability of micronutrients such as iron (Fe), zinc (Zn), manganese (Mn), and copper (Cu).
4. **IMPROVES NUTRIENT AVAILABILITY** - Ensures essential nutrients remain soluble and accessible, preventing nutrient lockout in alkaline conditions.

BENEFITS

1. **IMPROVES AGROCHEMICAL EFFECTIVENESS** - Creates favorable spray solution conditions that allow pesticides and foliar nutrients to perform at their optimum potential.
2. **REDUCES ACTIVE INGREDIENT LOSS** - Helps preserve the strength of pH-sensitive agrochemicals, reduces problems like precipitation, clogging, and uneven spray output in tank-mixes.
3. **MAINTAINS OPTIMAL SOIL PH** - Helps keep soil pH within the ideal range, supporting better root growth and nutrient absorption.
4. **IMPROVES NUTRIENT AVAILABILITY** - Supports gradual improvement of high-pH soils, improves nutrients uptake by creating a more favourable root-zone environment.
5. **RESIDUE-FREE & ECO-FRIENDLY** - It leaves no harmful residues, making it safe for crops, soil, and the environment.



APPLICATION AND DOSAGE:

pH	RECOMMENDED DOSE (Per Litre of Water)
8-9	0.5 to 1 ml
9 - 10.5	1 ml to 2 ml
10.5 - 11	2 ml to 2.5 ml

PACKING OPTION AVAILABLE:

LIQUID FORM:
250 ml, 500 ml, 1 Ltr, 5 Ltr,
20 Ltr, 200 Ltr, 1000 Ltr IBC



GEOLIFE BALANCED CROP NUTRITION PACKAGE (BCNP)

BALANCED CROP NUTRITION PACKAGE (BCNP): NOURISHING EVERY STAGE OF PLANT GROWTH

- Plants, like all living beings, require a comprehensive and balanced nutrition plan to grow, develop, and thrive. The Balanced Crop Nutrition Package (BCNP) is a stage-wise, scientifically formulated approach designed to deliver precise nutrition at each critical phase of plant growth, ensuring stronger, healthier, and higher-yielding crops.

Why is Balanced Crop Nutrition Essential?

- Traditional farming often focuses on macronutrients like nitrogen, phosphorus, and potassium (NPK), while overlooking vital micronutrients, vitamins, enzymes, antioxidants, and plant growth regulators. This imbalance weakens plant immunity, root strength, flowering efficiency, and fruit development, making crops vulnerable to pests, diseases, and environmental stresses.

BCNP bridges this nutritional gap by delivering bio-chelated, residue-free nutrition tailored to each growth stage, ensuring plants receive exactly what they

HOW BCNP ADDRESSES NUTRITIONAL NEEDS ACROSS GROWTH STAGES

Initial Growth Stage: Laying the Foundation

- Enhances root establishment and soil health
- Improves nutrient absorption and microbial activity
- Strengthens plants against abiotic stress (drought, temperature fluctuations)

Vegetative Stage: Boosting Vigor and Canopy

- Accelerates nutrient uptake, enzymatic activity, and metabolism
- Promotes robust root, shoot, and tiller growth
- Builds natural resistance against pests and diseases

Flowering Stage: Maximizing Bloom and Fruit Set

- Improves male-to-female flower ratio
- Prevents flower drop and enhances pollination
- Ensures stronger fruit setting for higher yields

Fruiting & Maturity Stage – Ensuring Quality and Marketability

- Enhances fruit size, shape, and uniformity
- Develops better taste, color, and shelf life
- Prevents premature fruit drop and cracking



**THE BCNP ADVANTAGE:
A HOLISTIC & SUSTAINABLE
APPROACH**

Stage-Specific Nutrition:
Provides the right nutrients at the right time.

Residue-Free & Environmentally Safe:
Supports sustainable farming without harmful chemicals.

Scientifically Proven:
Developed through years of research and multi-location trials.

Boosts Crop Immunity & Resilience:
Strengthens plants from within against biotic and abiotic stresses.

Higher Yields, Better Quality, Increased Profitability: *Empowers farmers with sustainable and cost-effective solutions*

By adopting Geolife's Balanced Crop Nutrition Package, farmers move from reactive farming to proactive, precision nutrition, ensuring healthier crops, superior yields, and a more sustainable future for agriculture.

NUTRITION SENSITIVE FARMING WITH



Plants require different types of nutrition at different stages of growth. Nutrition includes not only minerals but also vitamins, enzymes, and antioxidants. When the right nutrition is provided at the right time in the right form (biochelated), the plant produces very high yields. Plants are able to develop a potent immune system that helps resist pests and diseases.

This leads to very little or no need for pesticides. Proper nutrition management ensures high-quality output with good size, taste, colour, and shelf life, while maintaining high nutrient content in the produce. Keeping this in mind, Geolife has developed a stage-wise nutrition management package, backed by 15 years of intense and meticulous research, demonstrating a 30-100% increase in yields.

CROP STAGE-WISE BIOCHELATED BALANCED CROP NUTRITION

MINERALS

ENZYMES

VITAMINS

ANTIOXIDANTS





BALANCED CROP NUTRITION PACKAG FOR ALL CROPS

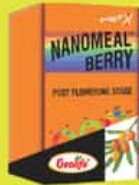
MINERALS



NANOMEAL BERRY™

N	P	K	Ca	Fe	B	Mn	Mo
10	-	36	2	1	0.4	1	0.02

Complete Minerals for the Fruit Stage



NANOMEAL FLORA™

N	P	K	Mg	Zn	B	Mn
-	40	25	2	1	0.4	1

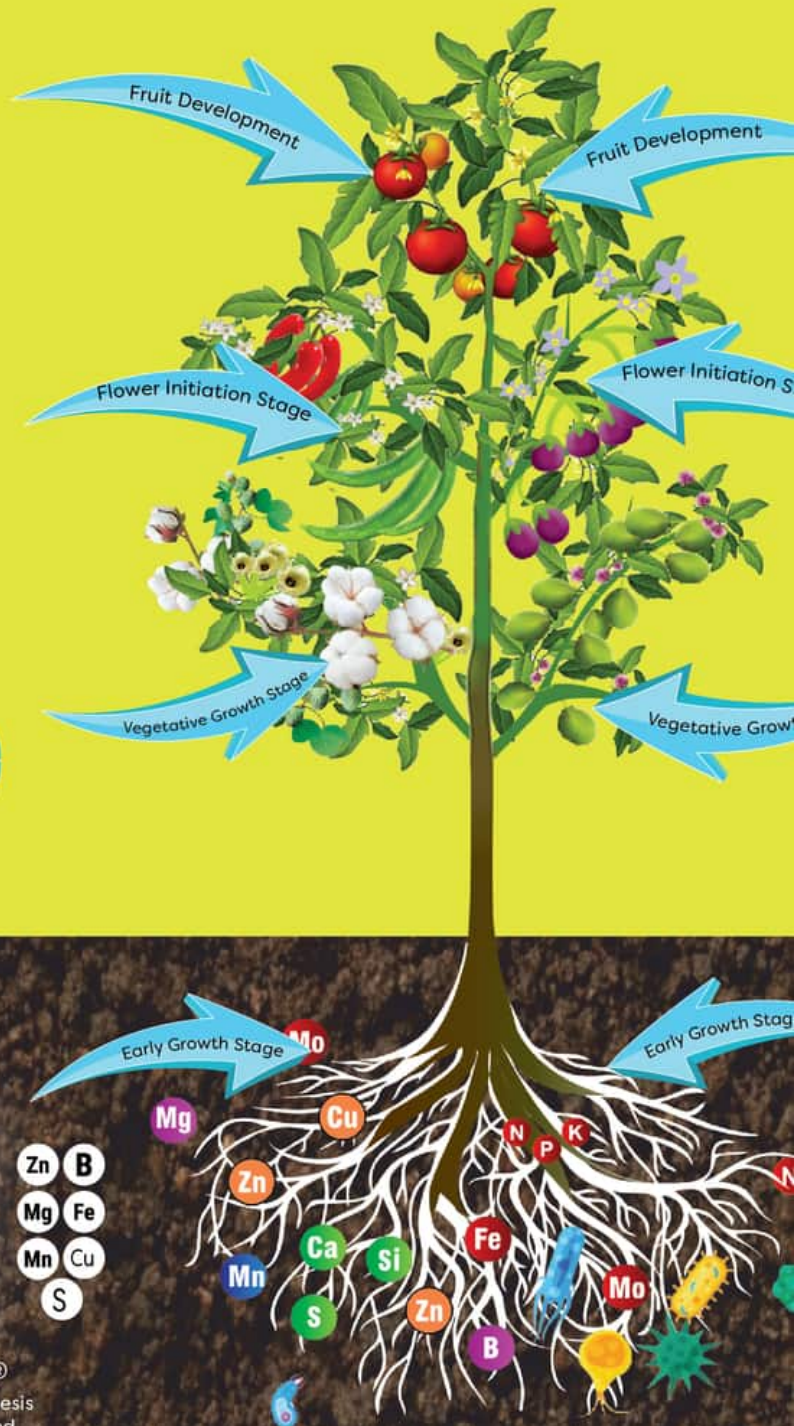
Complete Minerals for the Flower Stage



NANOMEAL START™

N	P	K	Ca	Mg	Fe	Zn	B	Mn	Mo	Cu
14	14	14	2	2	1	1	0.2	1	0.02	1

Complete Minerals for the Growth Stage



N
P
K

Needed in large quantities for fulfilling crop requirement



Ca
Mg
Si

SILCAMAG®
Strong root network,
Biotic, abiotic Stress and
lodging resistance



Zn B
Mg Fe
Mn Cu
S

FOUNDATION®
Promotes Photosynthesis
Water Retention and
Root Development

BALANCED CROP NUTRITION PACKAGE

BIOSTIMULANTS



VIGORE F.S.TM

Phyto-Stimulant for Optimum Fruit Quality

Fruit Size, Colour, Taste, Post Harvest Quality



NANO VIGORE[®]

L - Aminos

Flower Booster



VIGORE[®]

Neurospora crassa extract, Antioxidants, Vitamins, Minerals, Enzymes

Healthier & Faster Development of Shoots / Branches / Tillers



TABSIL[®]

High% Ortho Silicic Acid Effervescent Tablets

Strengthening Flower Performance



TABSIL[®]

High% Ortho Silicic Acid Effervescent Tablets

Enhancing strength and structural integrity



TABSIL[®]

High% Ortho Silicic Acid Effervescent Tablets

Increases Resistance against Biotic and Abiotic Stress



NATURAL CABTM

MET Based Bio Available Ca & B

Anti-Cracking & Rotting of Fruits



BALANCE[®] NANO

Nutrient Mix for Flowering

Flower Drop Arrester



VIGORE RAJA[®]

Mycorrhiza with Neurospora crassa extracts, Antioxidants, Vitamins, Minerals & Enzymes



BACTOGANG[®] 24

24 Types of Beneficial Bacterias + Unique Microbial Extracts



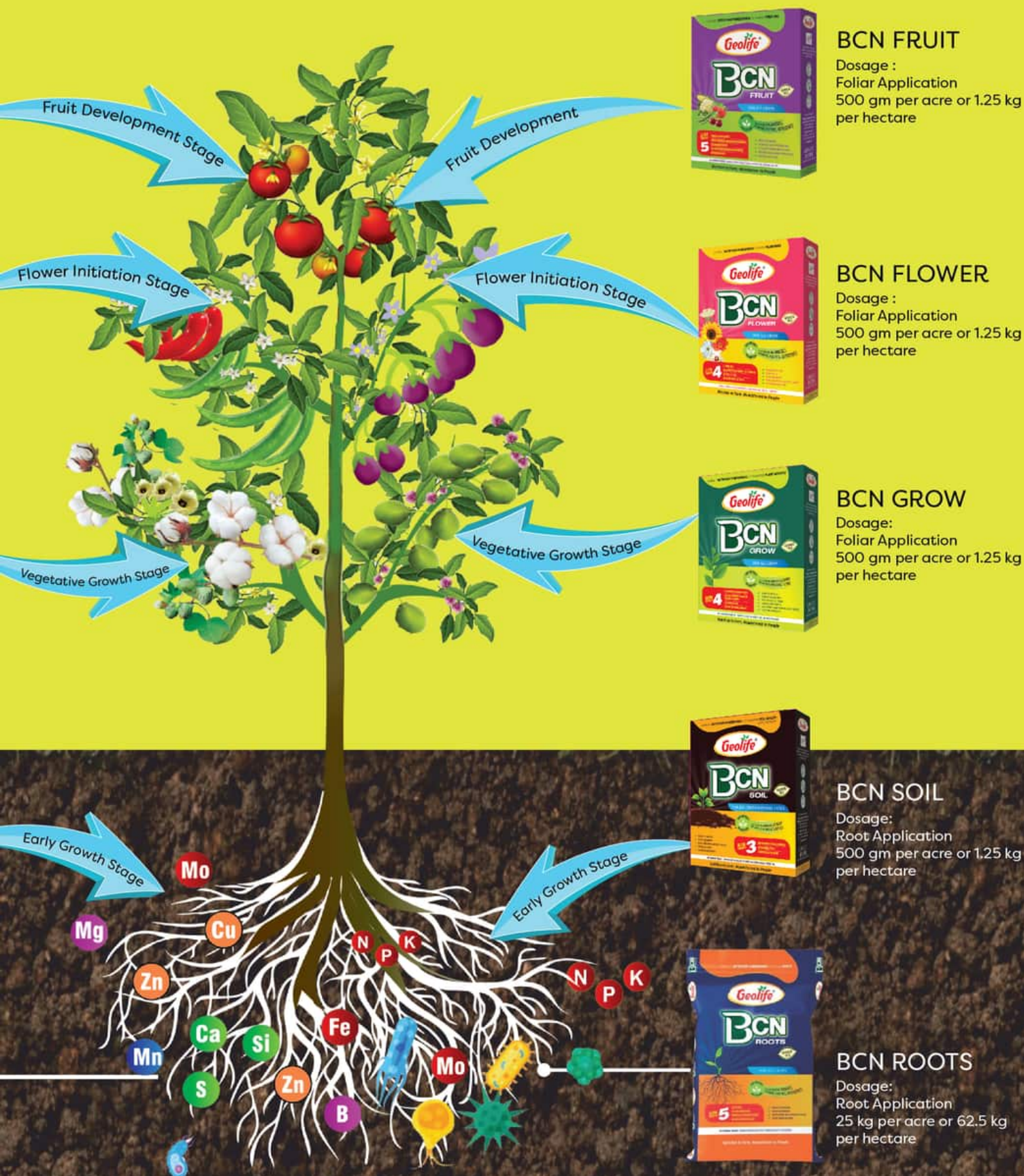
CARBON STONESTM

Soil organic carbon recharger

After 15 Years of Meticulous Reserach, using 5 R
Right Time, Right Form & Right Way, Geolife has D
that has been Proven to I



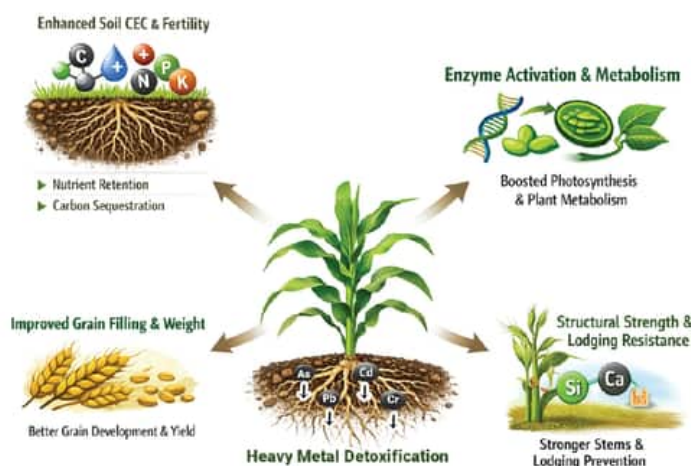
Concept which is Right Nutrition, Right Dosage,
Developed Stage wise Complete Nutrition Package
Increase Yield by 30-100%



BALANCED CROP NUTRITION FOR ROOTS

MODE OF ACTION

- 1. ENHANCED SOIL CEC & FERTILITY** - Improves soil cation exchange capacity, promotes carbon sequestration, enhances nutrient retention, and supports long-term soil fertility and productivity.
- 2. ENZYME ACTIVATION & METABOLISM** - Activates essential plant enzymes, enhances chlorophyll synthesis, improves photosynthesis efficiency, and strengthens overall metabolic and physiological processes.
- 3. HEAVY METAL DETOXIFICATION MECHANISM** - Immobilizes toxic heavy metals in soil, reduces plant uptake, restricts translocation, and improves crop safety and root health.
- 4. STRUCTURAL STRENGTH & LODGING RESISTANCE** - Reinforces cell wall lignification through silicon and calcium deposition, increasing stem strength and reducing lodging risks.
- 5. IMPROVED GRAIN FILLING & WEIGHT** - Enhances carbohydrate assimilation, supports efficient grain filling, and increases final grain weight and overall yield quality.



BENEFITS

- 1. LESS INSECT PEST DAMAGE** - Strengthens plant cell walls and activates natural defense mechanisms, reducing susceptibility to insect attacks, pest infestation, and disease incidence.
- 2. REDUCED CULTIVATION COST** - Minimizes biotic and abiotic stress, lowering dependence on pesticides, fungicides, and corrective fertilizers, thereby reducing overall production expenses.
- 3. IMPROVED WATER RETENTION** - Enhances soil moisture-holding capacity and balance, supporting crops during irregular rainfall, drought conditions, and extended dry spells.
- 4. ENHANCED SOIL STRUCTURE** - Improves soil aggregation, aeration, and drainage in heavy soils while correcting micronutrient deficiencies for better root development.
- 5. ORGANIC CARBON & SOIL HEALTH** - Provides a ready source of organic carbon, stimulating beneficial microbes and improving soil fertility, nutrient cycling, and long-term productivity.



CONTENT:
Specialty Nutrients + Bioavailable form
of Organic Carbon + Unique Microbial
Extracts

APPLICATION AND DOSAGE:

Soil:
25 Kg/Acre or 62.5 Kg/Ha

PACKING OPTION AVAILABLE:

POWDER FORM:
5 Kg, 25 Kg



V VEGAN

O ORGANIC

BN BIONANO

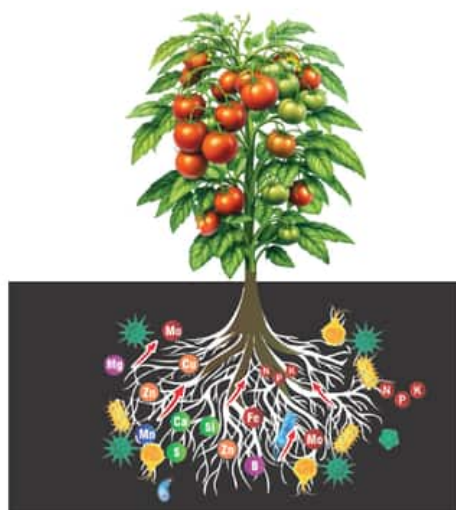
N NANO

BCN SOIL

BALANCED CROP NUTRITION FOR SOIL HEALTH

MODE OF ACTION

1. **BENEFICIAL MICROBIAL ACTIVATION** - Combines Bactogang 24 consortia and Vigore Raja extracts to stimulate rhizospheric microbes, enhancing soil biological activity and nutrient dynamics.
2. **MYCORRHIZAL INTERFACE DEVELOPMENT** - VAM fungi establish root colonization and extend hyphal networks, expanding nutrient and moisture exploration beyond root surfaces.
3. **NUTRIENT MINERALIZATION ENHANCEMENT** - Microbial enzymes convert organic and insoluble nutrients into plant-available forms, ensuring improved nutrient readiness and uptake efficiency.
4. **SOIL HEALTH & DISEASE SUPPRESSION** - Improves aggregation and carbon cycling while competitive beneficial microbes reduce soil-borne pathogen pressure and protect roots.
5. **ROOT PROLIFERATION & CANOPY DEVELOPMENT** - Promotes white feeder roots and increases secondary and tertiary root branching and canopy enhancement, strengthening root architecture and absorption efficiency.



BENEFITS

1. **IMPROVED SOIL BIOLOGICAL ACTIVITY** - Boosts beneficial microbial populations, creating a biologically active soil environment essential for efficient nutrient cycling and sustained soil vitality.
2. **BETTER NUTRIENT AVAILABILITY IN ROOT ZONE** - Enhances availability of phosphorus, micronutrients, and other bound nutrients, minimizing nutrient lock-up and improving root uptake efficiency.
3. **GROWTH POWERHOUSE & WHITE ROOT BOOST** - Stimulates vigorous white feeder root formation and rapid root proliferation, acting as a growth powerhouse that strengthens canopy development.
4. **ENHANCED SOIL STRUCTURE & WATER RETENTION** - Improves soil tilth, aggregation, aeration, and moisture-holding capacity, supporting roots effectively under both moisture stress and excess conditions.
5. **INCREASED SOIL ORGANIC CARBON & LONG-TERM FERTILITY** - Promotes organic matter buildup and stable carbon formation, enhancing soil resilience, long-term fertility, and sustainable crop productivity.



CONTENT:
24 Encapsulated Live Bacterial Strains
+ Neurospora crassa Extract +
Mycorrhiza

APPLICATION AND DOSAGE:

Soil:
500 gm/Acre or 1.25 Kg/Ha

PACKING OPTION AVAILABLE:

POWDER FORM:
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



V VEGAN

O ORGANIC

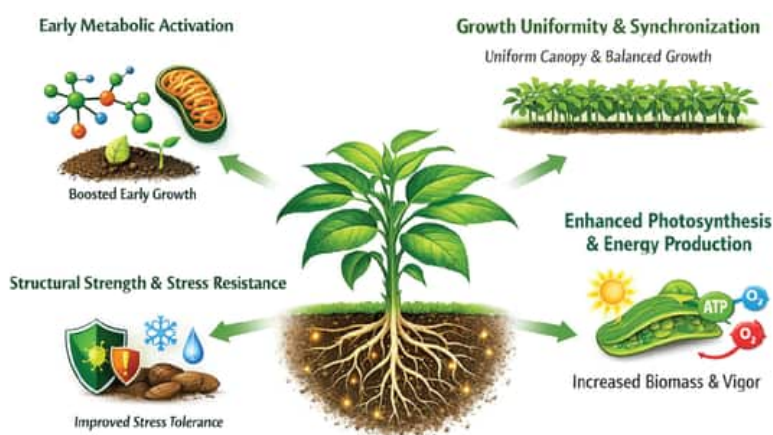
BN BIONANO

N NANO

BALANCED CROP NUTRITION FOR GROWTH

MODE OF ACTION

1. **EARLY METABOLIC ACTIVATION** - BCN Grow enhances early plant metabolism for quicker establishment and consistent vegetative development.
2. **GROWTH UNIFORMITY & SYNCHRONIZATION** - BCN Grow promotes balanced cell expansion and internodal development, resulting in uniform canopy formation, improved leaf architecture, and synchronized vegetative growth across the crop.
3. **ENHANCED METABOLIC & PHOTOSYNTHETIC ACTIVITY** - BCN Grow activates key enzymes to enhance photosynthesis and energy production, supporting faster biomass growth and plant vigor.
4. **STRUCTURAL STRENGTH & STRESS REGULATION** - BCN Grow strengthens cell walls and regulates transpiration, and increases biotic and abiotic stress resistance during vegetative growth.
5. **OPTIMIZED NUTRIENT UPTAKE & UTILIZATION** - BCN Grow improves nutrient transport and utilization, ensuring efficient nutrient use even under sub-optimal conditions.



BENEFITS

1. **FASTER AND UNIFORM CROP ESTABLISHMENT** - Promotes rapid seedling vigor with balanced root and shoot growth, ensuring uniform plant stand and early crop competitiveness.
2. **IMPROVED VEGETATIVE GROWTH & CANOPY FORMATION** - Reduces internodal distance and enhances tillering/branching, leaf size, and leaf number, resulting in a dense, healthy canopy with increased photosynthetic surface area.
3. **BIOAVAILABLE SILICON FOR STRUCTURAL STRENGTH & PROTECTION** - BCN Grow supplies readily absorbable silicon, strengthening cell walls and improving structural stability and biotic and abiotic stress tolerance.
4. **NUTRIENT POWERHOUSE** - It supplies essential macro and micro nutrients along with unique microbial extracts which fulfils the nutritional requirement for plant growth.
5. **VEGETATIVE STAGE OPTIMIZATION** - Builds a strong physiological and nutritional foundation during the growth stage, enabling smooth transition into flowering and uniform reproductive developments



CONTENT:
Specialty Nutrients + Neurospora
crassa + Orthosilicic Acid + Unique
Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
500 gm/Acre or 1.25 Kg/Ha

PACKING OPTION AVAILABLE:

POWDER FORM:
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



V VEGAN
O ORGANIC
BN BIONANO
N NANO

BCN FLOWER

BALANCED CROP NUTRITION FOR SOIL FLOWERS

MODE OF ACTION

1. **OPTIMIZED FLOWER NUTRITION & TRANSLOCATION** - Ensures quick uptake and efficient movement of nutrients to floral buds, supporting uniform flowering during peak demand.
2. **L-AMINO ACID-MEDIATED FLORIGEN ACTIVATION** - BCN Flower supplies L-amino acids that trigger flowering hormones, including florigen, promoting the shift from vegetative to reproductive growth and ensuring timely, uniform flowering.
3. **STRENGTHENING OF FLORAL STRUCTURES & RETENTION** - Reinforces floral tissues and moderates abscission signals, reducing flower drop and improving retention.
4. **ENHANCED ENERGY SUPPLY FOR FLOWERS** - Improves photosynthesis and sugar movement to flowers, supporting continuous development and longevity.
5. **STRESS PROTECTION DURING FLOWERING** - Stabilizes floral cells and activates antioxidants, protecting flowers from heat, moisture, and nutrient stress.



BENEFITS

1. **STRONG AND UNIFORM FLOWER DEVELOPMENT** - Provides balanced nutrition and metabolic support, resulting in healthy floral buds, uniform blooming, and improved overall flowering quality across crops.
2. **ENHANCED FEMALE FLOWER INDUCTION** - Improves male to female (1:8 flower ratio) and hermaphrodite flower formation by regulating nutritional and physiological balance, improving flowering efficiency and fruit-setting potential.
3. **FLOWER GROWTH NUTRIENT POWERHOUSE** - Supplies essential macro and micronutrients along with unique microbial extracts, fulfilling plant nutritional requirements during flowering and supporting vigorous reproductive growth.
4. **IMPROVED FLOWER VIGOR & VIABILITY** - Enhances energy flow and micronutrient availability, improving pollen health, stigma receptivity, and overall flower vitality for better fertilization success.
5. **STRESS TOLERANCE & FLOWER DROP ARREST** - Improves plant resilience under temperature variation, moisture stress, or nutrient imbalance, reducing flower drop and safeguarding yield potential.



CONTENT:
Specialty Nutrients + Biostimulant +
Orthosilicic Acid + Unique Microbial
Extracts

APPLICATION AND DOSAGE:

Foliar:
500 gm/Acre or 1.25 Kg/Ha

PACKING OPTION AVAILABLE:

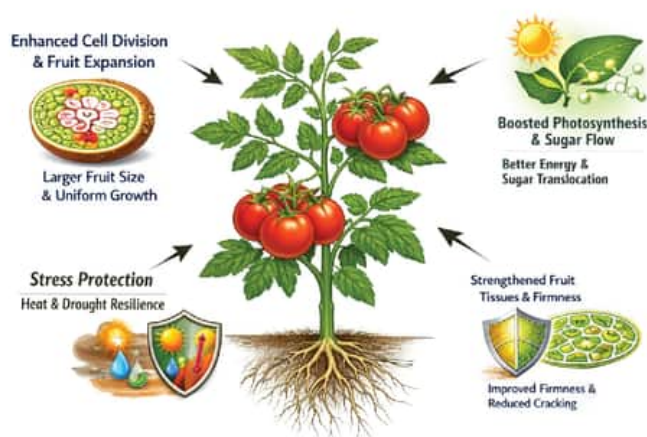
POWDER FORM:
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



BALANCED CROP NUTRITION FOR FRUITS OR GRAINS

MODE OF ACTION

- 1. IMPROVED FRUIT SET INTEGRITY** - Balanced nutrition and metabolic activation during the fruiting stage strengthen fruit attachment and internal stability, reducing early fruit drop and ensuring uniform, sustained fruit retention.
- 2. ENHANCED CELL DIVISION & FRUIT EXPANSION** - Active support to cell division and enlargement during fruit formation promotes uniform fruit growth; better fruit fill, and increased final fruit size and weight.
- 3. STRENGTHENED FRUIT TISSUES & FIRMNESS** - Cell wall reinforcement during fruit development improves tissue density and firmness, reducing cracking, bruising, and softening as fruits progress toward maturity.
- 4. IMPROVED PHOTOSYNTHESIS & SUGAR TRANSLOCATION** - Higher photosynthetic efficiency increases carbohydrate production in leaves, while enhanced internal transport ensures effective movement of sugars to fruits for proper filling, color development, and sweetness.
- 5. STRESS REGULATION & PHYSIOLOGICAL STABILITY** - Metabolic and antioxidant activity during the fruiting stage protects developing fruits from heat, moisture stress, and oxidative damage, while maintaining water balance and internal physiological harmony.



BENEFITS

- 1. HIGHER MARKETABLE YIELD & RETENTION** - Supports improved fruit set and retention through balanced nutrition, resulting in a higher proportion of well-developed, harvestable fruits per plant.
- 2. OPTIMAL SIZE, UNIFORMITY & FLAVOR** - Ensures consistent nutrient supply for proper cell expansion, promoting uniform fruit size, better shape, improved taste, and enhanced natural flavor.
- 3. REDUCED CRACKING & ROT INCIDENCE** - Strengthens fruit tissues and improves calcium utilization, helping minimize cracking, rotting, and common physiological disorders during growth and storage.
- 4. IMPROVED FIRMNESS & TEXTURE QUALITY** - Enhances structural integrity and moisture regulation, producing firmer fruits with desirable crispness and improved post-harvest handling performance.
- 5. ENHANCED STRESS TOLERANCE & NUTRITION** - Provides comprehensive nutritional support that improves fruit resilience against biotic and abiotic stress while maintaining consistent internal and external quality.



CONTENT:
Specialty Nutrients + Unique Botanical Consortia + Orthosilicic Acid + Unique Microbial Extracts

APPLICATION AND DOSAGE:

Foliar:
500 gm/Acre or 1.25 Kg/Ha

PACKING OPTION AVAILABLE:

POWDER FORM:
500 gm, 1 Kg, 5 Kg, 10 Kg, 20 Kg



HOME GARDEN & KITCHEN GARDEN NUTRITION

AGRO SOLUTIONS

- *Slow Release Complete Nutrition Fertilizer Tablet.*

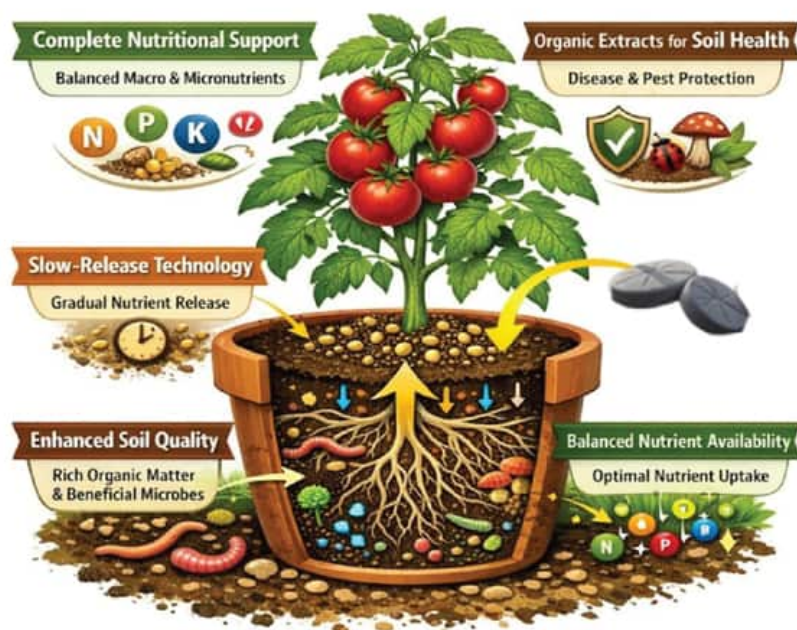
FERTIGARDEN



TABLET OF ALL ESSENTIAL NUTRIENTS FOR HOME GARDENING

MODE OF ACTION

1. **COMPLETE NUTRITIONAL SUPPORT** - Provides a balanced blend of macro and micronutrients to ensure healthy growth and effective flower induction.
2. **ORGANIC EXTRACTS FOR SOIL HEALTH** - Natural extracts help suppress soil-borne pathogens and reduce pest incidence while improving soil vitality.
3. **CONTROLLED RELEASE TECHNOLOGY** - Delivers nutrients gradually over time, ensuring steady nourishment and minimizing nutrient loss.



BENEFITS

1. **HOLISTIC NUTRIENT MANAGEMENT** - All-in-one nutritional tablet supports healthy plant growth for home gardeners by simplifying nutrient supply and ensuring consistent nourishment for indoor and outdoor plants.
2. **CONVENIENT & EASY APPLICATION** - Tablet form ensures precise dosing, easy handling, and mess-free application for indoor and outdoor plants.
3. **IMPROVED PLANT IMMUNITY** - Strengthens plant defence against biotic and abiotic stresses for resilient growth.
4. **BALANCED NUTRIENT AVAILABILITY** - Ensures efficient nutrient uptake by maintaining optimal nutrient balance in the growing medium.
5. **ENHANCED SOIL HEALTH** - Improves soil structure and microbial activity for long-term fertility.



CONTENT:
Essential Nutrients

APPLICATION AND DOSAGE:
For plants up to one foot in height:
One Tablet

For plants up to two feet in height:
Two tablets and so forth

APPLY IN EVERY 15-20 DAYS

PACKING OPTION AVAILABLE:

TABLET FORM:
50 gm, 100 gm, 250 gm, 500 gm, 1 Kg



V VEGAN
O ORGANIC
BN BIONANO
N NANO



Your Trusted Partner in Residue-Free & Regenerative Agri-Inputs

From Concept to Customized Formulations to Commercial Scale

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End-to-End Contract Development & Manufacturing

Regulatory-Ready Documentation

Scalable, Consistent, Performance-Driven Products

Accelerating the development and global commercialization
of next-generation biological agri-inputs.



OUR GLOBAL PRESENCE



-  Geolife Agritech India Pvt. Ltd.
-  Geolife Global Entities
-  Geolife Global Partners

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