

Revolutionising Farming for a Sustainable Tomorrow

BIOLOGICAL
AGRICULTURAL SOLUTIONS



TROPICAL  AGRO
PROTECTING FARMERS GLOBALLY





***CREATING A SUSTAINABLE
AGRICULTURAL ECOSYSTEM***

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ABOUT US

EMBARK ON A SUSTAINABLE FARMING JOURNEY WITH TROPICAL AGRO

Welcome to a world where innovation meets responsibility, and sustainable farming takes root. At Tropical Agro, we are committed to protecting crops, nurturing livelihoods, and promoting conscientious farming practices. Our avant-garde solutions work in harmony with the soil, aiding crop growth, enhancing soil health, and safeguarding crops, seeds, and harvests.



55+

55+ YEARS OF AGRICULTURAL EXCELLENCE

Tropical Agrosystem (India) Pvt. Ltd., a leader in the plant nutrition and crop care industry, is part of 'The Jhaver Group.' Established in 1969, our company combines a rich heritage with a determination to improve the lives of farming communities. From humble beginnings, we have grown into one of India's top agricultural brands, ranking 5th nationwide and with our group consolidated turnover ranking is 2nd among the homegrown Indian brands. With over 55 years of experience, we offer a wide array of over 300 agricultural solutions in both the Chemical and bio-organic sectors.



OUR COMMITMENT TO SUSTAINABILITY

Our goal is to become the most sustainable brand in the crop protection and plant nutrition industry. We are committed to creating a narrative of sustainability that resonates through the ages, protecting the environment for generations to come. Sustainability is integrated into our core business strategy, focusing on health, safety, and environmental stewardship. Through innovation, we build resilient food systems for millions of farmers to provide safe and reliable food, and improve global food security. Currently, we lead the industry with the widest range of biological products, creating a greener, healthier world.



WHY CHOOSE TROPICAL AGRO?



55+ Years of Experience



20,000+ Dealer & Retailer Connect



300+ Products



1100+ Employees



8+ crores Happy Farmers



7 State-of-the-Art manufacturing Facilities

WHAT SETS US APART?

- End-to-End Solutions: From seed treatment to post-harvest, we offer comprehensive solutions to farmers.
- Large Organic Product Range: A complete line of organic products for sustainable farming.
- Technical Expertise: Real-time advice and professional services.
- Quality Assurance: Stringent quality and safety protocols.
- Innovation: Continuous development of superior products.
- Distribution Network: Wide-reaching distribution channels.



OUR STATE-OF-THE-ART INFRASTRUCTURE

Strategically located factories across seven locations give us a geographical advantage. Our focus on innovation is evident in our dedicated R&D hubs for Biologicals in Coimbatore, Bangalore, and Sikandrabad.

OUR DIVERSE PRODUCT PORTFOLIO

At the heart of our efforts are the millions of farmers worldwide who trust our products. We pioneer a sustainable environment in agriculture with unique biological formulations, constantly adding new products for the farming community's benefit. Our portfolio includes biological pesticides, organic fertilizers, and more.



PRODUCT STEWARDSHIP AND QUALITY ASSURANCE

Safety is paramount at Tropical Agro. We have a strong product stewardship culture integrated into our business strategy to minimize negative impacts and maximize value responsibly. Our products undergo stringent quality checks, sourced ethically, and manufactured under Good Manufacturing Practices. We comply with industry norms and hold certifications from IMO, DSIR, GMP, NABL ISO/IEC 17025:2017, BIS, FAO, and the Fertilizer Control Order 1985.



INDUSTRY COLLABORATIONS

We collaborate with industry leaders such as AgroFresh, Bayer, Syngenta, BASF, and Corteva to stay at the forefront of agricultural innovation.



AWARDS AND RECOGNITION



AIASA Award



BioAg India 2023 Awards



ICFA Award



IEDRA Award

Recognition from Honourable President & Prime Minister:

Invited by the Honourable President of India to grace the “At Home” reception at the Rashtrapathi Bhavan hosted to mark the Independence Day Celebration of 2019 on 15th August and the Republic Day Celebration of 2020 on 26th January.



Join us on this journey of innovation as we pave the way for sustainable farming practices, ensuring a brighter, greener future for generations to come. Together, let's cultivate a world where progress meets planet-friendly initiatives!



BIOLOGICAL PRODUCTS PORTFOLIO

01

CEEDRICH

Consortium of NPK bio-inoculants



PRODUCT DESCRIPTION

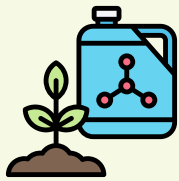
Ceedrich is a unique consortium of NPK bio-inoculants that is suitable for various crops to improve the availability of essential nutrients such as NPK (nitrogen, phosphorus and potassium) to the plants.

COMPOSITION

Organism	<i>Azotobacter chroococcum</i> , <i>Bacillus megaterium</i> and <i>Frateuria aurantia</i>	
Quality standards	Organism	CFU (per gm of product)
	<i>Azotobacter chroococcum</i>	Min. 1×10^{10}
	<i>Bacillus megaterium</i>	Min. 1×10^{10}
	<i>Frateuria aurantia</i>	Min. 1×10^{10}
Formulation	Water Soluble Powder	
Shelf life	24 months	



MODE OF ACTION



- *Azotobacter chroococcum*: It is a nitrogen fixing bacteria that fixes the molecular nitrogen from the atmosphere, releasing it in the form of ammonium ions into the soil for plant uptake.
- *Bacillus megaterium*: It thrives in the rhizosphere and secretes organic acids, which dissolves the fixed or unavailable phosphate into soluble form and thus rendering it available to plants.
- *Frateuria aurantia*: It produces organic acids and enzymes that helps to solubilize the fixed potassium into an exchangeable form and enhancing its assimilation by plants.

FEATURES AND BENEFITS



- Reduces the chemical fertilizer NPK dependency by 20 – 25%.
- Enhances seed germination and fosters robust plant growth.
- Consortium of microbes present in Ceedrich also secretes certain plant growth substances and fungi static substances, thus promoting overall growth and development of the plants.
- Plants become stress resilient ensuring their adaptability in challenging environment.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Seed treatment	10 gm of Ceedrich for seeds required for 1 acre	<ul style="list-style-type: none"> ● For seed treatment, mix the biosticker (provided along with the product) in required quantity of water. ● Add 10 gm of Ceedrich into the above solution and mix thoroughly. Slowly pour this solution and mix it with seeds required for one acre. ● The treated seeds are shade dried for 15 - 30 minutes and are ready for sowing.

Note: For exports, the product is provided with an inbuilt biosticker which is mixed thoroughly with required quantity of water and shade dried for 15 - 30 minutes before sowing.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



02

NITRORICH

Rhizobium for legumes



PRODUCT DESCRIPTION

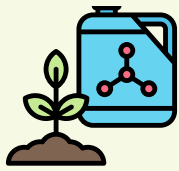
Nitrorich is a biofertilizer product containing rhizobium, a bacterium, that establishes a symbiotic relationship with leguminous crops. Nitrorich is developed with superior formulation technology that provides enhanced and consistent shelf life. The product is highly suitable for seed treatment of leguminous crops.

COMPOSITION

Organism	<i>Rhizobium</i>
Quality standards	Min. 1×10^{10} CFU per gm of the product
Formulation	Water Soluble Powder
Shelf life	24 months



MODE OF ACTION



The rhizobium penetrates the root hairs and colonizes the plant cells within the root nodules and converts atmospheric nitrogen to NH_4 form by which nitrogen is made available to the plants.

FEATURES AND BENEFITS



- It is highly suitable for seed treatment of leguminous crops and thus promotes crop growth.
- Reduces chemical nitrogen fertilizer dose by 25 – 30%.
- Has wide applicability and adaptability, thus suitable for various agro-climatic & soil conditions.
- Effective nodulation with enhanced and consistent shelf life.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Seed treatment	10 gm of Nitrorich for seeds required for 1 acre	<ul style="list-style-type: none">● For seed treatment, mix the biosticker (provided along with the product) with required quantity of water.● Add 10 gm of Nitrorich into the above solution and mix thoroughly. Slowly pour this solution and mix it with seeds required for one acre.● The treated seeds are shade dried for 15 - 30 minutes and are ready for sowing.

Note: For exports, the product is provided with an inbuilt biosticker which is mixed thoroughly with required quantity of water and shade dried for 15 - 30 minutes before sowing.

RECOMMENDED CROPS

Tropical Agro offers 4 different crop specific formulations.

- Rhizobium for soybean
- Rhizobium for groundnut
- Rhizobium for chickpea
- Rhizobium for other pulses



03

AZOTOBAT

Azotobacter chroococcum



PRODUCT DESCRIPTION

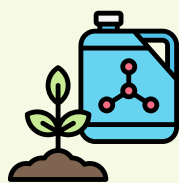
Azotobat is a biofertilizer product containing *Azotobacter chroococcum*, a non-symbiotic nitrogen fixing bacterium that can inhabit the plant roots and fix the atmospheric nitrogen.

COMPOSITION

Active ingredient	<i>Azotobacter chroococcum</i>
Quality standards	Min. 1×10^{10} CFU per gm of the product
Formulation	Water Soluble Powder
Shelf life	24 months



MODE OF ACTION



Azotobacter chroococcum is a nitrogen fixing bacteria that fixes the molecular nitrogen from the atmosphere, releasing it in the form of ammonium ions into the soil that are made available to the plants for their growth and development.

FEATURES AND BENEFITS



- Azotobacter fixes molecular nitrogen from the atmosphere reducing the use of chemical nitrogen fertilizer dose by 25 – 30%.
- Best suited for seed treatment of non-leguminous crops like wheat, millets, cotton, vegetables etc.
- Improves the soil fertility and stabilizes the nitrogen in soil. Effective nodulation with enhanced and consistent shelf life.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Seed treatment	10 gm of Azotobat for seeds required for 1 acre	<ul style="list-style-type: none">● For seed treatment, mix the biosticker (provided along with the product) with required quantity of water.● Add 10 gm of Azotobat to it and mix thoroughly. Slowly pour this solution and mix it with seeds required for one acre.● The treated seeds are shade dried for 30 minutes and are ready for sowing.

Note: For exports, the product is provided with an inbuilt biosticker which is mixed thoroughly with required quantity of water and shade dried for 15 - 30 minutes before sowing.

RECOMMENDED CROPS

Cereals, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops. Recommended on all crops, except legumes.



04

SPIROBAT

Azospirillum lipoferum



PRODUCT DESCRIPTION

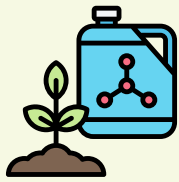
Spirobat is a biofertilizer product containing *Azospirillum lipoferum* a nitrogen fixing bacterium that has the ability to fix atmospheric nitrogen, decompose organic waste and produce plant growth substances.

COMPOSITION

Active ingredient	<i>Azospirillum lipoferum</i>
Quality standards	Min. 1×10^{10} CFU per gm of the product
Formulation	Water Soluble Powder
Shelf life	24 months



MODE OF ACTION



Azospirillum lipoferum: It is a nitrogen fixing bacteria that fixes the molecular nitrogen from the atmosphere, releasing it in the form of ammonium ions into the soil by the process of biological nitrogen fixation that happens through the assimilation of ammonium and the activity of nitrogenase.

FEATURES AND BENEFITS



- Increases the crop yield by 20-30 % and is best suited for seed treatment.
- Reduces the reliance on chemical fertilizer (Nitrogen) by 25%.
- Improves the soil fertility and stabilizes the nitrogen levels in soil.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Seed treatment	10 gm of Spirobat for seeds required for 1 acre	<ul style="list-style-type: none">● For seed treatment, mix the biosticker (provided along with the product) with required quantity of water.● Add 10 gm of Spirobat to it and mix thoroughly. Slowly pour this solution and mix it with seeds required for one acre.● The treated seeds are shade dried for 30 minutes and are ready for sowing.

Note: For exports, the product is provided with an inbuilt biosticker which is mixed thoroughly with required quantity of water and shade dried for 15 - 30 minutes before sowing.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



05

PHOSPHOBAT

Bacillus megaterium



PRODUCT DESCRIPTION

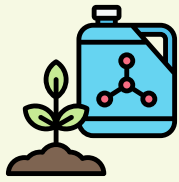
Phosphobat is a biofertilizer product containing highly efficient strain of phosphorus solubilizing bacteria *Bacillus megaterium*, a bacterium that grows and secretes organic acids and makes the phosphorus available to the plants.

COMPOSITION

Active ingredient	<i>Bacillus megaterium</i>
Quality standards	Min. 1×10^{10} CFU per gm of the product
Formulation	Water Soluble Powder
Shelf life	24 months



MODE OF ACTION



Bacillus megaterium: It is a phosphorus solubilizing bacterium that secretes organic acids, which dissolves the unavailable phosphorus in the soil thus converting it into soluble phosphorus and makes it available to the plants.

FEATURES AND BENEFITS



- Best suited for seed treatment and possess very high concentrated product with heavy load of spores.
- Reduces the requirement of chemical fertilizer (Phosphate) by 25%.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Seed treatment	10 gm of Phosphobat for seeds required for 1 acre	<ul style="list-style-type: none">● For seed treatment, mix the biosticker (provided along with the product) with required quantity of water.● Add 10 gm of Phosphobat to it and mix thoroughly. Slowly pour this solution and mix it with seeds required for one acre.● The treated seeds are shade dried for 5 minutes and are ready for sowing.

Note: For exports, the product is provided with an inbuilt biosticker which is mixed thoroughly with required quantity of water and shade dried for 15 - 30 minutes before sowing.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



06

TAG BIONIK

*Vesicular Arbuscular
Mycorrhizae (VAM)*



PRODUCT DESCRIPTION

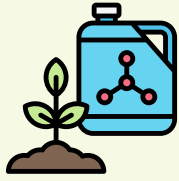
Tag Bionik is a biofertilizer product comprising a blend of the most useful range of mycorrhizae (VAM) spores and infective propagules. Tag Bionik contains carefully selected strains from the most efficient species of nutrient-mobilizing friendly fungi.

COMPOSITION

Organism	Vesicular Arbuscular Mycorrhizae (VAM)
Quality standards (<i>Glomus spp.</i>)	10 spores / gm of product
Formulation	Granules
Shelf life	24 months



MODE OF ACTION



- Immediate root colonization: The mycorrhizal inoculants colonize the roots of the plants immediately after application.
- Enhanced nutrient absorption: Mycorrhizae are so closely connected to the roots of plants that they are considered an extension of the root system. The extension of the effective root area of the plant, increases the absorption and translocation of immobile nutrients from the soil to the plants.
- Apart from mobilizing the essential nutrients to the plants, it also forms a protective shield against soil borne plant diseases.

FEATURES AND BENEFITS

ENHANCES/ INCREASES	REDUCES/ DECREASES
<ul style="list-style-type: none"> ● Photosynthesis uptake - Phytohormone activity- biomass, production and yield. ● Synthesizes organic acids & carbon dioxide so that the unavailable nutrients are made available to the plant. ● Resistance / tolerance of plants to stress, pests and diseases. ● Increases quality by enhancing the activity of growth substances i.e., gibberellins, auxins and cytokinin. ● Expanding plant feeding roots 200 times in the soil 	<ul style="list-style-type: none"> ● Salinity stress ● Crop stress ● Unavailability of nutrients to plants ● Harmful plant diseases and pests

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application (Broadcasting)	4 Kg per acre	Mix the required quantity of Tag Bionik with soil or FYM and broadcast it preferably at the time of sowing.

Note: Used from sowing to 30 days of crop

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

COMPATIBILITY

- Do not mix with chemical fungicides, urea or foliar fertilizers.
- Apply 7 days after application of chemical fungicides.

07

GOLD BIONIK

Vesicular Arbuscular Mycorrhizae (VAM)



PRODUCT DESCRIPTION

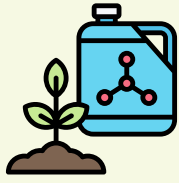
Gold Bionik is a biofertilizer product containing a mixture of the most useful range of mycorrhizae (VAM) spores and propagules. Gold Bionik contains selected strains of the most effective species of mycorrhizae.

COMPOSITION

Organism	Vesicular Arbuscular Mycorrhizae (VAM)
Quality standards (<i>Glomus spp.</i>)	Min. 1000 spores / gm of product
Formulation	Wettable Powder
Shelf life	24 months



MODE OF ACTION



- The mycorrhizal inoculants in Gold Bionik colonize the roots of the plant immediately after application.
- Mycorrhizae are so closely connected to the roots of plant that they are deemed as an extension of the root system. The extension of the effective root area of the plant, increase the absorption and translocation of immobile nutrients from the soil to the plants.

FEATURES AND BENEFITS

ENHANCES/ INCREASES	REDUCES/ DECREASES
<ul style="list-style-type: none"> ● Soil structure - Water retention capacity ● Photosynthesis - Phytohormone activity- biomass, production and yield ● Synthesizes organic acids & carbon dioxide so that the unavailable nutrients are made available to the plant. ● Resistance of plants to pests and diseases ● Growth substances i.e., gibberellins, auxins and cytokinin 	<ul style="list-style-type: none"> ● Salinity stress ● Crop stress ● Unavailability of nutrients to plants ● Harmful plant diseases and pests

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Seed dressing (Dry in shade for 30 min.)	2 - 10 gm / Kg of seed (Depending on seed size)	<ul style="list-style-type: none"> ● Gold Bionik is 100% water soluble. ● Mix the prescribed amount of Gold Bionik in required quantity of water. ● Exclusively used in drip irrigation system
Seedling root dipping	1 - 2 gm / L of water	
Drip irrigation	100 gm / acre	

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



08

TAG SIL

Ortho silicic acid



PRODUCT DESCRIPTION

Ortho silicic acid is the only bioavailable form of silicon to the plants. Tag Sil is a nextgen, new age beneficial nutrient product based on novel technology having stabilized ortho silicic acid (plant available silicon).

COMPOSITION

Nutrient	Silicon
Quality standards	2% ortho silicic acid
Formulation	Water Soluble Liquid
Shelf life	24 months



FEATURES AND BENEFITS



- It plays an important role in the absorption of NPK nutrients and acts as a carrier for other critical secondary micronutrients, resulting in higher productivity and improves nutrient use efficiency of fertilizers.
- It strengthens the defence mechanism against abiotic & chemical stress as it reinforces itself as a biogenic silica layer within leaves to provide rigidity and reinforcement to the cell wall.
- It provides rigidity and strength to crops to withstand abiotic stresses viz., temperature, drought, pests, diseases and lodging. Reduce heavy metals accumulation and other residues in crops, making the food safe for human consumption. No phytotoxicity even at very high dosage.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Soil application (Drenching)	600 ml per acre	Apply during critical stages of the crop for better results (apply minimum 2 times).
Foliar application	500 ml per acre	
Drip fertigation	600 ml per acre	

Note: Visual, results can be seen after 7 – 10 days after application.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



COMPATIBILITY

Can be used or mixed with inorganic / organic fertilizers, micronutrient or any pesticide.

09

TAG SIL GOLD

Ortho silicic acid



PRODUCT DESCRIPTION

Ortho silicic acid is the only bioavailable form of silicon to the plants. Tag Sil Gold is a nextgen, new age beneficial nutrient product based on novel technology having stabilized ortho silicic acid (plant available silicon).

COMPOSITION

Nutrient	<i>Ortho silicic acid</i>
Quality standards	Min. 0.08% plant available silicon
Formulation	Granules (GR)
Shelf life	24 months



FEATURES AND BENEFITS



- It plays an important role in the absorption of NPK nutrients and acts as a carrier for other critical secondary micronutrients, resulting in higher productivity and improves nutrient use efficiency of fertilizers.
- It strengthens the defence mechanism against abiotic & chemical stress as it reinforces itself as a biogenic silica layer within leaves to provide rigidity and reinforcement to the cell wall.
- It provides rigidity and strength to crops to withstand abiotic stresses viz., temperature, drought, pests, diseases and lodging. Reduce heavy metals accumulation and other residues in crops, making the food safe for human consumption.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application (Broadcasting, banding or ring method as per crop requirements)	5 Kg per acre	<ul style="list-style-type: none"> ● Mix the prescribed quantity of Tag Sil Gold with soil or FYM and broadcast (<i>or</i>) ● Can be used / mixed with inorganic / organic fertilizer, micronutrients granules or any other pesticide granules meant for soil application.

Note: Apply preferably during critical stages for better results.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



COMPATIBILITY

Can be used or mixed with inorganic / organic fertilizers, micronutrient granules or any pesticide granules meant for soil application.

10

TAG MAHASHAKTI

*Phosphate Rich Organic
Manure (PROM)*



PRODUCT DESCRIPTION

Tag Mahashakti, the pinnacle of balanced organic fertilizers, Phosphate Rich Organic Manure (PROM), is renowned as green chemistry phosphatic fertilizer, an essential macronutrient indispensable for the growth and development of all plants.

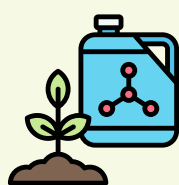
Scientific research underscores the efficiency of PROM in providing phosphorus to the soil compared to conventional chemical fertilizers like diammonium phosphate (DAP) and single super phosphate (SSP). Unlike DAP or SSP, where only approximately 30% of the phosphate becomes available to plants, Tag Mahashakti ensures a more effective utilization of this essential macronutrient. It offers a sustainable and efficient approach to enhance the phosphorous levels in the soil for optimal plant growth.



COMPOSITION

Nutrient	Phosphorus and total organic carbon
Quality standards	Total phosphorus (P ₂ O ₅) – 8% Total organic carbon – 8.0% C:N ratio - < 20:1
Formulation	Granules (GR)
Shelf life	12 months

MODE OF ACTION



Applying Tag Mahashakti stimulates the activity of micro-organisms that makes the food elements in the soil readily available for the plants and enhances the decomposition process by releasing CO₂ that effectively reduces the alkalinity of the soil, thus significantly developing the soil structure.



- Slow-release fertilizer - Improves soil physical properties like soil structure, porosity, increases infiltration and water holding capacity. Binds soil particles into aggregates.
- It facilitates the availability of phosphate in all soils hence, used as an alternative to DAP, Single Super Phosphate and Rock Phosphate.
- High yield and quality - It improves root development, increases stalk & stem strength, improves flower formation and seed production as well as facilitates early crop maturity.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	STAGE / TIME OF APPLICATION
Soil / basal application	50 - 100 Kg per acre	Apply during field preparation or nursery stage

Note: PROM also supplies phosphorus to the second crop planted in a treated area as efficiently as the first crop.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



11

NASA

*Granulated
organic manure*



PRODUCT DESCRIPTION

NASA is a granulated organic manure formulated with indigenously developed technology using a unique combination of active ingredients such as amino acids, humic acid, alginic acid and organic essence in correct balance.

COMPOSITION

Active ingredient	Organic manure granules
Formulation	Granules
Shelf life	36 months



FEATURES AND BENEFITS



- NASA increases the yield and quality of all kinds of crops.
- Amino acids increase yield and quality of the produce. Humic acid plays a variety of role in improving the crop stand and yield.
- Stimulates beneficial microbial activity in the root zone. Improves soil structure and soil aeration thus increases the nutrient uptake, photosynthesis and nutrient use efficiency.
- Safe to human beings, animals, non-target organisms and environment.
- No waiting period. Does not leave any residues in produce and environment.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application	1 - 2 kg per acre Fruits - 3 kg to 5 kg per acre Other crops - 1.5 kg to 3 kg per acre	Broadcast / spot application along with FYM / fertilizer or as a standalone product or mix with other fertilizers

Time of application: Multiple applications at critical growth stages of the crop ensures best results.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



12

TAG ROCKET

*Granulated
organic manure*



PRODUCT DESCRIPTION

Tag Rocket is a granulated organic manure formulated with patented indigenous technology using a combination of amino acids, alginates and organic essence.

COMPOSITION

Organic compounds	Alginic acid and amino acids
Formulation	Granules (GR)
Shelf life	36 months



FEATURES AND BENEFITS



- Utilized as a yield and quality booster for various crop types.
- Enhances nutrient uptake, photosynthesis and nutrient use efficiency.
- Stimulates microbial activity in the rhizosphere thus, improves soil structure and soil aeration.
- Improves tolerance against stress conditions.
- Amino acids increase yield and quality of the produce.
- Immediate effectiveness with no waiting period. Does not leave any residues in produce and environment.
- Safe to human, animals, non-target organisms and environment.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	STAGE / TIME OF APPLICATION
Basal (or) top dressing method	1.0 - 1.5 Kg per acre	Broadcast / spot application along with FYM / fertilizer or as a standalone product or mix with other fertilizers

Time of application: Multiple applications at critical growth stages of the crop ensures best results.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



13

TAG POTASH

Potash derived from molasses



PRODUCT DESCRIPTION

Tag Potash is a unique granular fertilizer manufactured from molasses renowned for its organic richness. It is a unique biological combination of high potash organic manure that optimizes the nutrient utilization by the plant for better crop growth and improvement of soil fertility, and it is economic as well. As a cornerstone of cultivating crops with superior quality, Tag Potash is fortified with potassium, a vital nutrient that ensures optimal plant health and development, making it an indispensable asset for farmers seeking exceptional yields and top-notch crop quality. Tag Potash also minimizes the fruit & flower drop.



COMPOSITION

Nutrients	Potassium
Quality standards	Potassium – 14.5%
Formulation	Granules (GR)
Shelf life	24 months

FEATURES AND BENEFITS



- Along with increasing the fertility of the soil, it keeps moisture in the soil for a longer time thus, it improves soil aeration and prevents leaching losses.
- It increases availability by providing mobility to organic potash and other elements.
- Helps to increase plant growth and immunity. Increases crop maturity, grain size, and lustre.
- Prevents fruit and flower drop.
- This eco-friendly product is available at an economical cost and is best for improving photosynthesis efficiency as it regulates CO₂ intake.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil / basal application	100 - 150 Kg per acre	Broadcast / spot application along with FYM / Fertilizer or as a standalone product or mix it with other fertilizers

Time of application: It can be used during all stages of the crop.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



14

TAG K20

Potash Derived from Rhodophytes (PDFR)



PRODUCT DESCRIPTION

Tag K20 is a first-of-its kind next-generation, unique organic fertilizer. It is the farm's best power-packed nutrient containing Potash derived from Rhodophytes, a marine-origin red alga rich in potash. Additionally, it is also loaded with sulphur and bio active molecules apart from potash providing a comprehensive blend of nutrients.

COMPOSITION

Active ingredient	Organic potash derived from rhodophytes (Min. 20%)
Other compounds	Sulphur (Min. 1.5%)
Formulation	Water Soluble Powder
Shelf life	24 months



FEATURES AND BENEFITS



- The distinctive TURGE technology (Targeted UpRegulation of Gene Expression) in Tag K20 targets specific genes within a plant facilitating the expression, performance, and realization of the plants full potential.
- PDFR is a low dose high impact formulation.
- PDFR is a certified organic fertilizer that helps to improve the overall quality of the produce by enhancing the flowering and fruiting of the crops.
- PDFR helps to withstand abiotic stress in plants and enhances hormonal activity thereby improving shape, size, shine and color of fruits.
- Tag K20 improves the organo-leptic factors like taste, aroma and color of the produce.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Foliar application	48 g per acre	● Mix the required amount of Tag K20 with required volume of water and spray.
Drip irrigation	98 g per acre	● It can be applied along with other fertilizers and pesticides.

Time of application: Best results are achieved when applied during flower initiation and fruit maturity stages.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



PRECAUTIONS

Highly hygroscopic and hence, to be used immediately after opening.

15

TAG SOIL HELTH

*Bioenriched
organic manure*



PRODUCT DESCRIPTION

Tag Soil Helth is a patented product with a unique combination of organic manure, beneficial microbes and amino acids, enriched with nitrogen fixing bacteria and Phosphate solubilizing bacteria.

COMPOSITION

Organism	Nitrogen fixing bacteria Phosphorus solubilizing bacteria
Quality standards	Nitrogen fixing bacteria - 1×10^7 CFU per gm of the product. Phosphorus solubilizing bacteria - 1×10^7 CFU per gm of the product.
Formulation	Granules (GR)
Shelf life	12 months



FEATURES AND BENEFITS



- Tag Soil Helth improves soil texture, structure and population of rhizosphere microorganisms, besides augmenting critical crop nutrient requirements.
- Tag Soil Helth is a good supplement for inorganic fertilizers.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Basal (or) top dressing method	25 - 50 Kg per acre depending on the crop and soil fertility.	Apply preferably during critical stages of the crop for better results.

Note: Acts as a good supplement when applied along with recommended inorganic fertilizers as basal dose.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



16

TAG CARB-N GR

Organic manure



PRODUCT DESCRIPTION

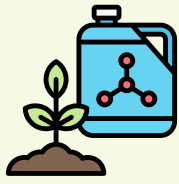
Tag Carb-N GR is a granulated organic manure product that provides the essential organic carbon to the soil along with other nutrients like nitrogen, phosphorus and potassium for crop growth, all in organic form.

COMPOSITION

Active ingredient	Organic carbon and NPK
Formulation	Granules
Shelf life	24 months



MODE OF ACTION



- Application of Tag Carb-N GR in the soil helps in the proliferation of beneficial soil microbes, that helps in digestion of organic wastes and converts it into rich organic matter resulting in the attraction of more earthworms.
- Increased soil microbes and earthworms helps to boost the quality and fertility of the soil.

FEATURES AND BENEFITS



- Tag Carb-N GR contains organic carbon and all the essential nutrients in organic form which are highly essential for healthy and productive growth of crops and soil.
- Increased soil microbes and earthworms results in better root growth, shoot growth and increased yields.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application (Broadcasting)	4 kg per acre	<ul style="list-style-type: none">● Tag Carb-N GR can be mixed with soil / sand and broadcast uniformly and top dressing can be done at critical crop growth stages.● Apply at regular intervals to get maximum benefits.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



17

TAG BIO

Biostimulant



PRODUCT DESCRIPTION

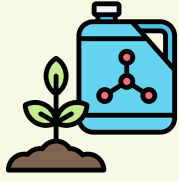
Tag Bio contains natural and enriched organic bio stimulant containing humic acid and other naturally derived plant extract.

COMPOSITION

Active ingredient	Seaweed extract (35%)
Formulation	Soluble Powder
Shelf life	24 months



MODE OF ACTION



Tag Bio naturally enhances the microbial activity in soil making it viable for the development of healthy root zone with increased absorption or uptake capacity.

FEATURES AND BENEFITS



- Tag Bio contains 100% natural, ecofriendly, and enriched organic bio stimulant which helps to increase the yield and quality of the produce.
- The product increases the uptake of nutrients leading to increased drought tolerance.
- Tag Bio enhances the growth of micro-organisms and stimulates root development.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application	500 – 1000 gm per acre	Broadcast / spot application along with FYM / fertilizer.
Foliar application	50 – 100 gm per acre	Add the prescribed quantity of Tag Bio in required quantity of water and stir thoroughly until it completely dissolves. Pour the solution into the spray tank and spray.

Time of application: Apply at critical growth stages of the crop for better results.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



18

TAG CARB-N

Fish protein hydrolysate



PRODUCT DESCRIPTION

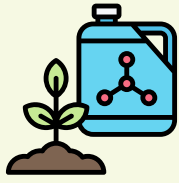
Tag Carb-N is a unique biostimulant containing protein hydrolysates from marine fauna. The product contains organic carbon and essential nutrients such as NPK along with other secondary nutrients and micronutrients. Certified organic by ECOCERT and OMRI, this product is suitable for all crop varieties.

COMPOSITION

Active ingredient	Fish protein hydrolysate
Organic carbon	Min. 25 %
Essential nutrients (N, P& K)	Min. 6 %
Formulation	Liquid
Shelf life	24 months



MODE OF ACTION



- Application of Tag Carb-N in the soil helps in the proliferation of beneficial soil microbes, that helps in digestion of organic wastes and converts it into rich organic matter resulting in the attraction of more earthworms.
- Increased soil microbes and earthworms helps to boost the quality and fertility of the soil.

FEATURES AND BENEFITS



- Tag Carb-N contains organic carbon and all the essential nutrients in organic form which are highly essential for healthy and productive growth of crops and soil.
- Promotes the proliferation of beneficial soil microbes and earthworms, contributing to improved soil health and fertility.
- Enhances soil water retention capacity and aeration.
- Maintains the pH in the soil.
- Increased soil microbes thereby result in better root growth, shoot growth and yield.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application (Broadcasting / soil drenching)	400 - 800 ml per acre	Tag Carb-N can be mixed with soil / sand and broadcasted uniformly.
Drip irrigation		Tag Carb-N is 100% water soluble. Mix the required amount of Tag Carb-N with required quantity of water and apply at regular intervals.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables,
ornamental crops, oilseeds, cash crops, fruits,
flowering and plantation crops.

19

TAG LAMINA

Seaweed Extract



PRODUCT DESCRIPTION

Tag Lamina is made of the best source of seaweed, containing a homogeneous composition of *Laminaria digitata*, imported from Algaia, a France based Seaweed company. Extraction is done through natural processes without any chemicals to optimize the yields.

COMPOSITION

Active ingredient	Alginates
Other compounds	Higher load of laminarins, fucoidans, uronic acids, mannitol and phenolic compounds.
Formulation	Liquid
Shelf life	24 months



FEATURES AND BENEFITS



- Tag Lamina is naturally rich in chelating and stabilizing alginates thus, works as a chelating agent in soil.
- Tag Lamina aids in stress management, particularly in drought conditions, and rectifies micronutrient deficiencies.
- Improves the vegetative growth and yield.
- Facilitates early flowering, leading to accelerated reproductive development and potentially earlier harvests for increased productivity.
- Induces healthy growth of plant and disease resistance.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Foliar spray	1 – 2 ml per litre of water	Mix 1ml – 2ml of Tag Lamina per litre of water and spray it on the crop regularly at weekly intervals or at every fortnight. Repeat the spraying for 5 to 8 times depending on the duration of the crop.
Drip irrigation	1 litre per acre	Use 1L of Tag Lamina per acre at every fortnight or at 3 weeks interval regularly consistently for 3 - 4 times.

Note: For best results, apply during critical growth stages of the crops. Tag Lamina yields superior results, when applied in small doses over multiple applications.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



20

TAGZYME

Seaweed Extract



PRODUCT DESCRIPTION

Tagzyme is a unique combination of microbial metabolites such as proteins, protein hydrolysates, amino acids, organic acids, enzymes, growth promoters and vitamins with complex chelated secondary metabolites and micronutrients. The gentle extraction process ensures the release of vital plant hormones without denaturing any components.

COMPOSITION

Active ingredient	Alginic acid
Formulation	Liquid
Shelf life	24 months



FEATURES AND BENEFITS



- Acts as growth promoters and contains vitamins with complex chelated secondary metabolites and micronutrients.
- Stimulates increased root growth and enhances photosynthesis by increasing plants chlorophyll.
- Improves the vegetative growth and yield.
- Increases early flowering.
- Induces healthy growth of plant and disease resistance.

DOSAGE AND RECOMMENDATIONS FOR USE

FORMULATION	METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Granules	Basal and foliar application	8 - 16 kg per acre	1 st Application: At the time of basal dose application. 2 nd Application: 30 - 50 days after sowing / transplanting. 3 rd Application: 55 - 60 days after sowing / transplanting. 4 th Application: 90 days after plantation (for sugarcane)
Liquids	Basal and foliar application	200 ml per acre (or) 1 - 2 ml per litre water	Apply prior to flowering and continue at an interval of 15 days.

Note: For best results, apply during critical growth stages of the crops. Tagzyme gives better results, when applied in small quantities for multiple times.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



21

TROPICANA

Seaweed Extract



PRODUCT DESCRIPTION

Tropicana is an advanced biotech product, which is highly effective, natural in origin, biodegradable and eco-friendly. It serves and enhances the uptake and utilization of key nutrients both during vegetative and reproduction growth stages of the plant.

COMPOSITION

Active ingredient	8% Seaweed extract
Formulation	Liquid
Shelf life	24 months



FEATURES AND BENEFITS



- Tropicana stimulates plant growth by accelerating cell division and increasing the rate of root growth.
- Boosts flowering, fruit setting, uniform grain development, and yield.
- Protects the plants during critical stress periods such as drought & water stagnation.
- Improves the quality of crops and harvest by optimizing metabolic processes and facilitating the efficient utilization of applied nutrients.
- Promotes nutrient uptake in plants during vegetative and reproduction growth phases.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Foliar application	250 - 500 ml of Tropicana per acre diluted with 100 - 200 litres of water. (Depending on the crop type and stage growth of plant)	Apply prior to flowering and continue spraying at regular intervals of 20 - 25 days.

Note: For best results, apply during critical growth stages of the crops.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



22

HUMACID

Seaweed Extract



PRODUCT DESCRIPTION

Humacid is a revolutionary product derived from a natural process that harnesses the richness of humus. Born from the remnants of plants thriving in wet environment, Humacid undergoes a transformative journey of heating, compaction, and slow carbonization over time. Nestled beneath layers of rock and sand, these deposits, also known as “leonardite,” emerge as the primary source of humic acids and esters.

COMPOSITION

Active ingredient	6% seaweed extract
Formulation	Liquid
Shelf life	24 months



FEATURES AND BENEFITS



- Boosts the buffering capacity of the soil, enhancing its structure and augmenting organic matter content thereby, contributing to enhanced soil fertility.
- Improves plant growth, soil fertility & aeration for better growth and development of root zone.
- It also improves vegetative growth in plants. Humacid effectively increases the yield of crops and fosters proper environment for soil microbial mass.
- Neutralizes both acidic and alkaline to make it into an optimized soil environment with pH 5.5 - 7.0.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE
Soil drenching	1 - 2 ml of Humacid per litre of water
Seed treatment	5 - 10 ml of Humacid per kg of seed (10 - 15 ml per kg for small-seeded crops)
Seedling root treatment	20 - 25 ml per litre of water. Dip the seedling root for sufficient time before transplanting
Drip irrigation	1 - 2 litre of Humacid per acre.
Foliar application	1 - 2 ml per litre water using knapsack sprayers. 2 - 4 ml per litre of water using power sprayers.

Note: For best results, Apply Humacid during active growth and reproductive stages.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, fodder, flowering and plantation crops.



23

SUPER POWER G

Enriched organic soil conditioner and nutritional enhancer



PRODUCT DESCRIPTION

Super Power G is a naturally occurring organic soil conditioner containing vitamins with complex chelated secondary metabolites and micronutrients. Super Power G has a unique molecular structure that increases nutrient assimilation and provides multiple benefits to enhance the crop yield.

COMPOSITION

Active ingredient	1.5 % seaweed extract
Formulation	Granules
Shelf life	24 months



FEATURES AND BENEFITS



- The product improves soil structure, soil aeration and stimulates beneficial microbial activity in the root zone which effectively increases root mass, fruit yield and biomass of the plant.
- It restores and ensures continuity of biocycles and increase soil fertility by:
 - (i) Increasing micro-flora population.
 - (ii) Accelerating organic matter decomposition.
 - (iii) Increasing humus / carbon content.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Soil application (Broadcast, spot or band application around plants)	5 - 10 Kg per acre	Broadcast along with FYM / organic manure / Fertilizers. Incorporate directly into the soil before crop planting and fertilizer application. 2 – 4 applications depending upon soil condition, type and duration of crop.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

COMPATIBILITY

Super Power G is eco-friendly and is compatible with chemical pesticides & fertilizers.

24

TAG VERIA

Beauveria bassiana



PRODUCT DESCRIPTION

Tag Veria contains most virulent strain of *Beauveria bassiana*, a broad spectrum entomopathogenic fungus, which is effective against various sucking and chewing insects.

COMPOSITION

Organism	<i>Beauveria bassiana</i>
Quality standards	Minimum 1 X 10 ⁸ per gm of Colony Forming Units (CFU) of product
Formulation	Wettable Powder
Shelf life	12 months



FEATURES AND BENEFITS



Tag Veria is used as a best Integrated Pest Management (IPM) tool for insect resistance management. No waiting period, safer to humans, animals, environment, non-target organisms and do not leave any harmful residues in food product and soil.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Soil drenching	5 gm / L of water	<ul style="list-style-type: none">● Use Tag Veria for soil application / drenching as a prophylactic measure and apply in the field on appearance of target insects in various crops, preferably during late evenings for optimum efficacy.
Broadcasting (mix with FYM or soil)	1 Kg / acre	<ul style="list-style-type: none">● Regular applications @ 20 – 30 days interval starting from 20 – 25 days after sowing / planting ensures disease free crop.
Foliar / drip irrigation	5 gm / L of water	<ul style="list-style-type: none">● Mix 5 gm of Tag Veria in 1 L of water and do the foliar spray uniformly on the crop (ensure we do foliar spray on both side of leaves) at the very first incidence of pests appearance during early morning / late evening hours. May repeat the application after 7 to 10 days interval.

NOTE: Normally, death of the target pests can be noticed from the 3rd day after spraying.

TARGET INSECTS

Thrips, mites, whiteflies, aphids, grasshoppers, termites, stem borers & fruit borers, beetles and leaf-eating / lepidopteran caterpillars.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

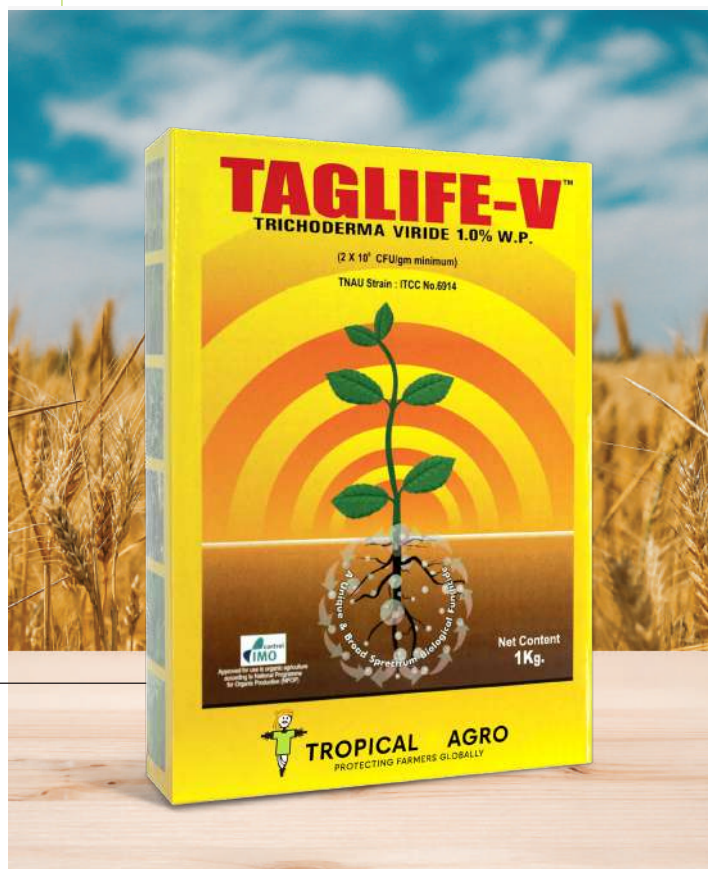
COMPATIBILITY

- The product is compatible with botanical and common agricultural chemicals except chemical fungicides.
- Apply 7 days after application of chemical bactericides or fungicides.

25

TAGLIFE-V

Trichoderma viride



PRODUCT DESCRIPTION

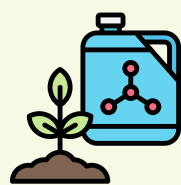
Taglife-V is an antagonistic fungal organism that contains *Trichoderma viride* which is highly effective against a wide range of seed and soil borne plant diseases.

COMPOSITION

Organism	<i>Trichoderma viride</i>
Quality standards	Minimum 2 X 10 ⁶ per gm of Colony Forming Units (CFU) of product
Formulation	Wettable Powder
Shelf life	12 months



MODE OF ACTION



Trichoderma viride when applied, colonizes the soil or rhizosphere of the crop and secretes a range of extracellular compounds that inhibits the growth, reproduction, and infection of pathogenic microorganisms through antibiosis. They contain live conidiospores and chlamyospores that germinate under favourable conditions. It also inactivates the enzymes produced by pathogens to invade the plants.

FEATURES AND BENEFITS



- Effective against wide range of soil and seed borne diseases.
- Controls tough-to-control plant pathogens like Fusarium, etc.
- Safer to environment and do not leave any harmful residues in food product and soil.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Seed dressing (Dry in shade for 30 min.)	10 gm / Kg of seed	<ul style="list-style-type: none">● Use Taglife-V for seed / rhizome treatment / root dipping / soil application as a prophylactic measure and apply in the field on appearance of disease symptoms in various crops, preferably during late evenings for optimum efficacy.● Regular applications @ 20 – 30 days interval starting from 20 – 25 days after sowing / planting ensures disease free crop.
Rhizome / tuber / cuttings	10 gm / L of water	
Root dipping	10 gm / L of water	
Soil drenching / broadcasting (with FYM or soil)	1 Kg per acre	

TARGET DISEASES

Wilt, white mold, brown spot, damping off, root rot, stem rot, charcoal rot and dieback causing seed and soil borne plant pathogens like Sclerotium spp., Pythium spp., Phytophthora spp., Fusarium spp., Rhizoctonia spp., Sclerotinia spp. and Ustilago spp. which infects different kinds of crops.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

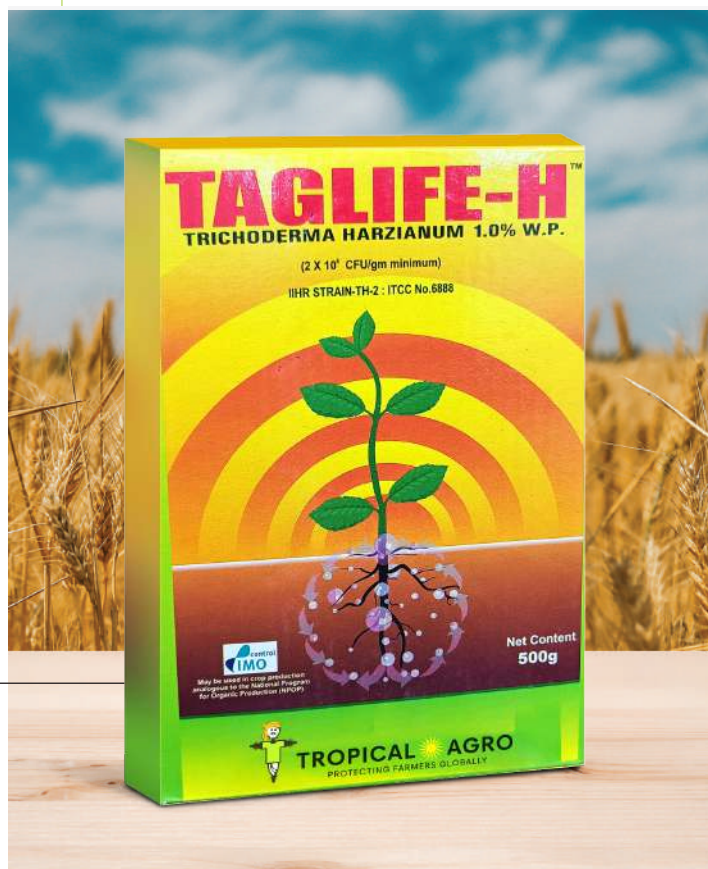
COMPATIBILITY

Do not mix with chemical fungicides. Apply 7 days after application of chemical fungicides.

26

TAGLIFE-H

Trichoderma harzianum



PRODUCT DESCRIPTION

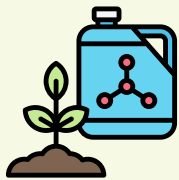
Taglife-H (*Trichoderma harzianum*) an antagonistic fungal organism is highly effective against a wide range of seed and soil borne plant diseases.

COMPOSITION

Organism	<i>Trichoderma harzianum</i>
Quality standards	Minimum 2 X 10 ⁶ per gm of Colony Forming Units (CFU) of product
Formulation	Wettable Powder
Shelf life	12 months



MODE OF ACTION



Trichoderma harzianum when applied, colonizes the soil or rhizosphere of the crop and secretes a range of extracellular compounds that inhibits the growth, reproduction and infection of pathogenic microorganisms through antibiosis. They contain live conidiospores and chlamydospores that germinate under favourable conditions. It also inactivates the enzymes produced by pathogens to invade the plants.

FEATURES AND BENEFITS



- Effective against wide range of soil and seed borne plant diseases. Controls tough -to -control plant pathogens like Fusarium, etc.
- It's a broad-spectrum antimicrobial agent which has strong compatibility and rapid reproduction rate. Safe to environment and does not leave any harmful residues in food product and soil.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Seed dressing (Dry in shade for 30 min.)	10 gm / Kg of seed	<ul style="list-style-type: none">● Use Taglife-H for seed / rhizome treatment / root dipping / soil application as a prophylactic measure and apply in the field on appearance of disease symptoms in various crops, preferably during late evenings for optimum efficacy.● Regular applications @ 20 – 30 days interval starting from 20 – 25 days after sowing / planting ensures disease free crop.
Rhizome / tuber / cuttings	10 gm / L of water	
Root dipping	10 gm / L of water	
Soil drenching / broadcasting (with FYM or soil)	1 Kg per acre	

TARGET DISEASES

Wilt, white mold, brown spot, damping off, root rot, stem rot, charcoal rot and dieback causing seed and soil borne plant pathogens like *Sclerotium* spp., *Pythium* spp., *Phytophthora* spp., *Fusarium* spp., *Rhizoctonia* spp., *Sclerotinia* spp. and *Ustilago* spp. which infects different kinds of crops.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

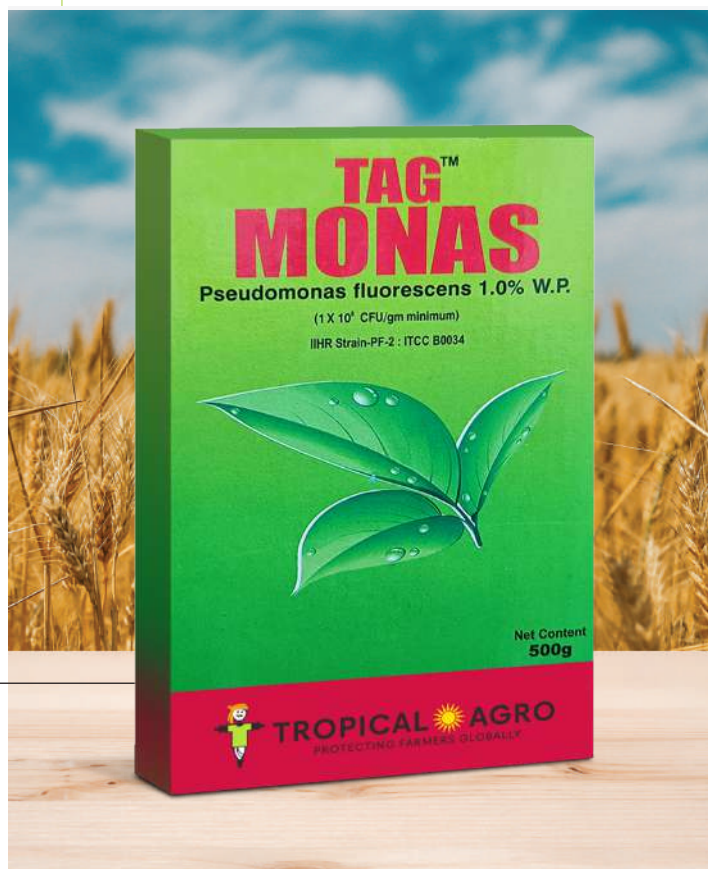
COMPATIBILITY

Do not mix with chemical fungicides. Apply 7 days after application of chemical fungicides.

27

TAG MONAS

Pseudomonas fluorescens



PRODUCT DESCRIPTION

Tag Monas contains *Pseudomonas fluorescens*, an antagonistic bacterium, effective against a wide range of foliar, seed and soil borne plant diseases. Tag Monas is a broad-spectrum fungicide, bactericide, nematicide and also a plant growth promoter.

COMPOSITION

Organism	<i>Pseudomonas fluorescens</i>
Quality standards	Minimum 1×10^8 per gm of Colony Forming Units (CFU) of product
Formulation	Wettable Powder
Shelf life	12 months



FEATURES AND BENEFITS



- Tag Monas can be effectively used in wet land agroecosystem as it contains fast multiplying bacterium that can thrive even under unfavourable anaerobic conditions.
- Tag Monas can be widely used in millets and paddy growing areas as the organism can proliferate well in saline soils. No waiting period, safer to environment, non-target organisms and does not leave any harmful residues in food product and soil.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Soil drenching / broadcasting (mix with FYM or soil)	1 Kg per acre	<ul style="list-style-type: none"> ● Use Tag Monas for seed / rhizome treatment / root dipping / soil application as a prophylactic measure and apply in the field on appearance of disease symptoms in various crops, preferably during late evenings for optimum efficacy. ● Regular applications @ 20 – 30 days interval starting from 20 – 25 days after sowing / planting ensures disease free crop. ● Mix 5gm of Tag Monas in 1 L of water and do the foliar spray uniformly on the crop (ensure we do foliar spray on both side of leaves) at the very first incidence of pest appearance during early morning / late evening hours. May repeat the application after 7 to 10 days interval.
Seed dressing (Dry in shade for 30 min.)	10 gm / Kg of seed	
Rhizome / tuber / cuttings	10 gm / L of water	
Root dipping	10 gm / L of water	
Foliar	5 gm / L of water	

TARGET DISEASES

Root rot, stem rot, collar rot, wilt, blights, leaf spots, anthracnose, alternaria etc.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

COMPATIBILITY

Do not mix with chemical fungicides. Apply 7 days after application of chemical fungicides.

28

TAG NEMA

Paecilomyces lilacinus



PRODUCT DESCRIPTION

Tag Nema contains most virulent strain of *Paecilomyces lilacinus*, a nematophagous fungus highly effective even under varied conditions and crops.

COMPOSITION

Organism	<i>Paecilomyces lilacinus</i>
Quality standards	Minimum 2×10^6 per gm of Colony Forming Units (CFU) of product
Formulation	Wettable Powder
Shelf life	12 months



MODE OF ACTION



Paecilomyces lilacinus when applied covers the egg surface of the nematode and becomes closely appressed to it. It produces a network of hyphae and appressoria on the eggshell and then penetrates the eggshell with the help of proteases and chitinase. After penetrating the egg, it rapidly destroys the juvenile, before growing out of the egg to produce conidiophores. Mode of action is also same for juvenile and adult stages.

FEATURES AND BENEFITS



- Highly effective against dangerous nematodes like root knot nematodes, cyst nematodes and reniform nematode etc.
- Effectively controls all stages of nematodes like egg, juvenile and adult.
- No waiting period, safe to human, animals, environment, non-target organisms and does not leave any harmful residues in food product and soil.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	TIME OF APPLICATION
Soil drenching / Broadcasting (mix with FYM / soil)	1 Kg per acre	<ul style="list-style-type: none">● Use Tag Nema for seed / rhizome treatment / root dipping / soil application as a prophylactic measure and apply in the field on appearance of disease symptoms in various crops, preferably during late evenings for optimum efficacy.● Regular applications @ 20 – 30 days interval starting from 20 – 25 days after sowing / planting ensures disease free crop.
Seed dressing (Shade dry for 30 min.)	10 gm / Kg of seed	
Rhizome / tuber / cuttings	10 gm / L of water	
Root dipping	10 gm / L of water	

TARGET NEMATODES

Root knot nematodes, potato golden cyst nematode, cyst nematodes, citrus nematode, banana burrowing nematode, reniform nematode etc.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.

COMPATIBILITY

Do not mix with chemical fungicides. Apply 7 days after application of chemical fungicides.

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TAG RANGE

Natural terpenes

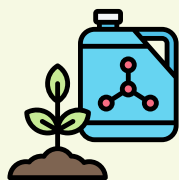


PRODUCT DESCRIPTION

Tag Range is a novel new generation plant extract based formulation with a combination of natural terpenes derived from orange peel oil. The unique combination of natural extracts is very effective in breaking down the coating of the sucking pests and effectively acts on the pest for a quick knock down. The active ingredients are effective on the various stages of life cycle of the sucking insect pests.



MODE OF ACTION



Contact & stomach with translaminar translocation properties.

FEATURES AND BENEFITS



- It controls several sucking pests like aphids, mealybugs, thrips, scales, jassids, whiteflies and mites.
- It exhibits strong ovicidal properties.
- It breaks down the coat on the cuticle thus makes the pests vulnerable for the natural active ingredients in the formulation to effectively knock down the pests.
- It is effective on all the life stages of the sucking pests.
- The natural extracts also exhibit antifungal and antibacterial properties.
- The product is organic certifiable.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE
Foliar application	250 to 400 ml per acre depending on the spray equipment.	An effective wetting agent / spreader is recommended to be used along with the formulation.

Protects crops from various sucking pests like aphids, mealy bugs, scales, whiteflies, thrips, jassids and other types of mites in all commercially cultivated field, horticultural and plantation crops.

RECOMMENDED CROPS

All crops: cereals, pulses, vegetables, ornamental crops, oilseeds, cash crops, fruits, flowering and plantation crops.



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PROPEL

Microbial digester

PRODUCT DESCRIPTION

Propel is a digester which contains unique mixture of composting microbes for activating the composting process, comprising of enzymes, cellulose, starch, phenol and lignin digesting microbes to degrade the farm residues.

It can digest organic materials like land filled wastes like food, wood, sludges and agriculture waste like bagasse, industrial manufacturing by products, yard trimmings, seafood processing wastes and anything biodegradable.

COMPOSITION

Active ingredients (Microbes)

1 x 10⁷ Colony Forming Units (CFU) per gm of the product

Formulation

Wettable Powder

Shelf life

12 months

FEATURES AND BENEFITS

- Minimize the interval period between kharif and rabi & vice versa in intensive cropping area and no waiting period for sowing / transplantation after Propel application.
- Enhances the crop establishment for the next crop and helps in recycling the residual macro & micronutrients available to the next crop.
- It can be used for preparation of compost from a variety of agricultural waste, domestic waste, municipal solid waste, vegetable and garden waste, leaf waste and wood clippings.
- This product is non-toxic, eco-friendly, safe and effective in digesting and composting any biodegradable wastes.
- This product preserves bio-diversity and improves the soil structure.

DOSAGE AND RECOMMENDATIONS FOR USE

METHOD OF APPLICATION	DOSAGE	DIRECTIONS FOR USE	TIME OF APPLICATION
Heap method	1 Kg per 4 tonnes of waste	<ul style="list-style-type: none"> ● 1 Kg of Propel is mixed with 20L of 1 Kg jaggery solution. ● The container is closed tightly and kept for 2 days. ● 5L can be diluted with 200L water and applied uniformly to 1MT of solid waste. 	Application of Propel is to be made at 2 stages. First spray at the time of heaping and the second, after 15 days.

STEP WISE USAGE OF PROPEL IN HEAP:

Step 1: Make a heap of organic waste at 3 feet height and 3 feet breadth and convenient length depending upon the availability of the material.

Step 2: Spray the above prepared mixture solution uniformly.

Step 3: Organic heap should be moistured and mixed well once in a week or 15 days. The moisture in the heap should be maintained throughout the composting process.

Broadcasting	2 Kg for 1 acre	After harvest, field should be irrigated, then Propel @ 2 Kg can be broadcasted by mixing with sand / FYM (sufficient quantity to broadcast for 1 acre) and then puddled thoroughly to churn the applied Propel with root mass beneath the soil too.
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Note: Puddling should be done as soon as possible after Propel application to ensure better performance. If the land is slopy, it is recommended to irrigate the field before Propel application to avoid runoff. In black cotton soil & clay soils, its recommended to plough once before irrigation helps more easy incorporation of Propel culture with residues.

For light soils: Ploughing before irrigation is not required. Even at semi moist condition also we will get good results but takes a bit longer time.

OBSERVATIONS AFTER PROPEL APPLICATION:

After incorporation at anaerobic condition, decomposing microbial spores in Propel proliferate in multimillion folds and start digesting the crop residues in 48 to 72 hours.

1. One can notice unpleasant smell from the puddled field, 3 to 4 days after application. On 4th day after application, the hard stalks / farm waste becomes soft and broken down & turned into dark color.
2. On 6th to 7th day, farmer can notice that the soil becomes fluffy and smooth.
3. The soil color will become dark, indicating more organic matter & free of stubbles.
4. Residues converted into organic matter. The carryover minerals in the decomposed residues are readily available for the next crops.



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