

FAQ & Answers on Bio-Fertilizers!

AADHAAR Gold

IINM
CHAKRA

G-VAM

N-FACTOR

@.FACTOR

K FACTOR

Zn-FACTOR

BioNPK

DAP

Potash

PROCEED

PRITHVI

PROMOTE

SUMCA

BELOM

KINGK
Potash Derived from Rhodophyte

BELOM-S1

BELOM-S2

BELOM-S3

POSHAK

High-K

ZINCUM

CAMBO

FERRON

MAGNIS

TRUMIN

COPSE

Bsl4 Agri



NUTRI4

Nutriton

Virnix

FLOWMIN

Sampoorna

Agriseal

BOC

INVICTUS

NEMATOFF



RELEAF

Native neem

- Click the Product Photos to go to the Product Video
- Click Biofactor logo to go to Product page



WE, A FAMILY



BIOFACTOR

— Designed By Nature Delivered By Us —



Introduction:

Biofactor stands as a leading innovator in the bio-fertilizer industry. We are committed to transforming agricultural practices through the application of cutting-edge biotechnologies. Recognizing the critical role of healthy soil in sustaining a robust food system, Biofactor empowers farmers with scientifically-driven bio-fertilizer solutions. These solutions enrich soil health, enhance crop yields, and safeguard the well-being of future generations.

A Decade of Groundbreaking Innovation: For over a decade, Biofactor has been at the forefront of agricultural innovation. We dedicate ourselves to understanding the evolving challenges faced by modern farming. Our focus lies in developing bio-fertilizers and organic inputs that address the critical issues of declining soil fertility and the impact of chemical fertilizers on human health. Our meticulous formulations, created using revolutionary technologies, ensure the efficient delivery of essential macro and micronutrients to crops.

Pioneering Research and Development: Biofactor maintains a state-of-the-art R&D laboratory, recognized by the Department of Scientific and Industrial Research (DSIR), Government of India. Our team of highly qualified scientists is dedicated to pioneering advancements in bio-fertilizer technology. We hold eight patents and have developed 35 proprietary microbial strains, all meticulously selected for their effectiveness in promoting soil health and crop growth.

Global Collaboration, Local Impact: Biofactor fosters a collaborative spirit, working closely with leading agricultural universities and research institutions worldwide. This global perspective allows us to develop solutions tailored to the specific needs of diverse crops and regional agricultural environments. We are proud to be a member of esteemed organizations such as the Fertilizer Association of India (FAI) and the Indian Council of Agricultural Research - Central Institute for Research on Cotton Textiles (IC-AR-CIRCOT). These affiliations further strengthen our commitment to supporting the agricultural community.

A Legacy of Excellence in Sustainable Solutions: Biofactor has established itself as a leader in the global agricultural sector through continuous innovation and unwavering dedication to sustainability. Our groundbreaking MAMSP technology revolutionizes nutrient delivery to plants by converting them into micron-sized particles, enabling optimal nutrient uptake and promoting exceptional growth and yield.

Building a Sustainable Future, Together: As Biofac Inputs expands its global reach, we remain resolute in our commitment to promoting sustainable practices in agriculture, poultry, and livestock industries. We believe in empowering farmers with innovative solutions that enhance soil health, improve crop quality, and ensure the long-term viability of our agricultural ecosystems.

Invitation to Collaboration: Biofactor invites you to join us in cultivating a healthier and more sustainable future. Together, let's leverage the power of bio-technology to nourish the Earth for generations to come.

Wishing you prosperity and well-being



Lakshminarayana Reddy



BIOFACTOR

Designed By Nature Delivered By Us



Welcome to the realm of crafted supremacy with the new range of soil health products where standards are redefined and technology revolutionized with every parameter is meticulously crafted every product precisely produced it is a testament to supreme quality.

Biofactor is designed to command respect at every move.

FAQ & Answers on Bio-Fertilizers!

1 What are Bio-Fertilizers?

- ✓ A mixture of micro organisms that are alive and provide nutrients to crops of agricultural importance,

2 What is the necessity of using Bio-Fertilizers in Agriculture?

- ✓ Only 25-50% of the nutrients (Nitrogen, Phosphorus, Potash, Zinc & Iron) present in our commonly used chemical fertilizers like Urea, DAP, Super, Potash, Zinc Sulphate and other fertilizers are available to the plant. The remaining 50-75% of nutrients remain in a neutral state in the soil. The only way these nutrients can be supplied to the plant is through Bio-Fertilizers.

3 What are the benefits of using Bio-Fertilizers?

- ✓ **Availability of Nutrients:**
 - * It assimilates nitrogen from the air and dissolves phosphorus, potash, zinc, iron and other nutrients in the neutral state of the soil and provides them to the plant. Thus the use of chemical fertilizers is reduced by 20-25% and yield is increased by 15-20%.
 - * Micro organisms release biochemicals near plant roots that are useful for plant growth.
 - * Protects the plant from waterlogging. Prevents some types of soil-borne diseases.
 - * The number of good micro organisms increases and the soil becomes fertile.

4 How many types of bio-fertilizers are there?

- ✓
 - * Nitrogen fixing bacteria
 - * Phosphorus solubilizing bacteria / fungus
 - * Potash releasing bacteria
 - * Zinc releasing bacteria
 - * Iron releasing bacteria..

5 How to use Bio-Fertilizers?

- ✓
 - * Solid Bio-Fertilizers should be applied in the last furrow, in the feet removed at the time of seeding and along the top.
 - * Liquid Bio-Fertilizers can be used for seed treatment and should be applied during the first week of seed planting and during irrigation or drip irrigation.
 - * Bio-Fertilizers containing endophytic micro organisms should be applied during the first week after seeding and during irrigation or drip irrigation or spraying.

6 What precautions should be taken in the use of Bio-Fertilizers?

- ✓
 - * Organic matter is essential for the growth of micro organisms in the soil. So, while applying Bio-Fertilizers, if they are mixed with organic fertilizers, more results will be obtained.
 - * The moisture content of the soil should be sufficient.

7 What are the current problems in the use of Bio-Fertilizers?

- ✓
 - * Non-availability of high temperature resistant microbial species.
 - * Lack of new microbial species that have stabilized to suit our region.
 - * Lack of Bio-Fertilizers to be used in combination with chemical fertilizers.
 - * Non-availability of biofertilizer mix that provides all types of nutrients.
 - * Lack of awareness about Bio-Fertilizers at farmer level, non-availability of Bio-Fertilizers in village level fertilizer shops.

8 What makes Biofactor's Bio-Fertilizers special?

- ✓
 - * Patented microbial strains. (New strains of micro-organisms adapted to our region and adapted to high temperatures)
 - * Manufactured in the patented Bio encapsulation process. Can be mixed with all types of chemical fertilizers.
 - * A mixture of Bio-Fertilizers providing major and micro nutrients.
 - * Accurate bacterial count.
 - * Long-lived fertilizers (up to two years).

Dear farmers The proper use of organic fertilizers, biofertilizers, and chemical fertilizers means.... ushering in sustainable, integrated and scientific agriculture and inviting better days into our lives.





AADHAAR Gold

Soil First choice

Aadhaar Gold introduces a revolutionary group of encapsulated bacteria in granular form, providing a reliable source of essential nutrients including nitrogen, phosphorus and potassium to crop fields. Contains at least 3×10^7 bacteria per gram. Manufactured using state-of-the-art bio-encapsulation technology, a patented method that ensures stability and efficacy.

Advantages:


Nutrient Uptake: Facilitates the absorption of nitrogen from the air, converts phosphorus and potassium in the surrounding soil into forms readily available to plants, promoting vigorous growth. In addition, it provides protection to crops against water stress.

Quality Improvement: Increases quality and yield by 25-30% while reducing investment by 20-25%.

Compatibility: Bio-encapsulation method can be used in combination with other chemical fertilizers. Ensures complete and balanced nutritional supply.




 4 kg per acre.

 Apply at sowing or before sowing of seeds or planting of crops.

 For annual crops, once during the cropping season; Twice for mid season crops; And apply 2 to 3 times a year for perennial crops.

Special Indications: AADHAR GOLD is specially formulated for paddy, cotton, sugarcane and chilli crops. For other crops, use readily available crop-specific Aadhaar Gold formulations.



-  : **Schedule - 3**
(Bio Fertilizers)
-  : **Biofertilizers consortium**
-  : **All crops**



Soil First choice





IINM-Chakra introduces bacterial consortium encapsulated in liquid form, offering a stable source of essential nutrients such as nitrogen, phosphorus, and potassium to our region. This innovative bacterial consortium, existing in liquid form, comprises a minimum of 1.5×10^8 bacteria per millilitre. Developed through advanced technology, this consortium is specially formulated in liquid form for easy application in the field. The liquid formulation is crafted using state-of-the-art methods, ensuring both stability and efficiency.

Benefits:


- * Collects nitrogen from the air, dissolves phosphorus, potash and other nutrients in a neutral state and returns them to the plant.
- * The number of good microorganisms increases and the soil becomes fertile.
- * Increase yields and quality by 25-30% while reducing investments by 20-25%.

 5 Ltr/acre

 should be given by drip irrigation in the first stage (given within 10 - 15 days after sowing gives good results).

 1 time for short term crops during crop period; 2 times should be given for mid term crop; 2 or 3 times a year for perennial crops.

Note: Five days before or after chemical fertilizers should be given through drip irrigation.

 : **Schedule - 3**
(Bio Fertilizers)

 : **Liquid consortium**

 : **All crops**



G-VAM | G-VAM PSF

Polymicrobial Multi Functional Bio-Fertilizer

10Kg & 5Lt


G-VAM, employing its cutting-edge Bio encapsulation technology, presents solid granules and liquid formulations of mycorrhiza, a pivotal microorganism adept at efficiently retrieving essential nutrients, particularly phosphorus, for plant roots. These granules and liquid variants act as a vital conduit for plant sustenance. Within a mere gram or millilitre, a minimum of 10 mycorrhizal spores is encapsulated. Highly effective Bio encapsulation (patented technology) ensures the availability of these mycorrhiza variants in both granular and liquid states.


Benefits:

Nutrient Uptake: Mycorrhiza significantly improves the absorption of phosphorus from the soil through its intricate root network, fostering plant growth even in soils with diminished phosphorus levels.


Mycorrhizal Population: Augments the mycorrhizal population, contributing to enhanced nutrient uptake and overall plant vitality.

Protection against Soil borne Pathogens: Mycorrhiza acts as a shield, safeguarding plants from soil borne diseases and resulting in healthier crops.

 10 kilograms per acre for the granular form or 5 litres per acre for the liquid form.

 **Granular Form:** Apply granules directly to the soil during the final ploughing or when sowing seeds.

Liquid Form: Administer during the initial phase, either at the time of planting or shortly thereafter.

 For short-duration crops, a single application during the cropping season suffices; for long-duration crops, apply 1 to 2 times annually.

Caution: For the granular form, ensure thorough mixing during the seedbed preparation phase. For the liquid form, apply directly to the roots during planting or shortly afterward.

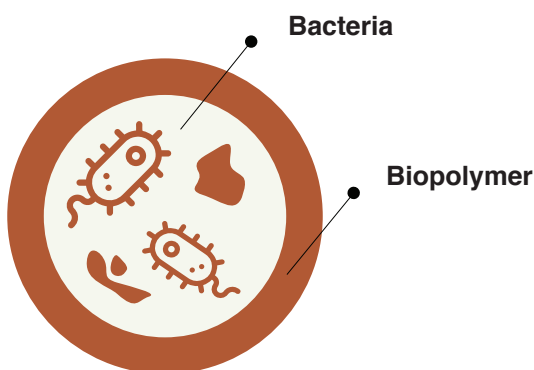


 : **Schedule - 3**
(Bio Fertilizers)

 : **Fungal Biofertilizers**

 : **All crops**

Bioencapsulation - patented technology



Bioencapsulation method

Why is it necessary?

The main problem in the use of bio fertilizers is the lack of suitable Bio fertilizers to be used in combination with chemical fertilizers.

What does that mean?

Microorganisms such as bacteria or fungi have a biopolymer coating.

What is the use?

When farmers apply BioFactor's bio-encapsulated bio fertilizers to the field along with chemical fertilizers, the biopolymer coating dissolves slowly. The reduced concentration of chemical fertilizers does not harm the bacteria or fungi that are the bio fertilizers.






N-FACTOR

Nitrogen Fixing Bacteria

N-Factor refers to free-living or endophytic bacteria that play a key role in stabilizing nitrogen in the environment. In one millilitre of liquid, a minimum of 1×10^8 bacteria is present. These bacteria, through the release of various enzymes into the environment, convert atmospheric nitrogen (N_2) into immediately absorbable forms such as ammonia (NH_3) or nitrate (NO_3^-) for plants.

Benefits:

- * Stabilizes 20 to 40 kilograms of nitrogen per hectare, significantly enhancing nitrogen availability for plants.
 - * Reduces the need for chemical fertilizers by 25-30%.
 - * Stimulates the release of auxins, gibberellic acid, and cytokinins, fostering plant growth.
 - * Improves the moisture absorption capacity of plants from the soil, resulting in a 10-15% increase in crop yield in rain fed areas.
-  1 litre per acre
- *  Initially, apply through seed treatment using a seedling dip method, followed by foliar spray during subsequent growth stages.
 - * In the event of changes in weather conditions, apply 1 litre per acre through foliar spray.
 - *  For short-duration crops, a single application during the crop cycle is recommended.
 - * For mid-duration crops, apply twice.
 - * For long-duration crops, apply 2 to 3 times per crop cycle.





-  : **Schedule - 3**
(Bio Fertilizers)
-  : **Azospirillum**
-  : **All crops**

P-FACTOR




Phosphorus Solubilizing Bacteria


The P-Factor represents liquid living fertilizer, a potent blend of free-living and endophytic bacteria designed to unlock the power of phosphorus in neutral soil conditions. With a concentration of at least 1×10^8 bacteria per millilitre, this solution harnesses the natural abilities of bacteria to solubilize phosphorus. Once applied, these bacteria seamlessly integrate into the soil, a symphony of organic acids and enzymes within the root zone where they unleash this dynamic process works to dissolve previously inaccessible phosphorus, transforming it into a readily available form for plants.

Benefits:

- * Provides a substantial yield of 25-30 kg of phosphorus per hectare, leading to a noteworthy reduction in the reliance on chemical fertilizers by 20-25%.
 - * Stimulates the secretion of specific hormones and bio-chemicals in the root region, fostering enhanced plant growth.
 - * Results in a significant boost in crop yield, with an increase of 15-20%, contributing to sustainable and efficient agricultural practices.
-  1 litre per acre
- *  Initiate the casting process by administering through drip irrigation initially, followed by strategic spraying in subsequent stages, ensuring optimal P-FACTOR incorporation.
 - * Apply 1 litre per acre via spraying during rainy conditions to leverage the endophytic bacterial species, enabling bacterial entry through leaves, tender stems for enhanced plant vitality.



-  : **Schedule - 3**
(Bio Fertilizers)
-  : **Phosphorus solubilizing bacteria**
-  : **All crops**

- *  For short-duration crops, a single application during the crop cycle is recommended.
- * For mid-duration crops, apply twice.
- * For long-duration crops, apply 2 to 3 times per crop cycle.



K FACTOR



Potassium Mobilising Bacteria

K-factor refers to free-living or endophytic bacteria in the rhizosphere, which are responsible for mobilizing potassium in the soil. In one milliliter of fluid, there are at least 1×10^8 bacteria. These bacteria, after entering the soil, release a variety of organic acids and enzymes into the root zone. As a result, they facilitate the assimilation of potassium, making it more available to plants.


Advantages:

- * Improves potassium availability to plants from early stages, promotes strong root development, stem and tuber formation. In addition, it contributes to increase the arrangement of flowers and fruits.
- * Reduces the need for chemical potassium fertilizers by 20-25%.
- * Exhibits antagonistic properties against various plant pathogens, contributes to better disease resistance, improves plant vigor and yield.

 1 liter per acre

-  * Initially, apply by seed treatment using seedling dipping method, followed by foliar spray during growth stages.
- * If changes in weather conditions occur, apply 1 liter per acre by foliar spray.
-  * For short-duration crops, a single application per crop cycle is recommended.
- * For mid season crops, apply twice.
- * For perennial crops, apply 2 to 3 times per crop cycle.



 : **Schedule - 3**
(Bio Fertilizers)

 : **Potassium solubilizing bacteria**

 : **All crops**

Zn-FACTOR

Zinc Solubilising Bacteria




The Zn-FACTOR represents free-living or endophytic bacteria within the rhizosphere that actively participate in the solubilization of zinc in the soil. In one millilitre of liquid, a minimum of 1×10^8 bacteria can be identified. When introduced into the soil, these bacteria release various organic acids and enzymes into the root zone, facilitating the solubilization of zinc and enhancing its availability to plants.

Benefits:

- * Enhances zinc accessibility to plants from the early growth stages, promoting robust root development and improving stem and tuber formation. It also contributes to increased flower and fruit setting.
- * Reduces dependence on chemical zinc fertilizers by 20-25%.
- * Exhibits antagonistic properties against various plant pathogens, thereby enhancing overall disease resistance.
- * Significantly contributes to the total zinc nutrient pool, thereby improving plant vigour and yield.


 1 litre per acre

-  * Initially, apply through seed treatment using a seedling dip method, followed by foliar spray during subsequent growth stages.
- * In case of changes in weather conditions, apply 1 litre per acre through foliar spray.

 : **Schedule - 3**
(Bio Fertilizers)

 : **Zinc solubilizing bacteria**


 : **All crops**

-  * For short-duration crops, a single application during the crop cycle is recommended.
- * For mid-duration crops, apply twice.
- * For long-duration crops, apply 2 to 3 times per crop cycle.

Bioencapsulation



 : Schedule - 3
(Bio Fertilizers)

 : Schedule - 3
(Bio Fertilizers)

 : Schedule - 3
(Bio Fertilizers)

 : Carrier consortium

 : Carrier consortium

 : Potassium solubilizing
bacteria

 : All crops

 : All crops

 : All crops

 : 50 kg/acre

 : 50 kg/acre

 : 50 kg/acre

 : Apply the granules directly to the soil during final tillage or when sowing seeds

 : For short duration crops, one application during the crop rotation is recommended.
Apply twice for mid-season crops.
For long-duration crops, apply 2 to 3 times per crop cycle.

Comment: Uniqueness; It is prepared by bio-encapsulation process so it can be used in combination with other chemical fertilizers

BIO TRIPLE ACTION PROGRAMM: A community of new and locally adapted bacteria that provide nitrogen, phosphorus and potash. These are in the form of pellets. One gram of pellets contains at least 3×10^7 bacteria. Collecting nitrogen from the air, dissolves phosphorus, potash and other nutrients that are in a neutral state in the soil and returns them to the plant. Increases yields and quality by 25-30% while reducing investment by 20-25%.

BIO DOUBLE ACTION PROGRAMM: A group of bacteria that fix nitrogen from the air and bacteria that solubilize neutral phosphorus in the soil. These are in the form of granules. One gram of granules contains at least 3×10^7 bacteria. This bacteria collects nitrogen from the air and gives it to the crops. It enters the soil and secretes some types of organic acids and enzymes in the root area, which dissolves the phosphorus that is not available to the crops and makes it available to the crops. Gives 25 kg of nitrogen and 25 - 30 kg of phosphorus per acre. Reduces use of chemical fertilizers by 20-25%.

Biopotash: A collection of bacterial species that solubilize neutral potash in soil. These are in the form of granules. One gram of granules contains at least 5×10^7 bacteria. These bacteria enter the soil and secrete some types of organic acids and enzymes into the root zone that dissolve potash that is not available to the plants and make it available to the plants. The supply of potash to the plant helps in flower and fruit growth. Thus crop yields increase by 15-20%. Reduces use of chemical fertilizers by 20-25%. The plant helps in boosting immunity.






PROCEED

Biotic & Abiotic Stress Relieve

A Bio-fertilizer is a liquid form of bacterial complex that can help the plants under the stress caused by the weather (Abiotic stress) and biotic factors (Biotic stress) by providing nitrogen, phosphorus, potash and other nutrients required by the plant. One milliliter The solution contains at least 1.5×10^8 bacteria. Specially formulated in liquid form to provide accurate bacterial count using state-of-the-art technology of new strains of bacteria that provide nutrients and protect against environmental and biological stresses.

Advantages:

- * Helps in water stress tolerance in plants, increases water uptake capacity and availability of all types of nutrients.
 - * Facilitates salt ion exclusion in saline soils, thereby reducing salinity stress. Heavy metal toxicity in soil by efficient uptake of nutrients and protection mechanisms reduces.
-  500 ml/acre.
-  Spray at first stage of crop (within 30 days after sowing), when waterlogging is a problem.
-  Use 1 time in first stage of crop and as needed in later stages.

1Ltr



: Schedule - 3
(Bio Fertilizers)



: Liquid bio fertilizer



: All crops

PRITHVI

Controls Sucking Pest


A bio-fertilizer in liquid form is a complex of bacteria with the ability to effectively fight off sap-sucking insects and pests while providing essential nitrogen, phosphorus, potash and other nutrients to the plant. One milliliter The solution contains at least 1.5×10^8 bacteria.


The new bacterial species in this consortium provide nutrients and release certain types of biochemicals. It disrupts the nervous systems of ingesting insects, causing the insects to die.

Advantages:

- * Availability of all types of nutrients, plant roots and vigor are enhanced thereby increasing production and productivity.
- * Increases the ability to effectively fight against sap-sucking insects and pests.
- * A low cost eco-friendly and natural source of nutrients.



 1.5- 2.l/acre (7-10 m.l/liter of water).

 At first stage of pear (within 30 days of sowing).

 1 time in the first stage of crop and as needed.



: Schedule - 3
(Bio Fertilizers)



: Liquid bio fertilizer



: All crops



PROMOTE


Phosphate Rich Organic Manure


An organic fertilizer rich in phosphorus in nano form and containing phosphorus solubilizing bacteria. It contains carbon 8%, phosphorus 8%, nitrogen 0.4% and CN ratio 20:1. It provides phosphorus directly to the plants and also dissolves the phosphorus in the neutral state in the soil and returns it to the plant.

Advantages:

- * Promote contains phosphorus in nano form. So 100% plant utilization.
- * Microorganisms in soil grow through organic matter. Thus the availability of nutrients to the plant increases and the soil becomes healthy.
- * A healthy crop and high quality yields can be obtained at low cost.

 100 kg/acre

 Apply in the last furrow/seed or in the footings made at the time of transplanting.

 1 time for short duration crops during crop season; Apply 2 times for mid term crop. Apply 2 or 3 times a year for perennial crops.



50Kg



Schedule - 4
(Organic fertilizers)



Phosphate-rich organic manure



All crops


SUMCA


Bio enriched Organic Manure


An organic fertilizer containing bacteria that provides nitrogen, phosphorus, potash and zinc. It contains nutrients from organic manure and bacteria that can solubilize nutrients in a neutral state in the soil and provide them to the plants. One gram of granules contains 5.0×10^6 bacteria. Organic carbon is 14%. Nitrogen, Phosphorus and Potash all inclusive shall be not less than three percent.

Advantages:

- * Organic fertilizers and bio-fertilizers can be given to the plant simultaneously.
- * Containing organic carbon helps the growth of microorganisms. Thus the availability of nutrients in neutral condition in the soil is also available to the plants.
- * A healthy crop and high quality yields can be obtained along with reducing investments.

 100 kg/acre

 Apply in the last furrow/seed or in the footings made at the time of transplanting.

 1 time for short duration crops during crop season; Apply 2 times for mid term crop. Apply 2 or 3 times a year for perennial crops.



50Kg



Schedule - 4
(Organic fertilizers)



Bio-enriched organic manure



All crops




BELOM ES


Magic of minerals


Besides major nutrients, secondary and micronutrients are essential for plant growth. A specially formulated organic liquid nutrient mixture to deliver major nutrients (minimum 1.2% nitrogen, phosphorus and potash) and secondary and micronutrients required at all growth stages by spraying.

Advantages:


- * Spraying at the leaf stage promotes strong root system, more branches and healthy foliage growth.
- * Spraying during the budding stage helps in healthy budding (more female flowers) and more pollination.
- * Contributes to more pod formation at the bud stage, less shedding, heavier seeds in pods and higher quality.

 500 - 800 ml/acre (2.5-4.0 mL/liter of water).

 Can be used at all growth stages.

 Once every 10-15 days.



 : **Schedule - 4**
(Organic fertilizers)

 : **Liquid Fermented organic Fertilizer**

 : **All crops**

KINGK


Liquid Potassium (K-18%)




A liquid nutrient mixture that provides organic potassium. It contains 18.0% potash. It also contains calcium, boron and manganese required for the flowering and fruiting stage of crop plants. Formulated using MAMS (Microbe Assisted Microsize Particle) technology. thereby increasing nutrient availability and utilization efficiency.


Advantages:

- * Spraying during the budding stage helps in healthy budding (more female flowers) and more pollination.
- * Spraying at pod stage contributes to more pod formation, more cuttings, less pod drop, heavier kernels in pods and higher quality.
- * Increases resistance to insects and pests. Helps to withstand water stress.

 Spray mode - 500 - 800 ml/acre (2.5-4.0 ml/liter of water). Drip irrigation system - 3 L/acre

 Give the plants by spraying or drip irrigation during flowering stage, pod growth and fruiting stages.

 Spray or drip irrigation - once every 7-10 days.

 : **Schedule - 1**
(Liquid Fertiliser)





 : **Liquid Potash**





 : **All crops**







Belom Series



-  : **Schedule - 4**
(Organic fertilizers)
-  : **Liquid Fermented organic Fertilizer**
-  : **All crops**
-  : **Branch stage**

-  : **Schedule - 4**
(Organic fertilizers)
-  : **Liquid Fermented organic Fertilizer**
-  : **All crops**
-  : **Flowering stage**

-  : **Schedule - 4**
(Organic fertilizers)
-  : **Liquid Fermented organic Fertilizer**
-  : **All crops**
-  : **Fruit stage**

 : **5 / acre (drip irrigation) - 5 / acre(spray method)**

 : **Once every seven to ten days**

All types of nutrients are required by the plant at each growth stage but their dosage varies depending on the growth stage. The Beloom series is a combination of organic liquid nutrients (As per growth stage with specific micronutrients) specially formulated to provide major nutrients (Nitrogen, Phosphorus and Potash at least 1.2%) and secondary(Calcium ,Magnesium,Sulphur) and micro nutrients in required doses for the growth stage of the crop.

Advantages:

- * Fermentation of organic fertilizers using new and effective microorganisms which increases nutrient availability. So plants get nutrients easily (Bioavailability of nutrients).
- * Nutrients use increases it's efficiency and the plant can fully utilize its genetic potential.

Belom S-1: Provides the main nutrients required for the vegetative growth (like nitrogen slightly at high amount, phosphorus and potash at moderate amount if compared in between) and also provides all types of micronutrients required for this stage (Especially for Vegetative growth with specific micronutrients which helps in growing shoots) in appropriate dosage in liquid form which promote strong root system, more branching and healthy foliage growth.

Belom S-2: Providing the main nutrients required for the flowering and bud setting stage (like Phosphorus slightly at high amount ,Nitrogen and potash at moderate amount if compared in between) and also provides all types of micronutrients required for this stage (Especially for Flowering stage with specific micronutrients which helps in flower initiation) in appropriate dosage in liquid form. Promotes healthy flowers (more number of female flowers setting) , more pollination and better bud setting.

Belom S-3: Provides the main nutrients required for the fruit development to ripening stage (like Potash slightly at high amount,Nitrogen and Phosphorus at moderate amount if compared in between) and also provides all types of micronutrients required for this stage (Especially during Fruit development to ripening stage with specific micronutrients which helps during this stage) in appropriate dosage in liquid form. Contributes to more pod formation, no drop of pods, heavier kernels in pods formed,Increases sugar content especially in fruits and automatically gives higher quality.



Poshak Levels



5&15 Ltr



5&15 Ltr






5&15 Ltr






5&15 Ltr




Level - 1

-  : Schedule - 4 (Organic fertilizers)
-  : Liquid Fermented organic Fertilizer
-  : Branchial phase




Level - 2

-  : Schedule - 4 (Organic fertilizers)
-  : Liquid Fermented organic Fertilizer
-  : Flowering stage

Level - 3

-  : Schedule - 4 (Organic fertilizers)
-  : Liquid Fermented organic Fertilizer
-  : Fruit stage

Level - 4

-  : Schedule - 4 (Organic fertilizers)
-  : Liquid Fermented organic Fertilizer
-  : Fruit and harvesting stage

-  : All crops

-  : 2.5-4 / acre (drip irrigation) - 1.5-2 / acre(spray method)

-  : Once every four to seven days

All types of nutrients are required by the plant at each growth stage but their dosage varies depending on the growth stage. This nutrient series (As per growth stage with specific macronutrients) is a mixture of organic liquid nutrients specially formulated to provide secondary and micronutrients and main nutrients in required doses for crop growth. Deficiency symptoms are more pronounced in dark leaves when major nutrients such as nitrogen, phosphorus and potash are deficient.

Advantages:

- * Bioavailability of nutrients to plants.
- * Nutrients use efficiency increases. The plant will yield as much as it is genetically capable of.

Nutrient Level-1: Vegetative stage specific macronutrients (Vegetative stage specific macronutrients) in liquid form, providing all types of major nutrients (nitrogen, phosphorus and potash) required for this stage, providing secondary and micro nutrients. Promotes strong root system, more branches and healthy foliage growth.

Nutrient Level-2: At Flowering stage (specific macronutrients in adequate amounts as per plant growth stage in liquid form) providing secondary nutrients(Calcium,Magnesium,Sulphur) and 8 micronutrients required for the flowering stage. Promotes healthy canopy (more female flowers) and more pods.

Nutrient Level-3: Provides secondary and micro nutrients required for fruit growth stage and provides all types of major nutrients (Nitrogen, Phosphorus and Potash) required for this stage At Fruiting stage requires specific macronutrients in appropriate dosage in liquid form. Contributes to more pod formation, no drop of pods, heavier kernels in pods formed and higher quality.

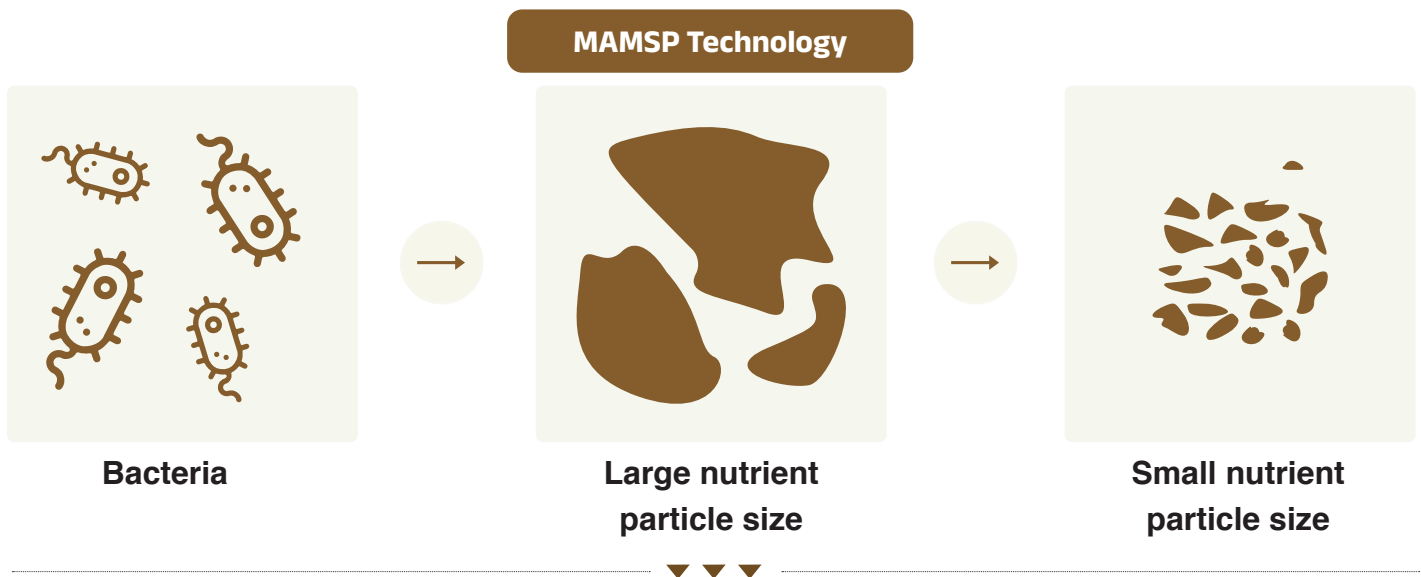
Nutrient Level-4: At Fruiting & Multiple harvests stage specific macronutrients in liquid form providing secondary and micro nutrients which are required for this stage. More cuttings result in less pod drop, heavier kernels are formed in pods and give higher quality. pods, heavier kernels in pods formed and higher quality.



Biofactor's chemical fertilizers

Today the agricultural sector is facing harsher and more unpredictable weather conditions than ever before. Similarly, the soil's nutrient capacity and microbial population are reduced. Although farmers use traditional chemical fertilizers found in the market, the nutrient availability and utilization efficiency of plants has decreased due to the high particle size of these nutrients.

To overcome these problems, Biofactor has developed the Microbe Metabolite Assisted Micron Sized Particles (MAMSP) technology, which uses microbes to microsize the particle size. All the products made using this technology have very small sized of nutrients. Thus the availability and utilization efficiency of nutrients to plants increases. They work with three times higher efficiency compared to regular fertilizers. Therefore the biofactor can get more results using less quantity of their chemical nutrients




High-K


Liquid Potassium (K-25%)

A liquid nutrient mixture that provides potassium. It contains 25% potash as well as calcium, boron and manganese required for flowering and fruiting development. Formulated using MAMS (Microbe Assisted Microsize Particle) technology. Thereby increasing nutrient availability and utilization efficiency. After use of High-K Sugar content in fruits increases and fruit pulp enhances due to which fruit gets more sweetened get more shining and gaining more weight that improves quality of fruit.

Advantages:

- * Spraying during the flowering stage helps in healthy flowers (more female flowers) and more pollination.
- * Spraying at the pod stage contributes to more pod formation, more harvests, less pod drop, more seeds in pods formed and higher quality.
- * Increases resistance to insects and pests. Helps to withstand water stress.

 Spray method 500 - 800 ml/acre (2.5-4.0 ml/liter of water).
Drip irrigation system - 3 lt/acre.

 Give the plants by spraying or drip irrigation during flowering stage, pod growth and fruiting stages.

 Spray or drip irrigation - once every 7-10 days.



 : **Schedule - 1**
(Liquid Fertilizers)

 : **Liquid Potassium**

 : **All crops**



ZNCUM


Chelated Zinc


Liquid nutrient mixture providing zinc nutrient (6.8%). Zinc is in chelate form and forms stable complexes with zinc ions. This chelated zinc does not become neutral when mixed with other elements in the soil. Formulated using MAMSP (Microbe Assisted Microsize Particle) technology.


Deficiency symptoms: Zinc deficiency is more common in tender leaves. The leaves turn yellow and gradually turn brown. Zinc is of great importance in horticultural crops.

Advantages:

- * Helps in photosynthesis, production of enzymes and production of hormones (auxins cytokines) required for crop growth.
- * Formulated by MAMS (Microbe Assisted Microsize Particle) technology. So zinc is readily available to plants even in problem soils and utilization efficiency is increased.
- * Healthy flowers are formed and a high percentage of pollen is produced. High quality yields can be achieved.


 250 ml/acre (1.0-1.5 ml/liter of water)

 It should be given to the plants by spraying as soon as nutrient deficiency is observed. All crops should be sprayed once at the budding stage and once at flowering & fruiting stage.

 As soon as nutritional deficiency is noticed, it should be used twice in 10-15 days.



**250 &
500 m.l**

 : **Schedule - 1**
(Liquid Fertilizers)

 : **Zinc Supplement**

 : **All crops**

CAMBO


Liquid Boron (10%)


Boron (10.0%) is a liquid nutrient mixture that provides the nutrient. Formulated using MAMS (Microbe Assisted Microsize Particle) technology. Boron is of great importance in horticultural crops.


Deficiency Symptoms: Less number of female flowers in vine crops, oozing of milk from pods in papaya and cracking of pods in mango and sapota crops.

Advantages:

- * Plays a major role in the formation of healthy reproductive parts.
- * By spraying during flowering, more female flowers will come and more pollination will occur. Thus higher yields can be achieved.
- * Spraying at the time of fruiting and harvesting can prevent cracks on the fruit, increase the weight of the fruit and achieve high quality.


 250 ml/acre (1.0-1.5 ml/liter of water)

 It should be given to the plants by spraying as soon as nutrient deficiency is observed. All crops should be sprayed once at bud stage and once every 30-45 days during flowering & fruiting.

 As soon as nutritional deficiency is observed, it should be used twice in a period of 20-30 days.



**250 &
500 m.l**

 : **Schedule - 1**
(Micronutrient)

 : **Boron (10%)**

 : **All crops**



FERRON

19% Ferrous Sulphate


Nutrient mixture providing iron nutrient. Formulated using MAMS (Microbe Assisted Microsize Particle) technology.


Deficiency Symptoms: Iron deficiency causes leaves to lose green color and turn white (chlorosis) and plants become stunted.

Advantages:

- * Plays a major role in making leafy greens required for photosynthesis. It helps in making plant food.
- * Iron is an important cofactor in the production of enzymes required for various biological functions in the plant. These enzymes are useful in plants for nitrogen fixation, electron supply, synthesis of DNA and induction of antioxidants.
- * Iron plays a vital role in respiration and transport of nutrients in plants


 1 gm/liter of water

 It should be given to the plants by spraying as soon as nutrient deficiency is noticed. All crops should be sprayed once at the budding stage and once at flowering & fruiting stage.

 As soon as nutritional deficiency is noticed, it should be used twice in 10-15 days.



500 gm

 : **Schedule - 1**
(Micronutrient)

 : **Iron (19.0%)**

 : **All crops**

MAGNIS


Liquid Magnesium(Mg-24%) and Zinc (Zn-10%)


A liquid nutrient mixture that provides magnesium (24%) and Zinc (10%). Formulated using MAMS (Microbe Assisted Microsize Particle) technology.


Deficiency symptoms: When magnesium is deficient, the center of the leaves or the entire leaf turns yellow and the leaves become smaller.

Advantages:

- * Magnesium is an essential component of chlorophyll and plays a major role in photosynthesis.
- * Stimulates enzymes useful in nutrient transport. This helps in supplying nutrients like phosphorus and zinc and iron to the growing parts along with magnesium.
- * Protects plants from waterlogging and pests while increasing nutrient availability and utilization efficiency.

 500 ml/acre (2.5 ml/liter of water)

 Apply to the plants by spraying as soon as nutrient deficiency is noticed. All crops should be sprayed once at budding stage and once every 30-45 days during flowering & fruiting.

 As soon as nutritional deficiency is observed, it should be used twice in 10-15 days.



250 &
500 ml

 : **Schedule - 1**
(Micronutrient)

 : **Magnesium (24%)**

 : **All crops**






TRUMin

Liquid Manganese (26%)

A liquid nutrient mixture that provides manganese (26%). Formulated using MAMS (Microbe Assisted Microsize Particle) technology.




Deficiency symptoms: Leaves turn yellow from the tips (chlorosis) and plants stunted. When the deficiency is high, dark brown spots appear and appear burnt. The leaves dry up and make a cracking sound when hand touched.

Advantages:

- * Manganese plays a major role in stimulating enzymes required for processes like photosynthesis, respiration and nitrogen metabolism in plants.
 - * Manganese is very important in chloroplast and water supply for photosynthesis.
 - * Stimulates the enzymes required to withstand water stress and protects the plant.
-  500 ml/acre (2.5 ml/liter of water)
-  It should be given to the plants by spraying as soon as nutrient deficiency is observed. All crops should be sprayed once at the budding stage and once at flowering & fruiting stage.
-  As soon as nutritional deficiency is noticed, it should be used twice in 10-15 days.



500 ml
& 1Ltr

-  : **Schedule - 1**
(Micronutrient)
-  : **Manganese (26%)**
-  : **All crops**




COPS

24% Copper Sulphate

Nutrient blend enriched with copper (24.0%), formulated using MAMS (Microbe Assisted Micro size Particle) technology.




Deficiency Symptoms: Signs of copper deficiency manifest as chlorosis, causing leaves to yellow from the tips inward. Additionally, leaves exhibit curling and assume various shapes, while the overall growth of plants becomes stunted.

Benefits:

- * Copper holds a pivotal role in the production of enzymes crucial for diverse metabolic processes in plants. These enzymes facilitate electron transport in respiration and ATP production.
 - * Essential for synthesizing proteins containing iron within chloroplasts, vital for photosynthesis. This process enables plants to generate food and sustain metabolic functions.
 - * Acts as a protective shield against pests. Application of copper sulphate through spraying inhibits the growth of fungi that can propagate pests, thereby safeguarding plants.
-  Apply at a rate of 500 gm per acre (2 gm/litre of water).
-  Initiate application promptly upon observing nutrient deficiency. Apply one round of spraying to all crops during the budding stage and another during both budding and seeding stages.
-  For optimal effectiveness, utilize the solution twice within a 10-15 day interval immediately upon detecting signs of nutritional deficiency.



500 gm

-  : **Schedule - 1**
(Chemical Fertilizers)
-  : **Copper Sulphate (24.0%)**
-  : **All crops**



A Novel Product for Viral disease

A liquid nutrient mixture It contains silver along with copper. They are extremely small in size by being formulated using MAMS (Microbe Assisted Microsize Particle) technology. Thus copper and silver are effective in reducing the growth of fungus, virus and bacteria.

These copper and silver (microsized particles) emit toxic ions that penetrate the skin and destroy viruses and bacteria. Besides, they reduce their resistance on plants.

Benefits:

- * Copper plays a major role in the production of enzymes required for various metabolisms in plants. These enzymes help in the transport of electrons in respiration and in the production of ATP.
- * Protects the plant from virus & bacterial diseases. Spraying Bsl4 inhibits the growth of disease-causing fungi and protects plants from them.

1 L/acre (5 ml/L of water)

Spray as soon as the virus or disease is observed.

It should be used twice in 7-10 days.



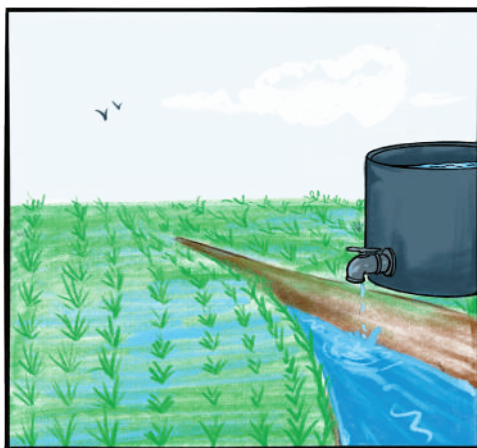
**500 m.l
& 1Ltr**

: **Schedule - 1**
(Beneficial Fertilizers)

: **Liquid Silicone**

: **All crops**

Drop method - providing liquid nutrients



Drop method

What does that mean?

The method of irrigating the field in which the nutrient solutions are dropped by drop near the water pipe or canal is called drop method.

What is the use?

Non-drip farmers cannot apply liquid nutrients through the soil. At such time, the nutrient solution reaches the entire field evenly until the field is watered by providing it in drop mode.




NUTRI6 | Formula 6


A liquid micronutrient blend containing zinc 6%, iron 4%, manganese 3%, boron 2%, copper 1% and molybdenum 0.05%. Formulated using MAMS (Microbe Assisted Microsize Particle) technology.


At present farmers are using complex fertilizers and DAPs more. Micronutrient consumption is very low. This increases the phosphorus content of the soil and prevents the supply of micronutrients from the lower leaves to the upper leaves. Therefore, micronutrient deficiency symptoms are more common in young leaves. (Leaves turn yellow from the tips (chlorosis), plants become smaller & when the deficiency is severe, dark brown spots appear and appear burnt. Leaves dry and make a cracking sound when pinched)

Advantages:

- * Effectively prevent micronutrient deficiencies at all growth stages in all types of crops.
- * Utilization efficiency increases by keeping all types of micronutrients in small forms (MAMS technology) that can be quickly absorbed by the plant.
- * Achieving healthy foliar growth, high coverage, strong fruit set and high quality yields.

 500 ml/acre (2.5 ml/liter of water)

 As soon as the micronutrient deficiency is observed, it should be applied to the plants by spraying. All crops should be sprayed once at the budding stage and once at flowering & fruiting stage. Better results can be obtained by spraying every 15 days in vegetable crops.

 As soon as micronutrient deficiency is observed, it should be used twice in 10-15 days.



**500 m.l
& 1Ltr**

 : Formula -6

 : All crops

Nutriton


Formula 6


A liquid micronutrient blend containing zinc 5%, iron 2%, manganese 2% and boron 0.5%. Formulated using MAMS (Microbe Assisted Microsize Particle) technology.


Micronutrient deficiencies in plants are more likely to occur as farmers do not follow comprehensive nutrition practices. So that the plants get affected by pests like insects or viruses. At such a time, by giving the plant complete micronutrients with high usable capacity in a short period of time, it again increases its strength and fights against pests like viruses. Nutriton is formulated for that..

Advantages:

- * Micronutrient deficiencies can be effectively prevented in all types of crops when infected with virus.
- * Utilization efficiency is increased by keeping all types of micronutrients in small particles (MAMS technology) which can be quickly absorbed by the plant.
- * Providing comprehensive micronutrients can lead to healthy foliar growth, more cover, stronger pods and higher quality yields.

 300 ml/acre (1.5 ml/liter of water)

 As soon as the micronutrient deficiency is observed, it should be applied to the plants by spraying. All crops should be sprayed once at budding stage and once at flowering & fruiting stage. Better results can be obtained by spraying every 15 days in vegetable crops.

 As soon as micronutrient deficiency is observed, it should be used twice in 10-15 days.



300 m.l + 300 m.l

 : Formula - 6

 : All crops

Note: Buy Nutriton Get Virnix Free





FLOWMIN

Specially designed for drip irrigation

 : Schedule - 1 (Chemical Fertilizers)  : Liquid fertilizer  : All crops  : 5 & 15 Ltr

The Flowmin series is a liquid nutrient mixture specially formulated for drip irrigation containing nutrients such as nitrogen, phosphorus and potash as primary nutrients and secondary, micronutrients in appropriate doses. Nutrients are in very small (nano) particles, so they easily reach the root tissues when applied through drip irrigation. So nutrient availability and utilization efficiency increases.

A mixture of liquid nutrients in equal proportions of nitrogen (8%), phosphorus (8%) and potash (8%). So it helps the plant to grow in perfect health. Crop early stage through drip irrigation helps in strong root system, more branches and healthy green growth.

 &  In early stages of crop 2.5 - 4.0 L/acre should be applied as drip once every 4 days. Acts as a significant influencer in sugarcane crop.





08-08-08





11-11-08

A liquid nutrient blend containing Nitrogen (11%), Phosphorus (11%), Potash (8%), Zinc (0.7%) & Boron (0.5-0.7%). Through drip irrigation at the crop vegetative stage helps in producing healthy flowers (mostly female flowers) and more pollination.

 &  Drip irrigation should be given once every 4 days at 2.5 - 4.0 L/acre at the budding stage.

A mixture of liquid nutrients containing nitrogen (6%), phosphorus (0%), potash (18%) and calcium (5%), magnesium (2%) & boron (0.5-0.8%). Through drip irrigation at the seeding and crop fruiting stages contributes to more pod formation, higher yield, less pod drop, heavier seed in pods and higher quality.

 &  2.5 - 4.0 L/acre should be applied as drip irrigation once every 4 days during flowering and fertilization stages.





06-00-18

CANMAG



Liquid nutrient mixture containing nitrogen (10.0%), nitrate nitrogen (8.5%), calcium (15%) & magnesium (2%). Application of canmag by drip irrigation at pod and cutting stages contributes to pod color, seed weight and high quality.

 &  At pod and cutting stages 2.5 - 4.0 L/acre should be applied as drip irrigation once every 4 days.



Sampoorna

Specially designed for foliar Nutrigation

 : Schedule - 1 (Liquid Fertilizer)


 : Liquid fertilizer

 : All crops

 : 1 Ltr

Complete Series of Liquid Nutrient Blends specially formulated for spraying containing nutrients like Nitrogen, Phosphorus and Potash as primary and secondary micronutrients in appropriate doses. Nutrient particles are very small in size, so they easily reach the leaf tissue when applied by spray. So nutrient availability and utilization efficiency increases.

A mixture of liquid nutrients containing nitrogen (8%), phosphorus (8%) and potash (8%) in the soil. So it helps the plant to grow in perfect health. Early stage spraying helps in strong root system, more branches and healthy green growth.



 &  Spray 1.5 - 2.0 L/acre once every 7-10 days in the first stage of crop.



08-08-08





A liquid nutrient blend containing Nitrogen (11%), Phosphorus (11%), Potash (8%), Zinc (0.7%) & Boron (0.5-0.7%). Spraying at the vegetative stage helps to produce a healthy canopy (more female flowers) and more pollination.

 &  Spray 1.5 - 2.0 L/acre once every 7-10 days at the vegetative stage.

11-11-08

A mixture of liquid nutrients containing nitrogen (6%), phosphorus (0%), potash (18%) and calcium (5%), magnesium (2%) & boron (0.5-0.8%). Spraying at flowering and fruiting stage results in more pods, more cuttings, less pod drop, heavier seeds in pods and higher quality.

 &  Spray 1.5 - 2.0 L/acre every 7-10 days during flowering and fruiting stages.





06-00-18

CANMAG



Liquid nutrient mixture containing nitrogen (10.0%), nitrate nitrogen (8.5%), calcium (15%) & magnesium (2%). Application of canmag by drip irrigation at pod and cutting stages contributes to pod color, seed weight and high quality.

 &  At pod and cutting stages 2.5 - 4.0 L/acre should be applied as drip irrigation once every 4 days.




Agriseal


A Novel Product for Stress Management


Agriseal is a specially formulated liquid blend crafted using advanced techniques to alleviate stress in plants. Enriched with vitamin C, amino acids, selenium, silica, and seaweed, this formulation serves as a valuable aid in mitigating various stresses encountered by crops, including climatic stressors like drought, heat, cold, and salinity, as well as biotic stresses.

Advantages:

- * Helps plants cope with a variety of stresses, including climatic stresses such as drought, heat, cold and salinity, and biotic stresses (such as pests and diseases).
- * Actively participates in various metabolic processes in plants including metabolism of carbohydrates and synthesis of nucleic acids and enhances plant growth and resistance to stress.
- * It overcomes the stresses during the most critical flowering stage, pod stage and more harvests during the plant growth stage and provides high quality yields.

 Spray mode: 500 ml/acre (2.5 ml/liter of water).
Drip Irrigation System: 1 L/acre.

 Once during waterlogging and once during flowering, fruiting and heavy harvests.

 250, 500 ml & 1 liter



250, 500 m.l & 1 Ltr

BOC

A Novel Product of Liquid Organic Carbon


BOC - A Revolutionary Bio-Organic Carbon Product


BOC is a specially formulated organic carbon mixture derived from microbial and plant residues. Soil organic carbon is crucial in soil constituents, structure enhancement, and nutrient availability.

Advantages:

- * Targeted Nutrient Provision: Facilitates the delivery of essential nutrients, including nitrogen, phosphorus, and potash, in alignment with the crop's growth stages, ensuring optimal plant nourishment.
- * Enhanced Water Retention: Soil enriched with organic matter exhibits superior water-holding capacity, safeguarding plants during adverse conditions.
- * Microbial Nutrient Processing: Organic carbon serves as a vital nutrient source for soil microorganisms. These microbes, in turn, solubilize nutrients in the soil's neutral state, effectively returning them to the plants.
- * Holistic Crop Wellness: By augmenting both nutrient levels and microbial activity in the soil, this approach fosters robust crop health and substantial yields..

 5 L/acre

 Apply through drip irrigation or through drop method during the initial stages of crop growth.

 Once in short and medium term crops. If it is the same garden crops it should be given once every six months.



5 Ltr



A Novel Product for Soil
borne diseases

A mixture containing biological controls such as *Trichoderma viridae* or *Trichoderma harzianum* or *Pseudomonas fluorescens*. Effective in controlling various soil borne and airborne diseases of agricultural and horticultural crops. For that they are used as biological regulators.

These living fungi or bacteria control the growth of crop damaging fungi by producing certain enzymes and secondary metabolites. These were produced in three types.

Invictus V:

A live fungal mixture containing *Trichoderma viridae*. One gram contains at least (CFU) 2×10^6 fungi and mycelial fragments. Can control root rot (*Rhizoctonia solani*, *Fusarium* & *Pythium*), soil borne diseases (*Scyrosia*, *Phytophthora* & *Verticillium*), damping off and other fungal diseases such as *Alternaria*, *Coletrotricum* and *Cercospora* in agricultural and horticultural crops.

Invictus H:

A live fungal mixture containing *Trichoderma harzianum*. One gram contains at least (CFU) 2×10^6 fungi and mycelial fragments. Can control root rot (*Rhizoctonia solani*, *Fusarium* & *Pythium*), soil borne diseases (*Scyrosia*, *Phytophthora* & *Verticillium*), damping off and other fungal diseases such as *Alternaria*, *Coletrotricum* and *Cercospora* in agricultural and horticultural crops.

Biofactor DFNDR:


A robust mixture enriched with *Pseudomonas fluorescens*, boasting a minimum of 1×10^8 Colony Forming Units (CFU) per gram. This provides comprehensive protection against a spectrum of agricultural challenges. Its prowess extends to combat root rot induced by *Rhizoctonia solani*, *Fusarium*, and *Pythium*, as well as leaf and stalk rot orchestrated by *Agrobacterium* and *Xanthomonas*. Invictus 3 stands vigilant against bacterial leaf spot rot and bacterial dry rot caused by *Xanthomonas* and *Erwinia*. This dynamic mixture also maintains its efficacy in managing soil-borne diseases such as *Scyrosia*, *Phytophthora*, and *Verticillium*. Invictus 3 helps in fortifying crops against diverse bacterial adversaries in both agricultural and horticultural crops.




1 & 10 Kg



1 Kg

 Apply 10 kg of Invictus per acre.

 **For Seed Treatment:** Blend 40 grams of Invictus per kilogram of seed, mixed with 50 millilitres of water. Allow the treated seeds to dry in shade for 30 minutes before sowing.

Before Sowing: Apply a mixture of 50 grams of Invictus, 10 kg of cattle manure, and 1 kg of neem flour before sowing to fortify the soil with beneficial microorganisms, which helps in promoting robust plant growth.

Seedling Plants Treatment: For Seedling plants, make a solution by mixing 100 grams of Invictus in 20 litres of water. Submerge the roots of seedling plants in the solution for 30 minutes before planting.

Main Field Application: Combine 10 kg of Invictus with 200 kg of cattle manure and 20 kg of neem flour. Cover the mixture with a sack and place it in the shade for 15 days. Sprinkle water intermittently during this period. After preparation, apply the concoction in a one-acre field.



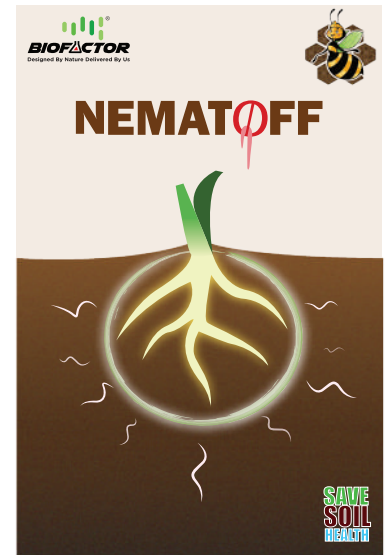
NEMATOFF

A Novel product for Nematode management

Nematoff, an innovative solution for the management of nematodes in agricultural and horticultural crops. Nematoff is a blend infused with live fungi, including *Pochonia chlamydosporia* and *Paecilomyces lilacinus*, strategically formulated to combat soil-borne nematodes with exceptional efficacy.

Positioned at the forefront of biological control methods, Nematoff serves as a pivotal component in nematode management strategies. These fungi act as potent parasitic agents, targeting and eradicating nematode eggs to safeguard the vitality of crops.

Nematoff proves particularly instrumental in addressing nematode challenges prevalent in tomato, chilli, brinjal, lemon, pea, and guava crops. Deploy Nematoff strategically throughout the agricultural landscape to optimize its impact. Nematoff ensures a resilient defense against nematode-related issues, fostering robust and productive agricultural yields.



5 Ltr

👉 5 L/acre

👉 Administer on the crop during the initial phase of drip irrigation or through the drop method. Utilize as required in subsequent stages.

🕒 Apply once in short and medium-term crops. For garden crops, administer once every three months.



ELIXIR/ ELIXIR BOOSTER

Biofactor Cotton Elixir is a specially formulated biofertilizer enriched with essential macro and micronutrients, including nitrogen, phosphorus, and potassium. This balanced blend provides precise nourishment for your cotton plants, ensuring optimal growth and yield.

Promoting Balanced Growth:

- * The essential nutrients in Biofactor Cotton Elixir support vigorous vegetative growth, leading to healthy and productive cotton plants.

Enhancing Stress Tolerance:

- * The biofertilizer helps plants better withstand drought and excessive water conditions, promoting resilience and optimizing yield potential.

Boosting Disease and Pest Resistance:

- * Biofactor Cotton Elixir strengthens the plant's defense mechanisms, making it more resistant to common diseases and sucking pests, ultimately protecting your crop investment.

👉 1L/acre





**native
neem**

A Novel Botanical Insecticide



Azadirachtin is a botanical insecticide with 300 ppm to 10000 ppm. Effective in controlling all types of sap-sucking insects expected in agricultural and horticultural crops such as whitefly, greenfly, caterpillars, lampreys, redflies, aphids and early stages of caterpillars.



Azadirectin disrupts the egg-laying of sap-sucking insects (Anti oviposition), thereby reducing offspring. The bitter smell when sprayed with azadirachtin acts as an anti-repellent to new insects on the crop, and also kills the larvae on the leaves from advancing to their later stages (anti-growth regulation). Azadirectin disrupts the digestive system in worms, causing them to die from ingesting food. Induces sterility in worms, thereby reducing offspring.

Native Neem 300 PPM: Botanical Insecticide with Azadirachtin 1500 ppm.

Native Neem 10000 PPM: Botanical Insecticide with Azadirachtin 10000 ppm.

Note: Native neem is useful in the prevention of whitefly expected in coconut and oil palm. Native neem must be used along with insecticide to prevent the black thrips in chilli.

-  Native Neem 300 PPM - 5 ml/liter of water.
-  Native Neem 10000 PPM - 1 ml/liter of water

 &  At the first stage of the crop, the sap-sucking insects or caterpillars should be sprayed as soon as they are expected. Then spray once every 15-20 days. When the infestation is high, spray the insecticide with native neem 300 PPM or 10000 PPM. This can reduce the urge to re-incubate and increase the re-incubation time.



500 m.l & 1 Ltr

Amount of nutrients taken up by plants per ton of crop production in agricultural crops

Crop	N (kg/ton)	P (kg/ton)	K (kg/ton)	Ca (kg/ton)	Mg (kg/ton)	S (kg/ton)	B (kg/ton)	Fe (kg/ton)	Mn (kg/ton)	Zn (kg/ton)	Cu (kg/ton)
Cotton	80-100	50-75	100-150	10-15	5-10	5-10	0.5-1	0.5-1	0.5-1	0.5-1	0.2-0.5
Maize	150	75	112	20	10	10	1	1	1	1	0.5
Papaya	80-100	50-75	100-150	10-15	5-10	5-10	0.5-1	0.5-1	0.5-1	0.5-1	0.2-0.5
Chili	120	60	90	15	10	10	1	1	1	1	0.5
Sugarcane	150-170	75-100	170-200	20-25	10-15	10-15	1-2	1-2	1-2	1-2	0.5-1
Vegetables	100-120	60-75	120-150	15-20	10-15	10-15	1	1	1	1	0.5
Watermelon	150-170	75-100	170-200	20-25	10-15	10-15	1-2	1-2	1-2	1-2	0.5-1

The nutrients required by a crop depend on the type of crop, growing conditions and other factors. It is always a good idea to consult with a local agronomist or crop advisor to get specific recommendations for your area.



TRIACORE

Tricontanol is a naturally occurring, long-chain aliphatic alcohol found in the waxy coatings of plant leaves, especially in alfalfa. It is recognized as a potent plant growth regulator that can significantly enhance crop productivity and quality by influencing various physiological processes in plants.

Tricontanol influences plant growth by modulating various biochemical and physiological processes, such as:

- * Enhancing photosynthetic efficiency by increasing chlorophyll content.
- * Promoting cell division and elongation.
- * Stimulating enzyme activity related to growth and stress resistance.
- * Increasing the levels of growth hormones such as auxins, gibberellins, and cytokinins.

Benefits of Tricontanol

- * Enhanced Photosynthesis
- * Improved Nutrient Uptake
- * Increased Yield and Quality
- * Stress Tolerance
- * Enhanced Root Development
- * Improved Flowering and Fruit Set
- * Boosted Protein Synthesis



1 Ltr

TRIACORE EC

Tricontanol EC 0.05% is a potent plant growth regulator widely used to enhance crop productivity and quality. This product contains Tricontanol, a naturally occurring plant growth stimulant that promotes various physiological processes in plants.

TRIACORE EW

Tricontanol EW 0.1% is an emulsifiable water-based formulation of tricontanol, a naturally occurring plant growth regulator. This formulation is designed to enhance crop productivity and quality by promoting various physiological processes in plants. Tricontanol EW 0.1% is a highly effective plant growth regulator that can significantly enhance the growth, yield, and quality of various crops. By improving photosynthesis, nutrient uptake, and stress tolerance, tricontanol supports healthy and productive plants.

TRIACORE GR-0.05%

Tricontanol GR 0.05% is a granular formulation of tricontanol, a naturally occurring plant growth regulator. This formulation is designed to provide a controlled and sustained release of tricontanol, enhancing crop productivity and quality by promoting various physiological processes in plants. Tricontanol GR 0.05% comes in granular form, making it easy to apply directly to the soil. Tricontanol GR 0.05% is a highly effective plant growth regulator that can significantly enhance the growth, yield, and quality of various crops.

👉 Traicore EC and EW: 1ml/1lt of water




BIOFACTOR
Designed By Nature Delivered By Us

AGRI BUSINESS SUMMIT AND AWARDS - ABSA 2024



Proud Winner Of **Agri Award 2024**
"Novel Crop Nutrient Company"

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INDIAN ICON AWARDS *Award Winner* **PRIDE**
India Awards

Indian Icon Awards 2024



BIOFACTOR
Designed By Nature Delivered By Us

BIOFAC INPUTS PRIVATE LIMITED

BEST AGRITECH PRODUCTS COMPANY IN INDIA

Presenting this award for your outstanding performance and contribution in this field

Award Ceremony
4th MAY, 2024

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INDIAN ICON AWARDS

CERTIFICATE OF ACHIEVEMENT

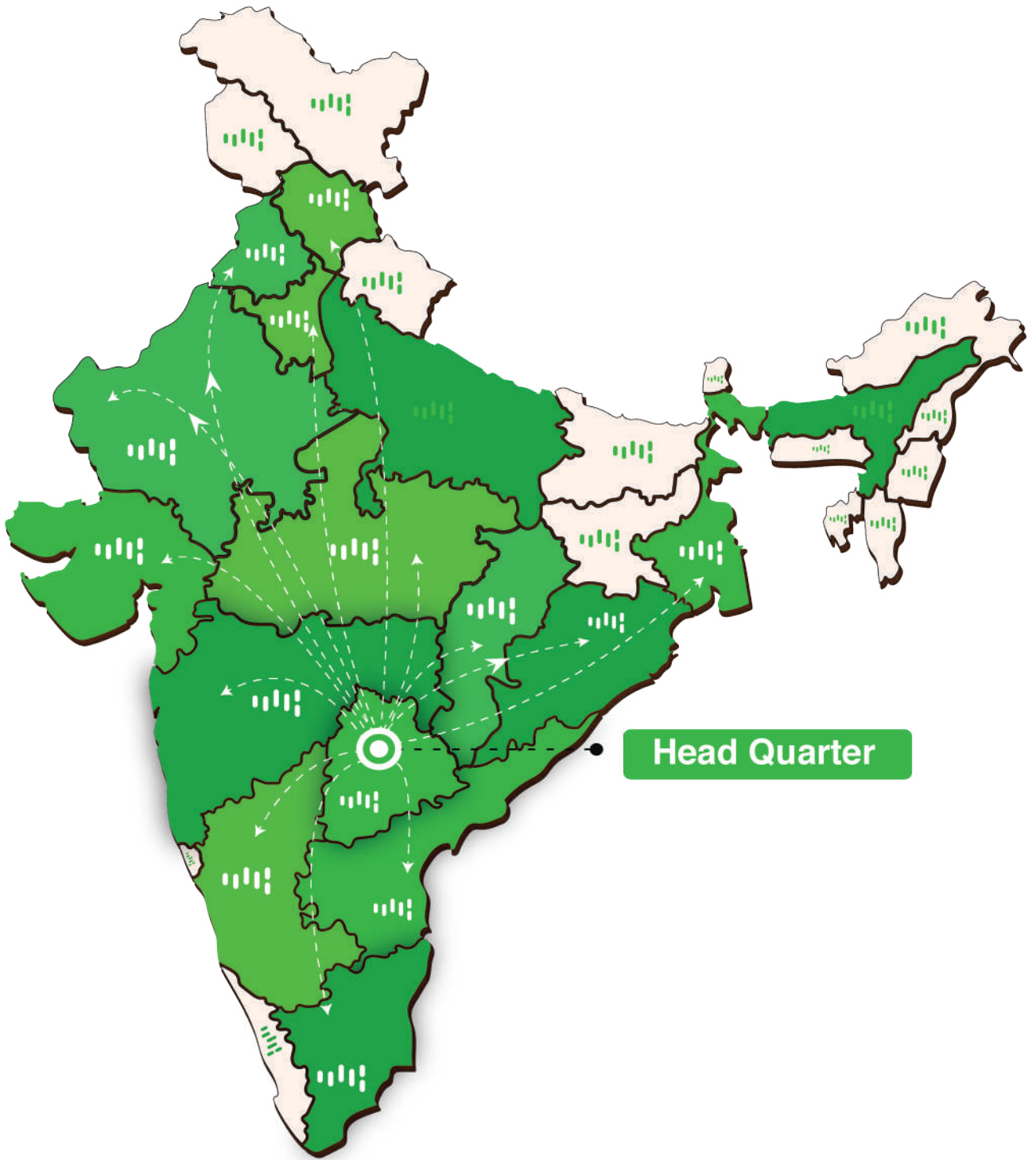
INDIAN ICON AWARDS 2024 IS PROUD TO PRESENT
BIOFAC INPUTS PVT LTD

With this Certificate of Achievement For - **BEST AGRITECH PRODUCTS COMPANY IN INDIA**

CONGRATULATIONS ON THIS WELL-DESERVED RECOGNITION

Hosted at: **SANDEEP VYAS** Event Venue: **THE LALIT** Organized by: **PRIDE**
New Delhi 4th MAY 2024 Founder Pride India Awards





Head Quarter

