

Transforming
**Agriculture
with Next-Gen**
Organic Solutions

Sustainable. Efficient. Future-Ready.

Presentation



**Sowing Innovation
Growing Sustainability**



—► The Organic Farming Revolution
**Bio-Powered Agriculture for
a Sustainable Future**



About

Fabino Biotech Pvt Ltd.

In collaboration with manufacturing partner **SRT Agro** is an ISO 9001:2015 certified company dedicated to advancing sustainable agriculture through innovation and research-based bio-agro solutions.

With over five years of experience in the agro-biotech sector, Fabino Biotech Pvt Ltd. has developed a range of advanced biological products that improve soil fertility, enhance crop yields, & reduce dependence on chemical fertilizers.

Together with **SRT Agro, Fabino Biotech Pvt Ltd.** has introduced its flagship innovation- Bio -Fertilizer Capsules, based on patented Microbial Encapsulation Technology developed by IISR-ICAR (Indian Institute of Spices Research).

This breakthrough represents a transformative step toward sustainable, productive, and climate-resilient agriculture.





Why **Bio-Organic** Fertilizers and Why **NO** to **Chemical** Fertilizers

- Overuse of chemical fertilizers has led to severe soil degradation, nitrogen leaching, soil compaction, reduced soil organic matter, reduced soil microbiome, loss of humus and soil carbon, reduced beneficial organisms, stunted plant growth, and increased green house gas emissions.
- Soil is a non-renewable resource on which 95% of our food supply depends. Industrial farming with excessive chemical fertilizer use is rapidly depleting soil fertility.
- Roughly 95% of our food originates from soil. Incorrect fertilizer application harms soil life. Chemicals can also impact human health due to nitrate and nitrite accumulation in edible crops.
- While synthetic fertilizers may increase yields temporarily, organic farming secures the long-term health of the planet & future generations.

Why Do We Need Organic Farming?



- Organic farming is a type of farming that maintains and improves the natural balance of the environment. In other words, organic fertilizers are used in this agricultural technique. Traditional farming practices include the use of chemical fertilizers, harmful pesticides, and other practices that have a significant negative impact on the ecosystem.
- The goal of organic farming is to create food free of toxins while maintaining soil fertility and promoting ecological balance. This farming method ensures environmentally responsible and long-term economic development.

Farming Issues & Solutions

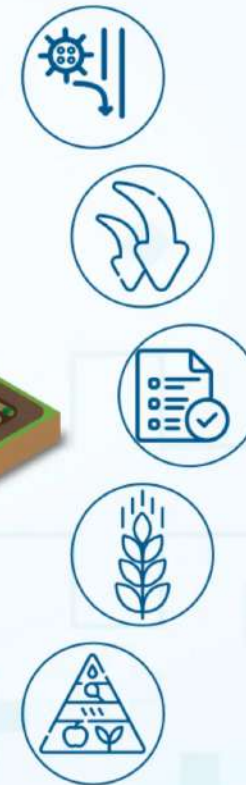
ISSUES BY THE USE OF CONVENTIONAL BIO INPUTS

- **Conventional bio input have less CFU**
- High depletion due to career material
- Less CFU occur
- Low Quality
- Low Nutrients
- Low yield
- Long gestation period
- 2–3 years to meet Organic certification Parameter
- Long gestation period
- Loss to Farmer



SOLUTION WITH ORGANIC FARMING

- **Organic bio input have High CFU**
- Low depletion due to smart pacasing & advanced technology
- High CFU occur
- High Quality
- High Nutrients
- High yield
- Short gestation period
- 1–1.5 years to meet organic certification Parameter
- Short gestation period
- Better income



Issues of Organic Farming

Quality and Availability of
certified Bio Inputs



Bio Capsules



- **Fabino Biotech Pvt Ltd.** with its partner **SRT Agro**, R&D team has developed an innovative technology that directly places **LIVING MICROBES** into the soil, which will improve supply chain management between the **CROP / TREE / PLANT** roots - at all stages, as well as improve the absorption of essential nutrients (from an external source) if they apply. Thus, these products not only remain in the soil forever (multiplying with each application), but also reduce the application of external agricultural products and return the **SOIL** to its **NATURAL STATE**.

*A New Method For The Storage And Delivery
Of Important Agricultural Microbes Through
Biocapsule*



Benefits of **Bio Capsules** for the Government



Reducing the cost of input fertilizers for all farmers



Easy handling and delivery to all regions at a very low price



Up to 10% increase in agricultural production



Soil pH & texture levels will be controlled and benefitted



Improved organic carbon and soil moisture



Reduction in water pollution caused by chemical inputs



Food quality will improve by reducing chemical fertilizers



The percentage of oxygen in the air will increase



Less damage to crops due to untimely rainfall and other seasonal effects



No harmful side effects on animals and lower chemical related health issues



Increasing the conversion of non-agricultural land to agricultural land



Plant strength and resilience will be increased



Environmental Benefits of Bio Capsules



Water pollution
will decrease



Air pollution
will decrease



Soil acidification and soil mineral
depletion can be controlled



Organic farming will help many
animals, birds & insects to survive



Water retention in the soil and strong
plant roots will help reduce soil erosion



The level of oxygen in the air will
increase, carbon dioxide will decrease



Less use of chemicals will help many
kinds of microorganisms to develop
and maintain

Benefits of Bio Capsules For Farmers



Fertilizer costs will be reduced by up to 10%



The volume of production will increase by at least 10%



Earth's overall pH, texture, and organic carbon will increase



No side effects on the human body due to pesticides



Less damage to crops due to untimely rainfall and other seasonal effects



The cost of processing and storing fertilizers will decrease



Soil water retention will increase, so less water will be needed for agriculture





Advantages of Capsules

During Transportation And Handling

- Shipping costs will be saved.
- Farmers can save on handling costs.
- Air transport possible – saving time and money.
- Application is also easy thanks to its light weight and smaller size.
- Small quantities can be ordered online and delivered by courier.
- 1 container of powder/liquid fertilizer corresponds to 5 to 10 carto capsules.
- The capsules are light in weight and smaller in size, making them easy to transport.
- In most countries, farmers do not have a labor force, they have to carry fertilizer from the store to the farm.
- Even the ladies can handle it without any problems and put them on the field



Snow Covered Farming

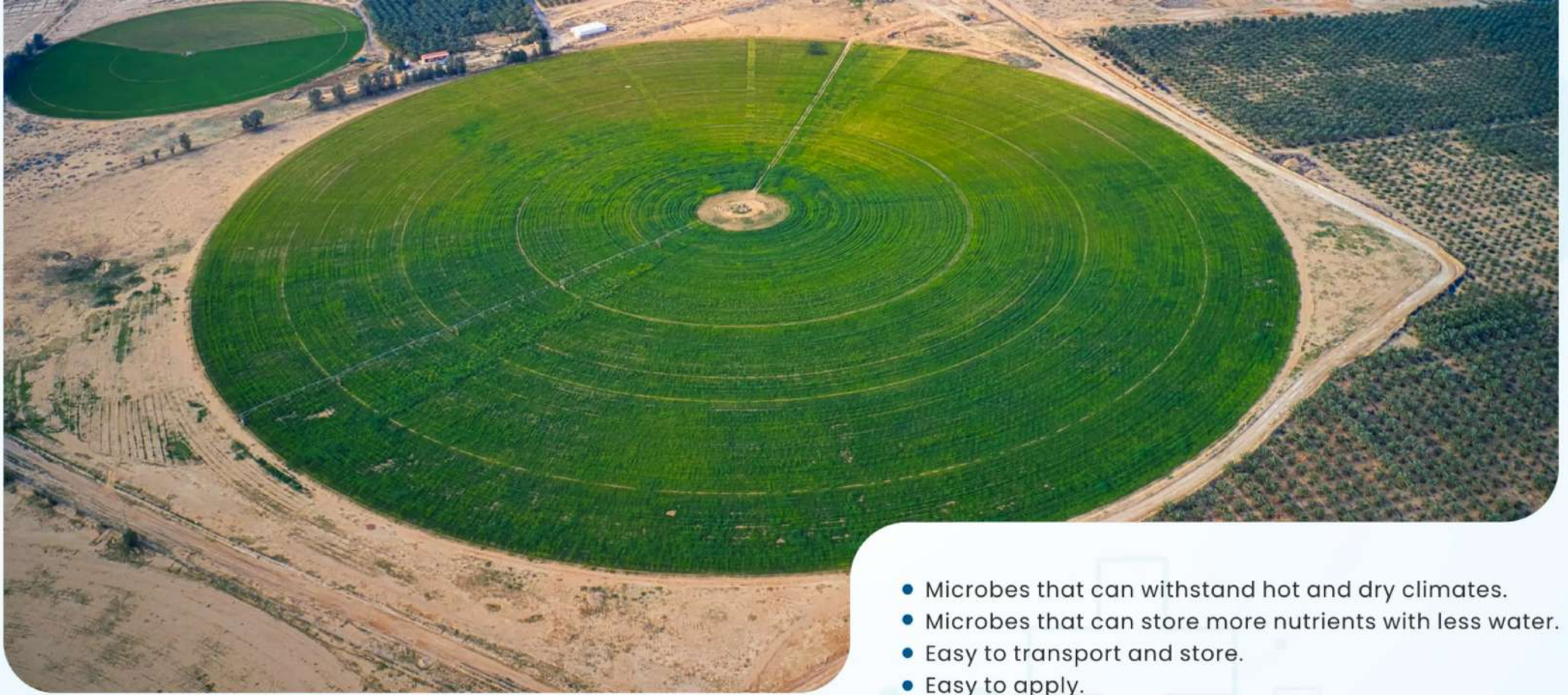
- ✔ Microbes that can withstand cold weather and survive well.
- ✔ Microbes that can store more nutrients for winter top scores.
- ✔ Good shelf life, products can be stored for longer time.
- ✔ Easy to handle and apply on the fields.

- ✔ Easy to carry on small trucks/cars.
- ✔ Environmental friendliness.
- ✔ Easy to transport and store.
- ✔ Reduces packaging loss.

Benefits to Hilly Terrain

- ✔ Easy to store.
- ✔ Environmental friendliness.
- ✔ Reduces packaging loss.
- ✔ Easy to transport on hilly areas.
- ✔ Easy to carry on foot over the hilly areas.
- ✔ Reduced traffic on a narrow hilly road.
- ✔ Application on the fields is also easy, thanks to its light weight and smaller size.
- ✔ The capsules are light in weight and smaller in size, making them easy to transport.





Benefits to Desert Agricultural Land

- Microbes that can withstand hot and dry climates.
- Microbes that can store more nutrients with less water.
- Easy to transport and store.
- Easy to apply.
- Easy to carry on small trucks/cars.
- Increases water retention in the soil.
- Helps the plant survive in harsh environments.
- Turns sand into fertile soil.
- More economical than other alternatives
- Reduces packaging loss

Benefits to Small Islands **Farm / Forest**



- Easy to transport and handle
- Simple application
- Easy to store
- Good shelf life
- Easy to carry on boat/seaplane top
- Scores environmental friendliness
- Reduces packaging loss
- Reduced traffic to outlying islands



Good Solubility In Water

- Can be easily used in drip irrigation systems
- Does not clog the pipeline and taps in the drip irrigation system
- Can also be used with the Drone Sprayer system
- Suitable for Foiler Spray
- Good solubility means less carrier material
- Good solubility means less product loss and better results



Low Storage Cost

- Less space required for storage of goods
- Saving in space cost compared to powder and liquid
- Easy to trace and deliver
- Can be stacked on racks to save more space in store
- In many countries / cities cost of warehouses are very high, capsules save on cost and become's more competitive in market



*More Product in Less Space.
More Profit in Every Move.*



Low Cost of Transportation

- Saving in fuel cost
- Less pollution due to many truck
- Better margins• More saving
- Fast movement of material
- More competitive in market



Bio Conventional V/S Capsules

PARAMETER	CONVENTIONAL		CAPSULE
	POWDER	LIQUID	
CFU Count	5 x 10 ⁷ /gm	1 x 10 ⁸ /ml	1 x 10 ¹² /gm
Shelf Life	6 Months	12 Months	16 - 24 months (max)
Formulation	5 crore (Cells/gm)	10 crore (Cells/ml)	1 Trillion (Cell/gm)
Serving Count / Dosage	5-7 kg (15-20 kg recommended)	2-3 ltrs (8-10 ltr recommended)	1 Capsule
Cost	Higher Cost	Higher Varies	Lower Cost
Depletion	20% monthly	10% monthly	Below 1% monthly
Cost per Trillion Bacteria	3000 - 5000	4000 - 6000	300 - 350
Field Result	Slow	Slow	Fast
Compatibility with Chemical	Low	Low	High
Carrier per Base Material	90%	90%	1%
Storage Cost	High	Very High	Very Low
Holding Cost	High	Very High	Very Low
Transportation Cost	High	Very High	Very Low



Properties of Bio Capsule, Nano Urea & Urea46

PROPERTIES	BIO UREA CAPSULE	NANO UREA	NEEM COATED UREA
How To Apply	Soil Application and Foliar Spray	Foliar Spray	Soil application broadcast
Application Benefits	Long Term Benefits	Single Use, short term Benefits	Short term benefits
Effect on Soil pH	Maintain Soil pH	N/A	Unbalance the Soil pH
Effect on Soil Carbon	Increase Soil Carbon Contains	N/A	Decreases Soil Carbon
Amount of N ₂ Fix in Soil	Supplies 12–15 kg N ₂ / Acre Minimum	No	Provides Ammonium Nitrate subject to quantity applied
Is Urea Needed for Application	Can Replace Urea 100% or can work as Bundling also	Works in Bundling with Urea	N/A
Handling Cost	Low	High	High
Transport Cost	Lowest	Low with compare to Urea	High
Storage Cost	Lowest	Lowest with Compare to Urea	High
Bacteria Count	1 Lac CRORE per gm Minimum	No	No
Is it 100% Organic	YES	No Comment	No
Effect on Plant Systems	Improve the Root and Stem supply system if used regularly	No effect on Root and Steam	N/A
Product Contains	Plants Beneficial Bacteria Organs	Nano Scale Nitrogen Particles	Synthetic Chemicals
Is it Convert Non Available N ₂ in Soil to Available Form	YES	No Such Claim	No
Effect on Immediate Rain	Works on Soil, if the rain occurs within the 2 hrs. of Apply will be increase productivity	Work on leaf, if Rain occur within 2 Hours of Spray will be Washout.	Drains Out
Carrier Base	Powder (Encapsulated)	Liquid More	Prill
Side Effect on Environment	No	No	High
Yield Increase	30–40%	8%	N/A
Farmer's Income + Distributed NPK Ratio	50%	10%	N/A



Easy To Sell
Trade Online / Offline

- Easy to sell online through AMAZON, eBay, Alibaba, etc
- Easy to deliver through small vehicles, even 2 wheelers and back packs
- Distributors / Dealers need not worry for sales team size & delivery Team
- Retailers / Small Farmers do not require to maintain heavy stocks

How To Use Bio – Capsule

STEP - 01



Mix in 1 liter water

STEP - 02



**Leave the mixture
for 5–12 hours.**

STEP - 03



**Shake well till capsule get
well dissolved in water.**

STEP - 04



**Mix this bottle into water
drum or in the soil.**

STEP - 05



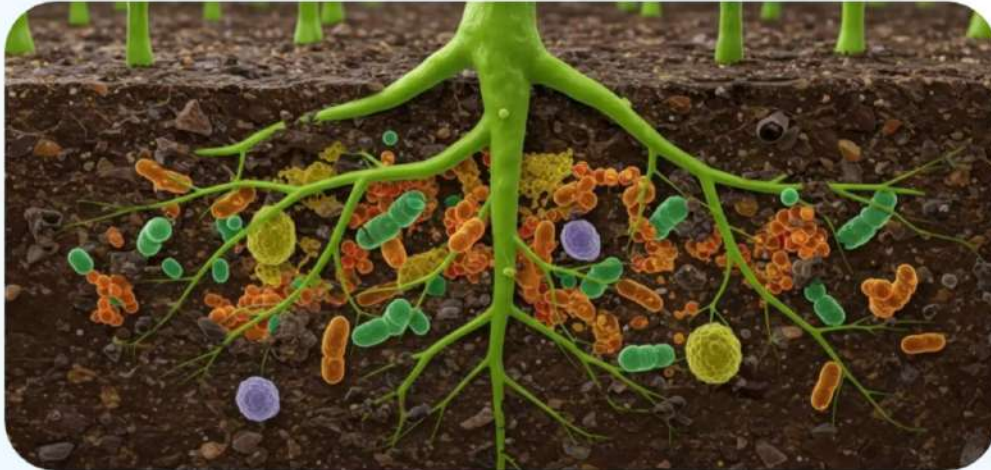
1 CAPSULE = 1 ACRE

Use as per size of garden/field 1 capsule = 1 acre

What is CFU?

In microbiology, a Colony Forming Unit (CFU) is a unit that evaluates the number of microbial cells (bacteria, fungi, viruses, etc.) in a sample that are viable, capable of reproducing by binary fission under controlled conditions. Changes in soil microbial populations resulting from exposure to changes in the environment, interactions with plants and other micro-organisms contribute to soil biodiversity and therefore can affect

Plant productivity. So the higher the number of CFU, the higher the productivity and fertility of the soil.



Benefits of More CFU



1 Capsule = 1×10^{12} CFU/gm

- Low input cost
- Better soil moisture
- High quality product
- Increase soil fertility
- Increase crop production / yield
- Increase soil nutrients
- Fast germinations product
- Rapid increase in available NPK in soil
- Rapid increase in organic carbon

High Counter CFU

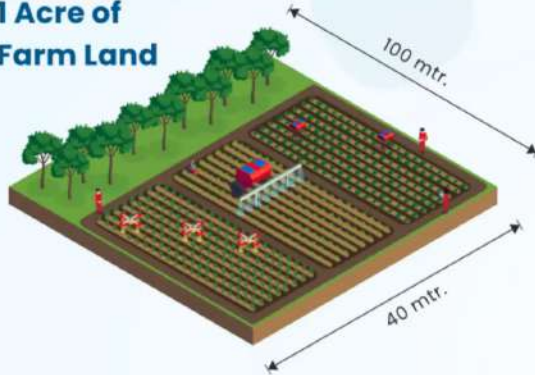
Benefits of Bacteria

- ✔ The number of bacteria per square foot of farmland determines the quality of the soil. Bacteria will be better soil condition
- ✔ More bacteria will help the plant absorb more nutrients from the soil, which will speed up the process of photosynthesis in the plant.
- ✔ More natural nutrients will help plants withstand adverse climatic conditions, drought, heavy rainfalls, winds, etc.
- ✔ These bacteria form colonies near plant root rhizobia, which help plants resist soil-borne diseases, fungal infections, etc.
- ✔ The bacteria also help retain water in the soil for longer periods of time, which helps plants survive without water for longer periods of time. Helping farmers save water



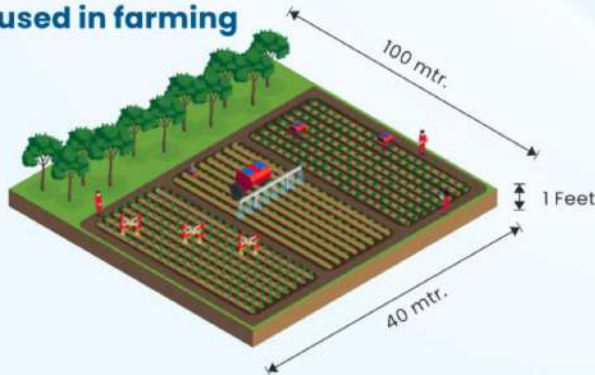
Why 1 Trillion Per Acre?

1 Acre of
Farm Land



$$100\text{mtr.} \times 40\text{mtr.} = 4000 \text{ M}^2$$

1 Acre Farm Land
used in farming



1 Acre of Farming land have

- ✓ 4000 Cubic meter of land space
- ✓ 4×10^{12} Cubic millimeter of land space



$$100 \times 40 \times 1 = 4000 \text{ M}^3$$
$$= 4 \times 10^3 \text{ M}^3$$

$$= 4 \times 10^{12} \text{ Mm}^3 \text{ (Approx)}$$

$$1 \text{ Capsule} = 1 \times 10^{12} \text{ CFU}$$
$$1 \text{ Capsule each of N P K Z}$$

$$4 \times 1 \times 10^{12} = 4 \times 10^{12} \text{ CFU}$$

$$1 \text{ mm}^3 = 1 \text{ CFU}$$

Means, Each Cubic mm of soil must have at least 1 CFU for Fast Result



Next Revolution Comparison

Chemical Fertilizers V/S Bio Capsule (Azoss / Azoto)

FARMING REVOLUTIONIZED



25 kg  =  = **1 gm**
1 BIO CAPSULE

The amount of nitrogen in 25 kg urea can be provided by 1 Bio capsule in soil.

150 kg  =  = **35 gm/Package**
6 BIO CAPSULE

The amount of nitrogen in 150 kg of urea can be provided by 6 bio capsules in soil.

15 Ton  =  = **600 Capsules**
4 kg / carton

The amount of nitrogen in 15 tons of urea can provide as much nitrogen as
4 kg / carton bio capsule.



Field Evaluation Data Tea Estate

BIO-FERTILIZER
TRIAL
SUCCESS:



After

Before

Wheat Farm Analysis

Wheat Farm



TRIAL FIELD

After



NON TRIAL
FIELD

Before

Rice Farm Analysis

Rice Farm

After

TRIAL FIELD

NON TRIAL
FIELD

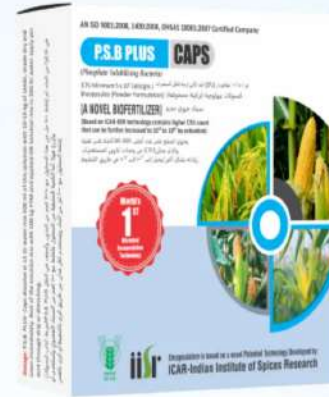
Before

Range of Bio Fertilizer Products

- Our comprehensive range of bio fertilizer capsules supports sustainable agriculture while delivering essential nutrients to crops. Each capsule contains concentrated beneficial microbes that improve soil health and enhance plant growth, ensuring balanced nutrition for all crops throughout their lifecycle.



POTASH GROW CAPS



P.S.B PLUS CAPS



ACETO CAPS



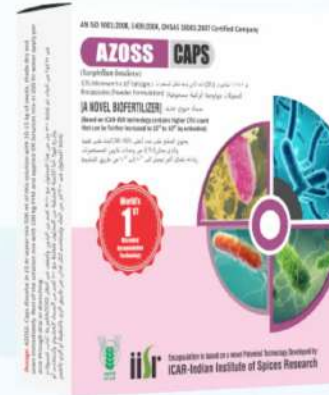
NPK GROW CAPS



ZINC GROW CAPS



RHIZO CAPS



AZOSS CAPS



AZOTO CAPS

Benefits of the Poornima Cycle Kit



- POORNIMA CYCLE KIT is a Bio enzymes kit to enrich the soil with essential microbes to provide macro nutrients like Nitrogen, Phosphorus, Potash, Zinc to plant on regular basis. As the no of microbes will increase in the soil the health and nutrients availability will increase.

WHY FULL MOON CYCLE

After the full moon, the moonlight decreases, putting energy into the plant roots. At this time, the above-ground leaf growth slows down. So this becomes a favourable time to plant your root crops and bulbs, because of the active root growth.

PER ACRE REQUIRED

1 KIT IS SUFFICIENT FOR 1 ACRE

WHEN TO BE USED

3 days before Poornima (Full Moon) every Month TILL HARVESTING

PACKING CONTENT

AZOTO / AZOS = 2 CAPSULE PACKETPS

HUMI GROW 500 ML X 1 BOTTLE

B PLUS = 2 CAPSULE PACKET

CROP FORCE 500 ML X 1 BOTTLE

POTASH GROW = 2 CAPSULE PACKET

MYCORRHIZA = 100 GM PACKET

ZINC GROW = 2 CAPSULE PACKET

How to Use

Activate all capsules in different bottles of 1 ltr x 4 bottles required
Leave the mixture for 6 to 12 hrs and shake well before using.
Mix all 4 Capsule bottles along with 2 humi grow & crop force bottle content in 200 litre of water and drip it to farm or mix this 6 bottles in FYM 50 kg compost and spread evenly on field and drain the land

Benefits of Poornima Cycle Kit

Easy to understand & apply for 1 acre of land
Highly effective and essential for all plant types as it increases soil fertility
The best time for microbes to survive & provide energy to plants is during Poornima (Full Moon)

5 Layer Safety Packaging = better shelf life up to 2 Years



- Highly concentrated culture formulation with 1 trillion CFU per gram



- Gelatin based capsule shells for better insulation and safety from external conditions



- Seal packed blister packing to make it waterproof, and safe from external conditions



- Small cardboard box with lamination packing to save from temperature changes, moisture, & other external conditions



- 2nd layer of cardboard box packing for proper storage, safety, and mishandling



- Top layer of cardboard box for proper handling, safety from moisture, proper stacking, etc.

Advantages Of Bio Capsule To Distributors / Dealers / Retailers

- Huge Scope being Patented Technology. Good Margins, less wastage, easy to manage. Handling and storing of capsules is very low compared to chemical and other bio fertilizers like liquid based or powder based. Bright Future as Bio / Organic is the future of farming, use of chemicals is declining day by day and most governments are now encouraging farmers to organic farming.
- Innovative distribution network through Franchising, a proven technique for assured sales network, Fabino Biotech Pvt Ltd. will help your team in developing system for your country.
- 1 or 2 distributors, subject to geographical strategy, we can also support Private labeling.
- Support for Online sale, Government sale, Bulk Sales etc.





International Distributor Norms

- Distributor Agreement must have/apply all required licenses
- Agreement for 2 years, can be extended depending on performance
- Investment capacity should be strong, then at least 1 month inventory capacity
- Preference is given to distributors with experience
- Brand registration in all interested government departments
- Interaction on tenders with various departments.
- Development and maintenance of the franchise network in accordance with the regulations
- Online sales management team will be retained
- Corporate Account Managers for large farmers to be appointed
- Societies and various farmers' organizations should be contacted for field trials
- Agricultural advisors/influencers need to be contacted and informed about the brand
- Payment terms – 100% prepayment or 30% prepayment, letter of credit at sight (CD to be provided by the company)



CERTIFICATION

Product Certification



Company Certification



Membership Certification



Factory Configuration

- 5 acres of factory area
- 100 acres of trial field
- Over 1,00,000 square feet of indoor hangar and Godown space
- Fully operational and advanced research laboratory
- Farmer's gym for 50 people
- Office building – 5000 square feet with conference room
- Raw material processing and storage area 50,000 square feet
- 250+ Gir Cow with barn
- Over 1,00,000 capsules per day
- Over 50,000 square feet manufacturing and processing unit





FABINO
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Sowing Innovation - Growing Sustainability

Get inTouch

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