

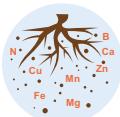


HANDBOOK *for* PLANT NUTRITION

www.indogulfcropsciences.com



Integrated Nutrient
Management



Soil Health



Time Management



International Business



INDOGULF
CROPSCIENCES LTD.



INDOGULF
CROPSCIENCES LTD.

**Focused on Hi-Tech Fertilizer
Devoted to Agricultural Service
Specializing in Technical Innovation**



VISION

To become the worlds leading expert in plant nutrition and a provider of crop solutions.

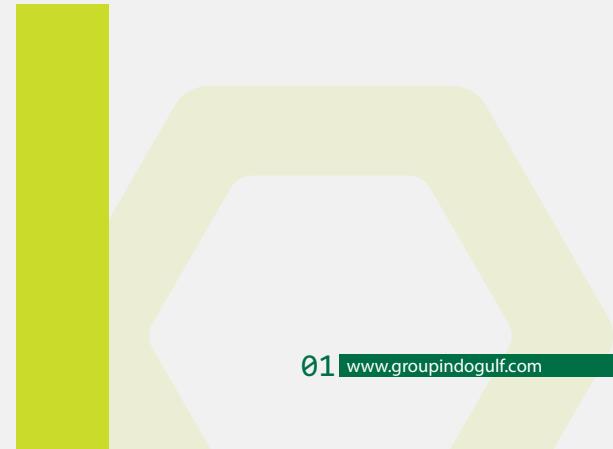


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COMPANY





1 Unit-I Samba (J&K), INDIA



2 Unit-II Nathupur Distt. Sonepat, Haryana, INDIA



3 Unit-III Nathupur Distt. Sonepat, Haryana, INDIA



4 Unit-IV Technical Plant, Haryana, INDIA



5 Unit-V Nathupur Ware House, INDIA



6 Unit-VI Badvasni, INDIA



7 Unit-VII Max Indo Pvt. Ltd., Nathupur, Haryana, INDIA

Solutions for Growth & Security

Indogulf Cropsciences Ltd (formerly Jai Shree Rasayan Udyog Ltd) is a leading manufacturer and exporter of Agrochemicals including Crop Nutrients, Crop protection, Technicals, Formulations and other pesticide products in India. ICL operates in the field of plant nutrition since 1993 playing the leading role in Indian market.

Today we have 7 state-of-the-art manufacturing facilities that include formulation plants, technical plants and bottling plants in India. Each unit operates under the strictest international quality standards and has been certified under ISO 9001 for Quality Assurance and ISO 14001 for Environment Pollution Control Norms. As a recognition of its enduring efforts and sound operations in exports, we are a Government of India Recognized "A" Star Export House. We have been awarded with 1st Prize in MSME awards for the highest quality of micronutrient fertilizers, by the Hon'ble Prime Minister, Shri Narendra Modi.

Always looking for innovation, we offer a full range of fertilizers and nutritional specialities appreciated for their efficacy improving the qualitative and quantitative crop yields following the principles of sustainable development.

The company is committed for providing best solutions to our customers need through specialized sales team, strong network and qualified technical expert.

RESEARCH

Research & Development

Our team is continuously working with more than 100 development field staff supervised by highly qualified and experienced research scientists focussing on bio-efficacy and toxicology studies, chemistry for development of new formulation, formulation types, packaging methods. Our R&D wing interacts closely with the Central Agricultural Research and Teaching Institutes like ICAR, IARI, CRRI, CPRA, TRAI, IPFT etc. as well as State Agricultural Universities like HAU, PAU & International bodies like Lentiz Educational Group, Holland etc and work in closed coordination with them for the generation of scientific data, evolution of new molecules by organizing scientific trials.

Focus Area for R&D

- Technology tie-ups for manufacturing of technical in India.
- Cooperation for Intermediates and other raw materials.
- Research & Development tie-up in India.
- New molecules development with least / No residue.
- Eco friendly products with higher efficacy as per Indian & Global environment.
- Lab, pilot and farm level research.
- Full fledged R&D lab certified by NABL
- Team of highly qualified chemists & scientists.
- Latest equipments- HPLC, GLC, AAS etc.





ASSOCIATIONS

A Guideline for Company Choices

Indogulf Cropsciences Ltd. put its attention and its sensitivity to the environmental issues starting from the design and manufacturing process of the products.



Certificate No. : T-4386
NABL

The quality certification from National Accreditation Board for Testing and Calibration Laboratories (NABL) identifies ICL committed to operate in respect to the quality of fertilizer production and in the company management.



It ensures the compliance of our products eligible for use in organic farming.



The OMRI Listed® Seal assures that our products are suitable for certified organic production, handling, and processing.



The company has created a range of fertilizers, allowed for organic farming in accordance with IMO India.



The Indian Agricultural Research Institute (IARI) is the country's premier national Institute for agricultural research, education and extension which certifies agronomic evaluation of different doses of plant nutrient supplements for productivity and nutrient use efficiency of major cropping system.



ICL has certified its Quality Management System(QMS) in accordance with the ISO 9001:2008.

Memberships





Government of India

Shri Narendra Modi

Hon'ble Prime Minister
will present

NATIONAL AWARDS to MSM

Launched
NATION
ZERO DEFEC

CHA

on Tuesday, 18
at Panjab Agricultural University



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Shri Narendra Modi
Hon'ble Prime Minister

AWARDS

National & International Level Honors

- 1st Prize National Awards by MSME, Government of India for Micro Nutrients' for Plants in 2013.
- We have been recognized A star Export House by Ministry of Commerce & Industry, Government of India.
- "Shorya Samman" By India News in 2018.
- Various products like BioGold, Picaso Gold, and Mc tech Gold has been certified by ECOCERT.
- ICL has received CAC Overseas Market Expansion award for the third consecutive time in the last 3 years (2017,2018 and 2019).
- Indogulf awarded by CAC Organizing Committee for CAC RECOMMENDED SUPPLIER 2020
- Best Display Awards during Agri Leadership Summit 2019 at Gurugram, Haryana.
- Appreciation Momento from Abu Dhabi
- "Udyog Shiromani Awards" by National Institute of Economic Development.
- Appreciation certificates from CII and MoFPI, Government of India during "The Premier Agri & Food Technology Fair in February 2018.
- Excellence Corporate Branding Awards received from ITM Institution in 2020.
- ICL has received Dare to Dream Award from Zee Business as a Leading Corporate Entity.





GLOBALITY



Present Worldwide : Sustaining the Development of Superior Farming Practice

The Company caters to its distribution network that covers the domestic market and export to Asia, Africa, Latin America and Middle East.

Recently ICL has established its Australian Subsidiary as “Indogulf Cropsciences Australia Pty. Ltd.” to undertake agrochemical business in Australia in order to achieve strategic position, improve competitiveness and stimulate business growth. This is the second overseas subsidiary of ICL India after Indogulf Cropsciences USA Crop in Orlando USA. Over the Last 3 decades, the company has been constantly supplying high quality and environment friendly products and providing excellent services to help farmers across the globe to increase the crop productivity. With access to latest technology, highly trained and talented team, we have become an integrated agrochemical company with R&D, Production and Export.

“Grow Together” approach with FnF (Fare and Fast) delivery is the ICL Philosophy and Mantra of Success. We are customizing our solutions as per the market feedback and industry standards. Our two way communication strategy with our business partners associated around the world is establishing the new milestone in business. Regular meetings and interaction with business partners are essential to keep eye on current market dynamics that will create profitable path for mutual growth.

ICL is committed to bring world class technology for farmers, so that they get benefited and contribute to the growth of their country. Goal of sustainable agriculture can be achieved only if the farmers adopt new technology in farm. ICL is regularly supporting this noble cause by conducting various technology transfer initiatives among farmers.



STRENGTH

We Deliver What We Commit

-
- 01 Manufacturing Strength
 - 02 Research & Development
 - 03 Formulation Technologies
 - 04 Product Development
 - 05 Packaging
 - 06 Branding
 - 07 Quality Assurance
 - 08 Marketing Network – Domestic
 - 09 Marketing Network – International
 - 10 Intellectual Property Rights
 - 11 Product Registration & Regulatory Affairs
 - 12 Training & Development



INNOVATIVES

Game Changer Products of Indogulf Cropsciences Ltd.



PICASO GOLD



PICASO POWER



ROOT-O-MAX ULTRA



EMPIRE



INDO BREEZA



ANKUR GOLD



INDO BIOGOLD

PICASO GOLD

Product Description

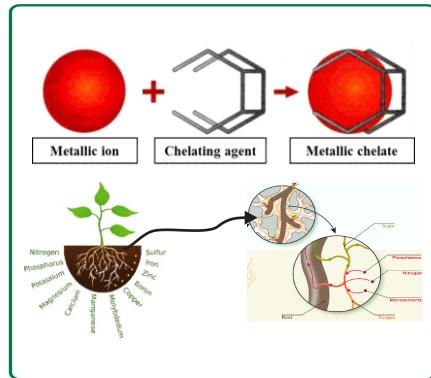
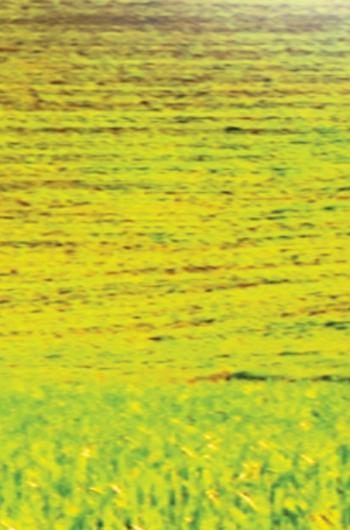
PICASO GOLD is highly concentrated green colour transparent liquid suspension with an analysis of essential micronutrients in chelated form. It dissolves speedily and completely in water.





Product Features & Benefits

- PICASO GOLD may be use when crops suffer from abiotic stress conditions like severe cold/heavy rain/drought etc.
- PICASO GOLD improves the nutritional status of the crop and increases root and shoot development.
- PICASO GOLD provides essential micronutrients together in optimum dose to crops.
- PICASO GOLD helps to prevent deficiencies occurred in crops at different growth stages.
- PICASO GOLD is chelated with EDTA and thus assures fast absorption of all individual micro elements in to plants.
- PICASO GOLD is virtually free from chloride, sodium and other harmful elements for plants.



MICRONUTRIENTS MIXTURE

Direction of Use

Foliar Spray: Apply 500-625 ml/ha/application during critical stages like vegetative growth, flowering and fruit set. Use at least 500 L of water/ha to ensure complete foliage coverage. It is compatible with all kinds of fertilizers, weedicides, fungicides, insecticides and plant growth regulators.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Specifications

Appearance: Green color transparent liquid

pH (1% Aqueous) : 3.00-5.00

Solubility: 100% soluble

Contents

Iron (as Fe), Zinc (as Zn), Manganese (As Mn), Copper (as Cu)

*For detailed composition write to us at info@groupindogulf.com



Pack Sizes

100 ml | 250 ml | 500 ml | 1 Litre

PICASO POWER

Product Description

PICASO POWER is having micronutrients being chelated with Amino acid, it is also considered as Amino acid chelates which are especially suitable for greenhouse and hydroponics systems because they are usually certified organic, readily available for uptake by plants through roots and foliage both. Product supports and improves the uptake of micronutrient fertilizers (Fe, Zn, Mn, Mg, Co and B) due to the activity of amino acid as a natural chelator.





Product Features & Benefits

- PICASO POWER increase crop yield and quality
- PICASO POWER supports plant to resist against stress conditions.
- PICASO POWER is soluble organic micronutrient chelator and source for fertigation and hydroponic watering systems
- PICASO POWER decrease the incidence of certain plant diseases.
- PICASO POWER supports the plant with essential amino acids and peptides.
- PICASO POWER is auto dissolved pouch which is easy to use for farmers.

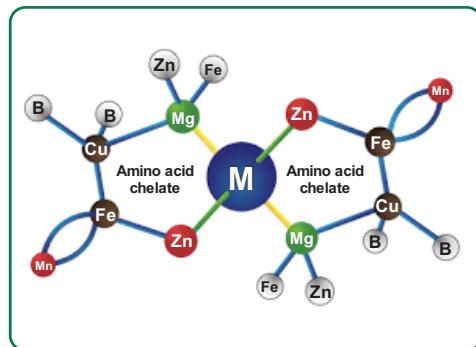
Direction of Use

Apply during vegetative and flowering stage in all the crops for better root growth and flowering.

Foliar Spray: Use 375-500 gm/ha/application

Product is compatible with a wide variety of pesticides and liquid fertilizers, as chelates do not react with their components.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



MICRONUTRIENTS MIXTURE



Specifications

Appearance: Off white to light green color
crystalline powder

pH (1% Aqueous): 5.5-8.5

Solubility: 100% soluble

Contents

Iron (as Fe), Zinc (as Zn), Manganese (As Mn)
Magnesium (as Mg), Copper (as Cu), Boron (As B),
Amino Acid

*For detailed composition write to us at info@groupindogulf.com



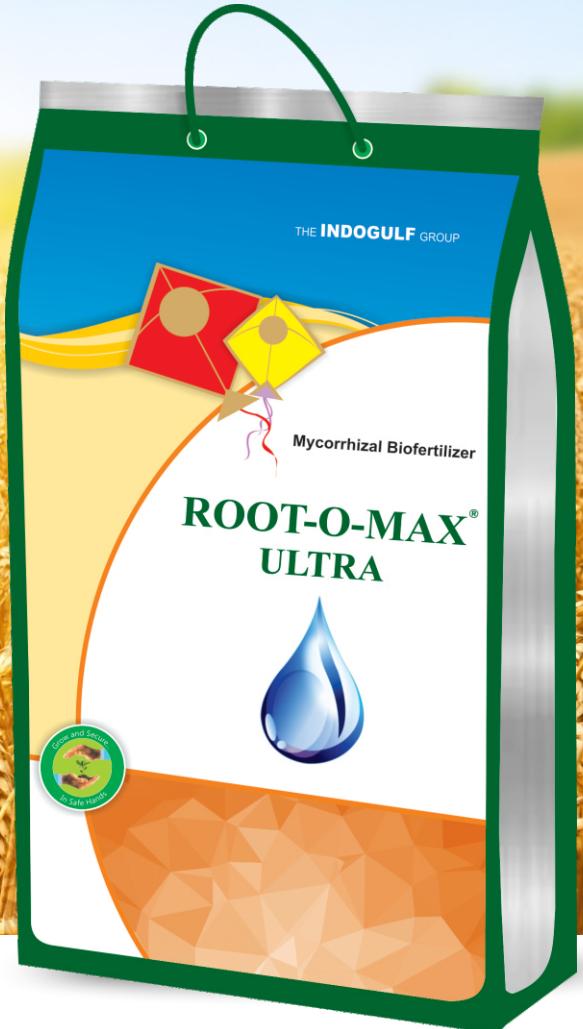
Pack Sizes

4 water soluble pouches of 30 gm each in 120 gm packet | 500 gm jar

ROOT-O-MAX ULTRA

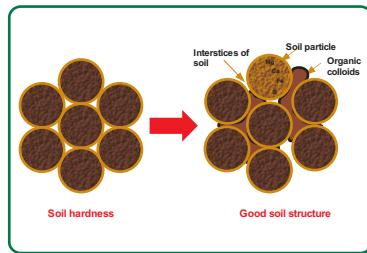
Product Description

ROOT-O-MAX ULTRA is a powerful Mix of Mychoriza and Seaweed Extracts in a wonderful formulation.



Product Features & Benefits

- ROOT-O-MAX ULTRA is synergy of Seaweed extract, Mycorrhiza and other ingredients.
- ROOT-O-MAX ULTRA get active as soon as applied in the plant, thus giving an early boost to the crop. Mycorrhiza takes 15-20 days to establish itself and then the benefits start.
- ROOT-O-MAX ULTRA enhances the Fertilizer Use efficiency and helps in cost saving especially against phosphorous fertilizer.
- ROOT-O-MAX ULTRA improves soil conditioning and pH control.
- ROOT-O-MAX ULTRA is recognized as a Biofertilizer in India.



Direction of Use

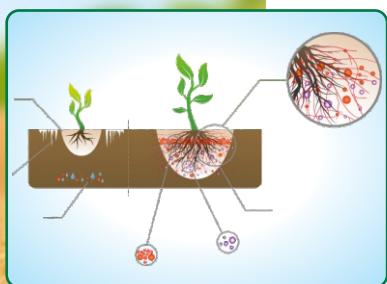
Apply at the beginning of the crop cycle during soil bed preparation and for soil health treatment to promote the availability of soil nutrients and to help with the start of the crop. Successive applications at the beginning of the cycle will help in increasing the plant vigour and allow a better recovery for the plants.

Crops recommended: Paddy, Sugarcane, Wheat, Oil seed crops & Pulses, Onion, Potato, Grapes, Chilli, Soybean, Apple, Citrus, Plantation crops.

Soil application: Use 8.75-11.25 kg/ha as total dose (according to crop and deficiency degree). Use 50-60 gm/pit for fruit crops as total dose (according to crop and deficiency degree).

Bio fertilizer is not a chemical fertilizer hence do not mix inoculated seeds or inoculants with agrochemicals.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Specifications

Appearance: Yellow to black color granules

pH (5% Aqueous): 5.00-8.00

Bulk Density: 1.00-1.12 g/ml

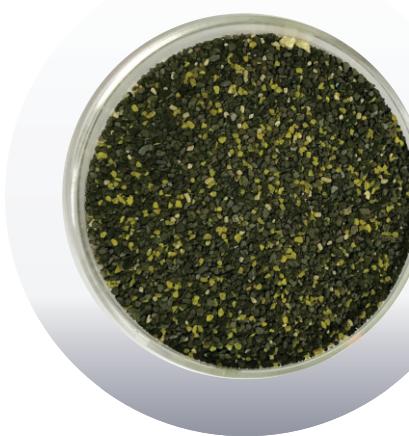
Contents

Seaweed extracts, Mycorrhizal propagules, humic acid, Amino acid

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

3.5 Kg | 7 Kg



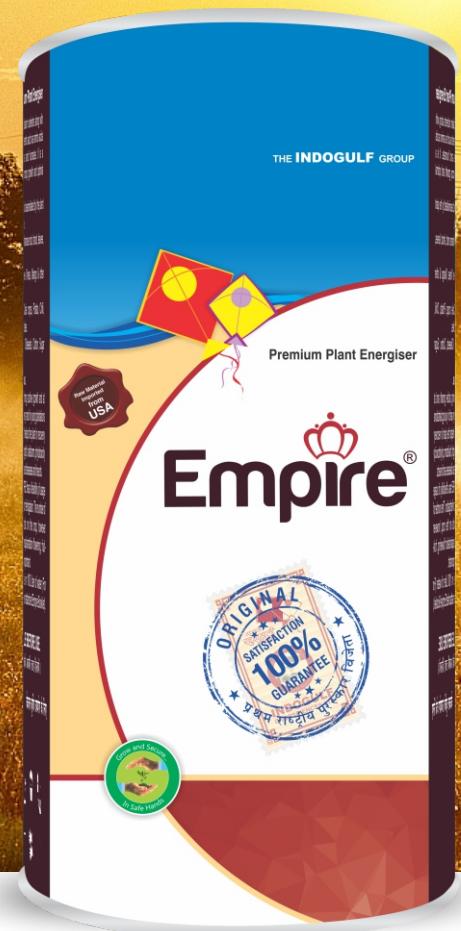
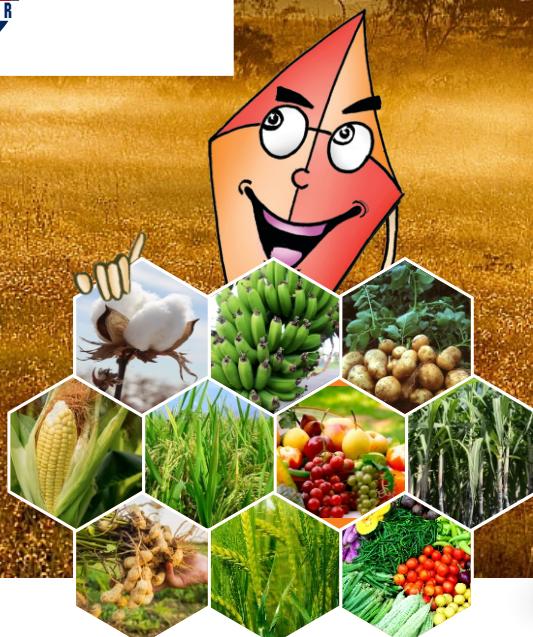
EMPIRE

Product Description

EMPIRE is a unique blend of macronutrients along with naturally occurring bio-stimulants such as amino acids and organic carbon.

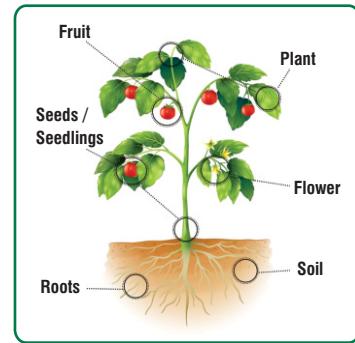
It is a natural bioactivator of the plant immune system and it is based on seaweed extract. These active ingredients protect the plant against any type of stress and provide a high biostimulating power, so that it protects against adverse conditions and provides vigour, improved performance and crop quality.

Empire is a liquid organic biostimulant with a rich formulation of NPK and amino acid that makes it an indispensable ally for improving flowering, fruit set and fruit fattening. It has an excellent impact on vegetative metabolism.



Product Features & Benefits

- EMPIRE is a revolutionary new formula for crop growth and optimal yields.
- EMPIRE is readily absorbed and assimilated by the plant through leaves when applied on foliage. It is recommended to enhance root, shoot, leaves, flowers and fruits set in all crops.
- EMPIRE is recommended during active growth and at flowering stage.
- EMPIRE is used in nursery and young plantations is also recommended.
- EMPIRE helps the plant to recover from stress due to drought, hailstorm, flood phytotoxicity, pest infestation etc.



Direction of Use

EMPIRE has a flexibility of usage as a foliar spray and drip irrigation. The number of application & timing depends on the crop, however application at the time of transplanting, flowering, fruit setting, and ripening are the most important.

Crops recommended: All type of crops.

Foliar spray: Use 500-600 gm/Ha/application.

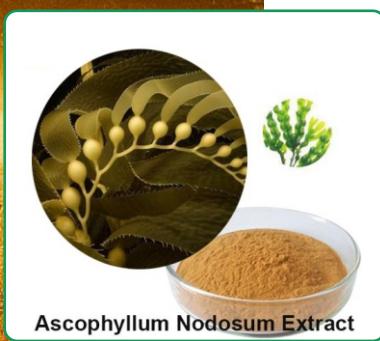
Spray @ 1-1.2 gm/litre of water for fruit crops.

It is non-phytotoxic at recommended rates.

Products blended with irrigation water should be used immediately and not stored for long periods.

Proper coverage of plant is must for effective result.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Specifications

Appearance: Black to brown color liquid

pH (2% aqueous): 2.5-4.0

Density: 1.17-1.20 g/ml

Contents

Seaweed extracts, Amino Acid, Fulvic acid, Protein derivatives

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

120 gm | 240 gm | 480 gm

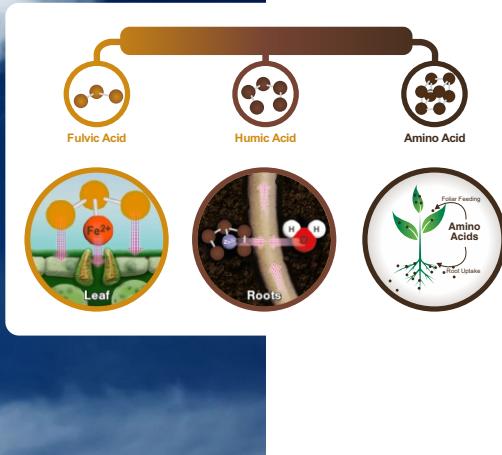


INDO BREEZA

Product Description

INDO BREEZA is unique formulation based on seaweed, humic acid, potassium humates, amino acid and naturally occurring hormones and vitamins. It provides hormones derived from seaweed extract and natural phytohormones, which are essential throughout the growing cycle.





Product Features & Benefits

- INDO BREEZA is 100% water soluble noodles for easy and uniform mixing.
- INDO BREEZA stimulates enzymatic activity and increases the plants defence against abiotic stress factors.
- The absorption of humic acid and fulvic acid into seeds has a positive influence on seed germination and seedling development.
- INDO BREEZA acts as natural chelator for essential nutrients in the soil and increases their usability for the plants.
- INDO BREEZA acts as an anti-oxidant against free radicals and thus prevents cell damage.
- INDO BREEZA promotes root growth and biomass build-up.
- INDO BREEZA increases seed germination, promote root and shoot growth.
- INDO BREEZA improves moisture retention in the soil to increases drought tolerance in plants

Direction of Use

INDOBREEZA is appropriate for all type of crops, especially for vegetable and cucurbit crops, fruits and nut trees, grapes, berries, olives, avocados and citrus.

Foliar spray: Use 300-375 gm/Ha/application for cereals, vegetables and sugarcane crops. Spray after 20-25 days of sowing or transplanted crops.

Spray @ 0.6-0.75gm/litre of water for fruit crops. Repeated application may be beneficial.

INDOBREEZA is compatible with any pesticides and fungicides.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



(Before)



(After)



Specifications

Appearance: Brown to black color noodles

pH (2% aqueous): 6.50-9.50

Material insoluble in water: ≤ 0.5%

Contents

Seaweed extracts, Amino Acid, Humic acid, Fulvic acid
Potassium

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

50 gm | 100 gm | 250 gm

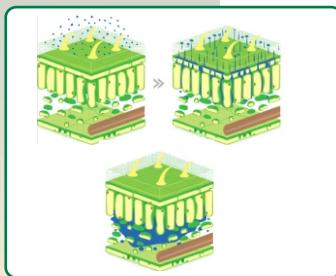


ANKUR GOLD

Product Description

ANKUR GOLD is a super wetting and spreading agent which improves the efficacy of any agrochemicals when use mix with ANKUR GOLD by its action to get sprayed faster on plant surface and absorbed immediately into the plant system. It has a low molecular weight nonionic silicone surfactant, developed to improve the wetting, spreading and penetration of agricultural chemicals.





Product Features & Benefits

- ANKUR GOLD is a spray adjuvant which helps to lower the aqueous surface tension more effectively than conventional spray adjuvants. Because the contact angle of spray solutions on leaf surfaces is reduced, leading to an increase in spray coverage.
- ANKUR GOLD promotes rapid uptake of agrochemicals into plants via stomatal infiltration. Spray solutions taken into plants in this way become rain fast, thereby improving application reliability.
- ANKUR GOLD is nonionic in nature, making it useful with a broad range of agrochemical formulations.

Direction of Use

Dose: Use 1 ml per 3 litre spray solution.

ANKUR GOLD is to be used as a tank-mix with foliar applied agrochemicals. Strictly follow agrochemicals, PGR's and fertilizers label instructions for tank filling, fill water volume to only 90%. Add ANKUR GOLD, mix thoroughly and add the remaining water.

ANKUR GOLD is OMRI approved product, hence it can be used in organic agriculture.

Application	Typical Use Rate
Plant Growth Regulators	0.025% to 0.05%
Herbicide	0.025% to 0.15%
Insecticide	0.025% to 0.1%
Fungicide	0.015% to 0.05%
Fertilizers and Micronutrients	0.015% to 0.1%

Note: use rates are dependent on crop, agrochemical and spray volume requirements.

Specifications

Appearance: Clear colourless homogeneous liquid

pH (5% Solution): 6.00-8.00

Solubility: No creaming or no sedimentation

Spreadability (0.1%Aqueous): Avg. Diameter 30mm min.

Contents

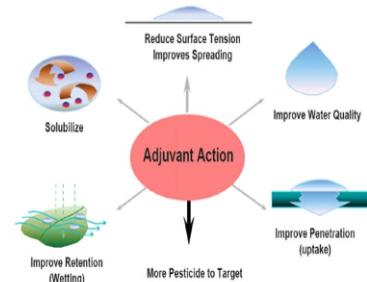
Non-ionic adjuvant based on a Trisiloxane Alkoxylate

*For detailed composition write to us at info@groupindogulf.com



Pack Sizes

10 ml | 40 ml | 100 ml | 250 ml | 500 ml | 1 litre



BIOGOLD

Product Description

BIOGOLD has seaweed extract powder/flake which is derived from natural brown seaweed: *Ascophyllum nodosum*, *Sargassum*, *Laminaria Japonica*. It is rich in alginic acid, trace mineral element and natural plant hormones.





Product Features & Benefits

- BIOGOLD helps plants cope with various stress, such as heat, drought and frost.
- BIOGOLD gives plants better resistance to sucking insects and fungal attack.
- BIOGOLD promotes seed germination and reduces transplant shock.
- BIOGOLD stimulate root development and promote vigorous flowering and fruiting.
- BIOGOLD helps to increase nutrient uptake, thus to increase the effectiveness of fertilizers.
- BIOGOLD increases and stimulates beneficial microorganisms in soil, improve soil structure.

Direction of Use

BIOGOLD is suitable for application on all the crops for seed treatment and to cope with various biotic and abiotic stress.

Foliar Spray: Use 250-300 gm/ha/application for field crops. Repeat after 15 days interval.

Spray @ 1.0-1.2 gm/litre of water for fruit crops. Repeat after 15 days interval.

Seed treatment: Soak the seeds in 10% slurry of BIOGOLD for 6-8 hours. Roots of seedling can also be dipped.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Seed Treatment



Root and Seedling Treatment

Specifications

Appearance: Dark brown to black crystalline

powder

pH (5% Aqueous): 8.00-11.00

Solubility: 100% water soluble

Contents

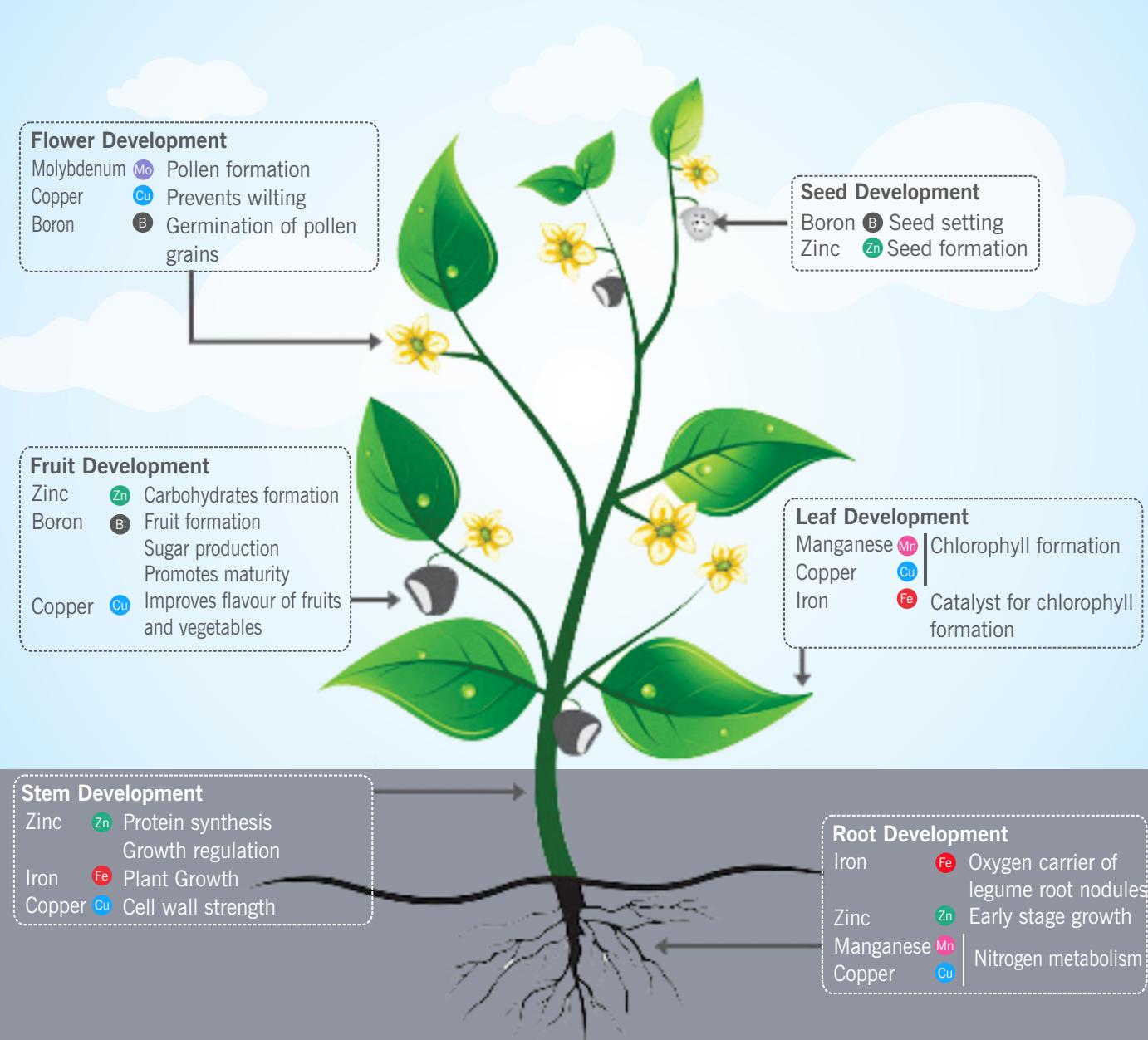
Seaweed extract, Alginic acid, Nitrogen, Protein

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

10 gm | 50 gm | 100 gm | 250 gm





MICRONUTRIENTS

JAGROMIN 99

Product Description

JAGROMIN 99 is a liquid complex of essential microelements and provides essential plant nutrients such as Zinc, Iron, Manganese, Magnesium, Copper, Boron in ideal predetermined proportions. It prevents and corrects traced elements deficiency from the onset.

Product Features & Benefits

- JAGROMIN 99 is specially formulated to enhance the colour, weight, size and sugar content of the fruit.
- JAGROMIN 99 keeps cell wall healthy, protects fruits from cracking, shape distortion, make crispy.
- JAGROMIN 99 enhances & strengthens growth of crops.

Direction of Use

Foliar spray: Use 1250-1500 ml/ha and spray on the whole plant.

Application period for Field crops: First spray: 30-35 days after sowing or 25-30 days after transplantation.

Second spray: 20-25 days after first spray.

Application period for Fruit crops: First spray: 20-25 days before flowering

Second spray: After fruit set. When the fruit is berry size.

Third spray: 20-25 days after second spray in long duration crops like Mango.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Contents

Iron (as Fe), Zinc (as Zn), Manganese (As Mn)
Magnesium (as Mg), Nitrogen (as N)
Copper (as Cu), Boron (As B)

*For detailed composition write to us at info@groupindogulf.com

Specifications

Appearance: Brown color liquid
pH (1% Aqueous) : 8-11
Solubility : 100% water soluble

Pack Sizes

100 ml | 250 ml | 500 ml | 1 Litre | 5 Litre



ZINC SUPER GOLD



Product Description

ZINC SUPER GOLD is a complete mixture of selected micronutrients. It contains extra quantity of sulphur for soil nourishment & natural plant meal for all purpose growth. Mixture of micronutrient for direct soil applications.

Product Features & Benefits

- ZINC SUPER GOLD is used for bulk application in soil.
- ZINC SUPER GOLD protects plants from several deficiencies and helps them in regulating the metabolic activities.
- Crop become healthy and increase resistance against pest and disease and improve quality of yield.
- ZINC SUPER GOLD increase oil content and quality in oil seed crop.

Direction of Use

Apply at the beginning of the crop cycle during soil bed preparation and for soil health treatment to promote the availability of soil nutrients and to help with the start of the crop. Successive applications at the beginning of the cycle will help in increasing the plant vigour and allow a better recovery for the plants.

Soil application: Use 12.5-20.0 kg/ha for all the crops as total dose (according to crop and deficiency degree).

Use 200-300 gm/pit for fruit crops as total dose (according to crop and deficiency degree).

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Specifications

Appearance: Free flowing granules
pH (5% Aqueous): ≥ 4

Contents

Iron (Fe), Manganese (Mn), Zinc (Zn),
Copper (Cu), Boron (B), Molybdenum (Mo)

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

1 Kg | 5 Kg | 25 Kg

ZINC SUPER PLUS

Product Description

ZINC SUPER PLUS is the mixture of micronutrients and secondary nutrients.

Product Features & Benefits

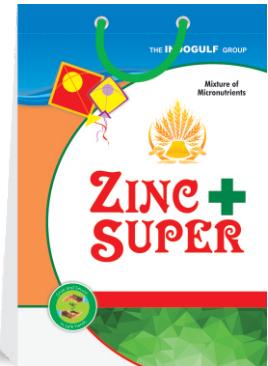
- ZINC SUPER PLUS is soluble in water and helps in growth & development of plant
- ZINC SUPER PLUS increase number of branches, larger leaves photosynthetic area and stimulates growth & develop roots.
- ZINC SUPER PLUS generate more tillering in the plants.
- ZINC SUPER PLUS control disease of root rot in the plants and increase crop production about 25-30%.
- ZINC SUPER PLUS increase disease resistance capacity in the plants.
- ZINC SUPER PLUS improve photosynthesis cycle in plants.
- ZINC SUPER PLUS increase oil content and quality in oil seed crop.

Direction of Use

Apply at the beginning of the crop cycle during soil bed preparation and for soil health treatment to promote the availability of soil nutrients and to help with the start of the crop. Successive applications at the beginning of the cycle will help in increasing the plant vigour and allow a better recovery for the plants.

Soil application: Use 15.0-20.0 kg/ha for all the crops as total dose (according to crop and deficiency degree).

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Contents

Sulphur, Iron (Fe), Magnesium, Zinc (Zn)
Calcium(Ca)

*For detailed composition write to us at info@groupindogulf.com

Specifications

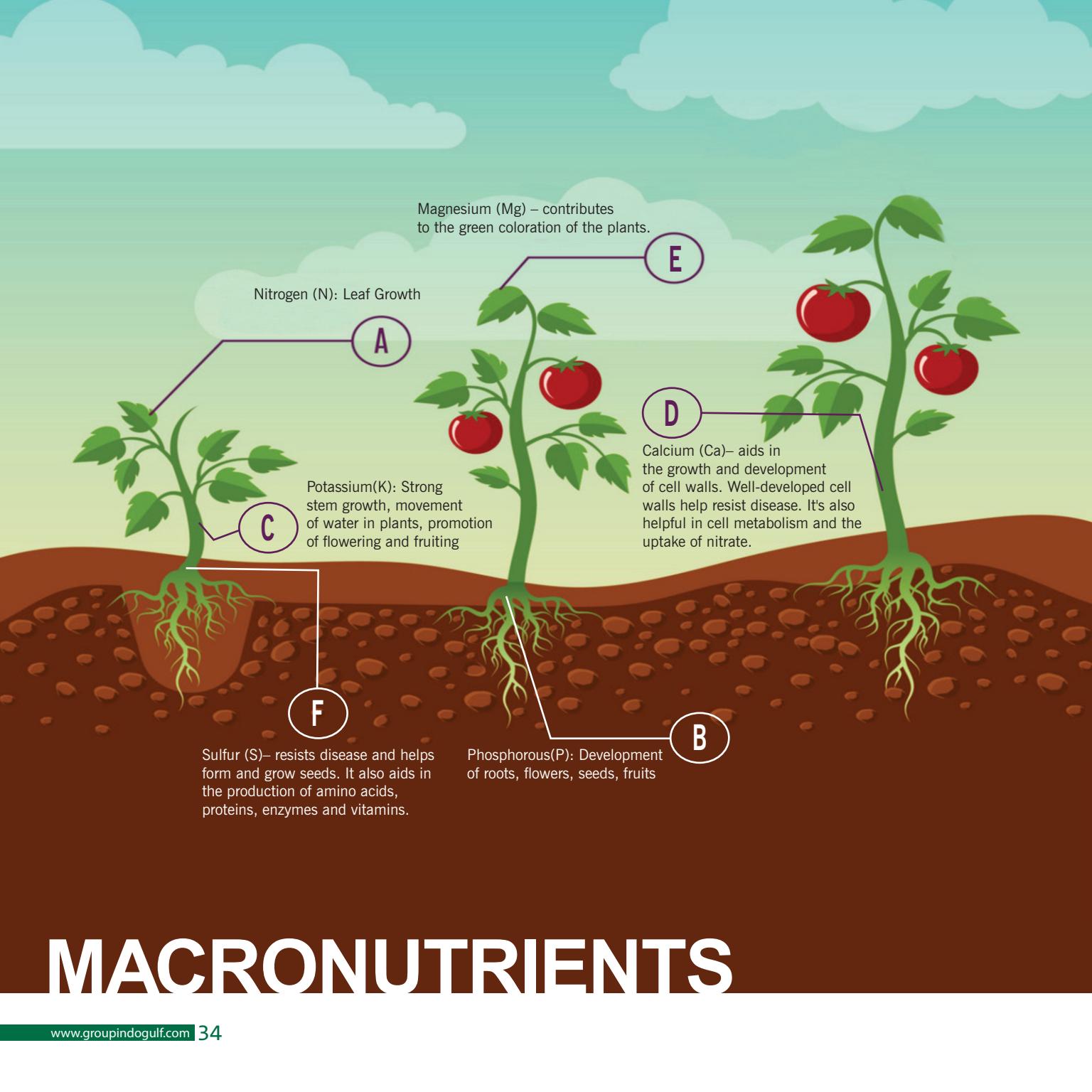
Appearance: Free flowing powder
pH (5% Aqueous): ≥ 4

Pack Sizes

1 Kg | 5 Kg | 25 Kg

Disclaimer - Product can be tailor made as per the regulatory requirements of country to meet the diverse market requirements





PRADHAN

Product Description

PRADHAN is a free flowing , 100% water-soluble product designed to complement a well-balanced plant nutritional program. It contains Nitrogen, Phosphorus and Potassium in equal ration and recommended to used for drip Fertigation or foliar spray.

Product Features and Benefits

- PRADHAN matches crops basic nutrients demand.
- PRADHAN can be applied in all crops, and can be used in quickly correcting the NPK requirement of the plant even if the basal dose is skipped.
- PRADHAN's fertilizer use efficiency is almost 100% especially when applied foliar.
- PRADHAN is environment friendly.
- PRADHAN enhance root growth, balances endogenous hormones, induces floral bud and improves leaf color.

Direction of Use

Water Soluble Fertilizer 19:19:19 is appropriate for all the crops, especially for vegetable and cucurbit crops, deciduous fruit and nut trees, grapes, berries, olives, avocados and citrus, which need balanced NPK at their early growth stage.

Foliar spray: Use 2.0-2.5 kg/Ha/application.

Drip irrigation: Use 6.0-7.5 kg/Ha/application.

It is non-phytotoxic at recommended rates.

Products blended with irrigation water should be used immediately and not stored for long periods.

Proper coverage of plant is must for effective result.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Contents

NPK 19:19:19

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

1 Kg | 25 Kg

Specifications

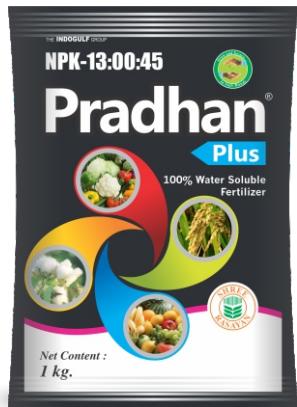
Appearance: Pink color free flowing powder

Moisture: 1.5% w/w

Material insoluble in water: ≤ 0.5% w/w



PRADHAN PLUS



Product Description

PRADHAN PLUS is a Potassium nitrate fertilizer in free-flowing granules form which is totally water soluble. It is a great source of N & K for plants, largely used during fruiting stage.

Product Features & Benefits

- Application of PRADHAN PLUS enhance nutrient uptake efficiency will be enhanced as losses due to leaching volatilization will be minimized.
- Since N and K are specially structured and designed, this will give an excellent growth in all the stages of crop namely seedling stage, vegetative stage, reproductive stage and ripening stage.
- The nutrients are textured and cohesively balanced. Hence, this will give better result and excellent yield in all crops like fruits, vegetables, flowers, field crops, foliage crops etc.
- PRADHAN PLUS is useful for excellent fruit setting & fruit development
- PRADHAN PLUS has low n/k ratio therefore suitable for all crops and all growing stages in crop cycle

Direction of Use

PRADHAN PLUS is compatible with all water-soluble fertilizers and also majority of pesticides in foliar application.

PRADHAN PLUS can be used for all type of crops.

Foliar spray: Use 2.0-2.5 kg/Ha/application.

Drip irrigation: Use 6.0-7.5 kg/Ha/application.

It is non-phytotoxic at recommended rates.

Products blended with irrigation water should be used immediately and not stored for long periods.

Proper coverage of plant is must for effective result.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Specifications

Appearance: Pink color free flowing powder

Material insoluble in water: $\leq 0.5\%$ w/w

Moisture: 1.5% w/w

Contents

NPK 13:00:45

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

1 Kg | 25 Kg



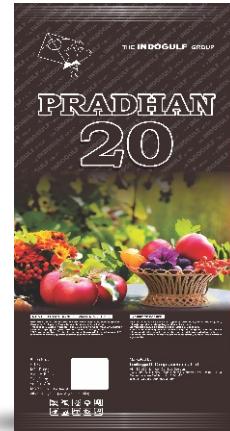
PRADHAN 20

Product Description

PRADHAN 20 is Water Soluble Fertilizer contributing nitrogen 20% phosphorus 20% and potassium 20%. It contains balanced nutrient NPK applications to improves vegetative and reproductive activities and improves bearing of flowers and fruits, and improves quality.

Product Features & Benefits

- PRADHAN 20 matches crops basic nutrients demand.
- PRADHAN 20 is high water solubility (insoluble is only 0.5%) and efficient utilization.
- PRADHAN 20 is fast absorption, convenient application and environment friendly.
- PRADHAN 20 allows rapid crop growth and when used after the fruit set, it ensures high yield and quality.
- PRADHAN 20 is versatile since it can be used for all crops and all kinds of soil.
- PRADHAN 20 is non-phytotoxic at recommended dosage.
- PRADHAN 20 is highly effective & fit for foliar spray and drip irrigation.



Direction of Use

PRADHAN 20 is appropriate for all type of crops. Apply in vegetative growth / fruiting stage and repeat at 15 days interval..

Foliar spray: Use 2-2.5 kg/Ha/application.

Drip irrigation: Use 6-7.5 kg/Ha/application.

It is non-phytotoxic at recommended rates.

Products blended with irrigation water should be used immediately and not stored for long periods.

Proper coverage of plant is must for effective result.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Contents

NPK 20:20:20

*For detailed composition write to us at info@groupindogulf.com

Specifications

Appearance: Free flowing Granules

pH (5% Aqueous) : 4.5-7.5

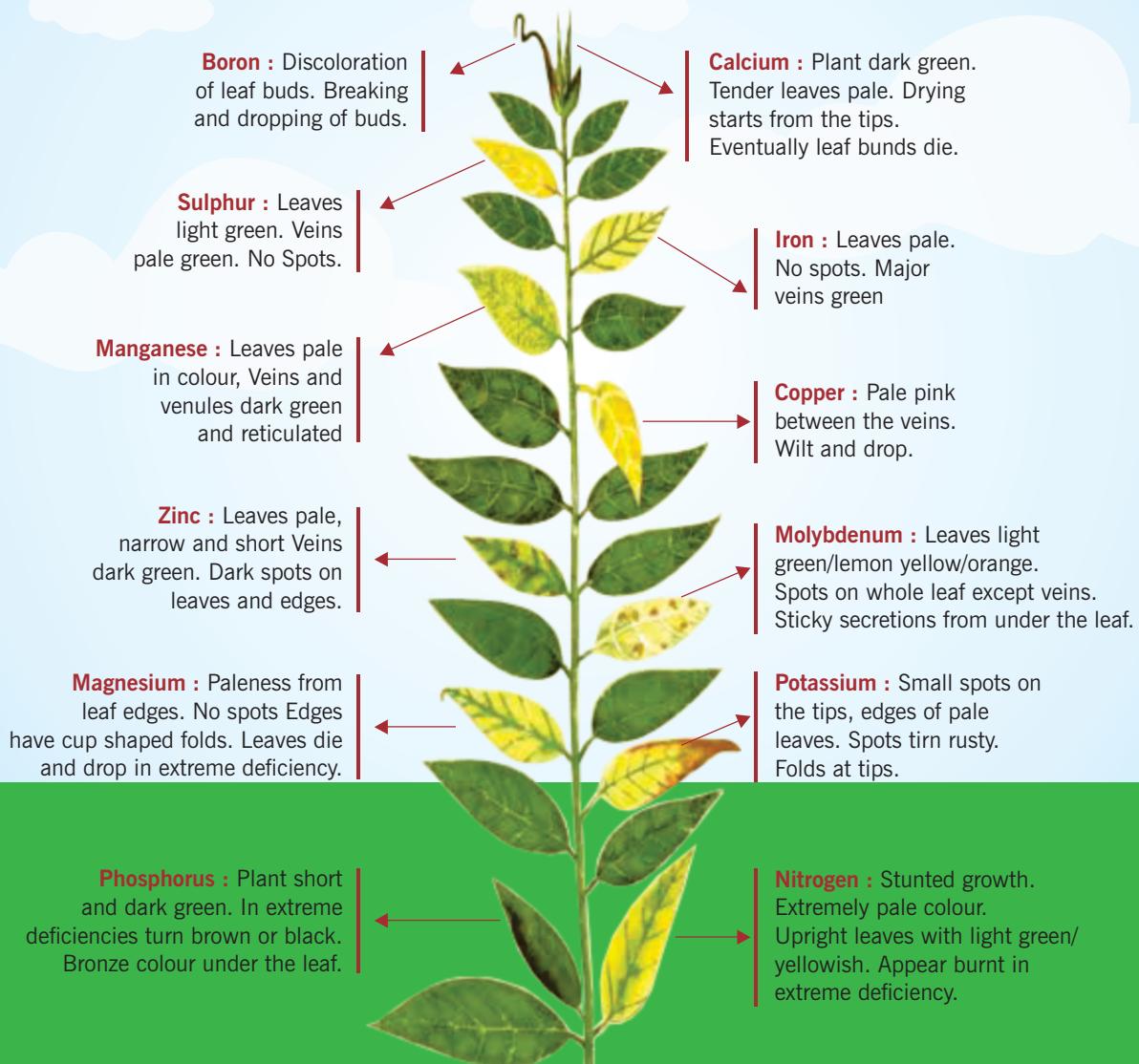
Material Insoluble in Water : $\leq 0.5\%$ w/w

Pack Sizes

1 Kg | 25 Kg



Deficiency Symptom of Micro + Macronutrients



MICRO+MACRONUTRIENTS

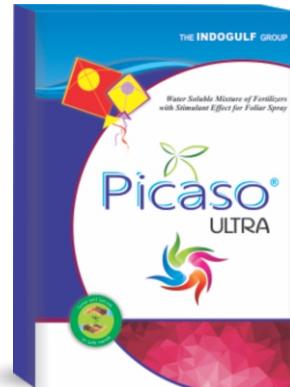
PICASO ULTRA

Product Description

PICASO ULTRA is a NPK fertilizer in solid form, which by its high content of phosphorus, favours the processes related to rooting, flowering and fruit set. Due to its balance of macro and microelements it is a nutritional supplement for crops, increasing production and quality. It can be applied as a foliar spray or by fertigation systems.

Product Features and Benefits

- Convenient application with 100% Water Solubility.
- High Availability, containing chelated microelements to improve the absorption and plant nutrient efficiency.
- This combination is intended to stimulate root development, plant growth and fruit set.
- PICASO ULTRA reduces application times, dosage and nitrogen loss; saves labor.



Direction of Use

PICASO ULTRA can be used for all types of crops especially during fruiting stage and ripening stage which helps to improve quality of fruits and pod formation.

Foliar spray: Use 1.0-1.25 kg/Ha/application.

Soil application: Use 7.5-12.5 kg/Ha as total dose for field crops and 30-40 gm/pit for orchard crops.

PICASO ULTRA is non-phytotoxic at recommended rates.

PICASO ULTRA can be mixed with all types of insecticides. Please don't mix it with any type of weedicides or alkaline material.

Products blended with irrigation water should be used immediately and not stored for long periods.

Proper coverage of plant is must for effective result.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Contents

Potassium (As K₂O), Phosphorous (As P₂O₅)
Iron (Fe), Manganese (Mn), Magnesium (Mg)
Boron (B), Molybdenum (Mo), Zinc (Zn)

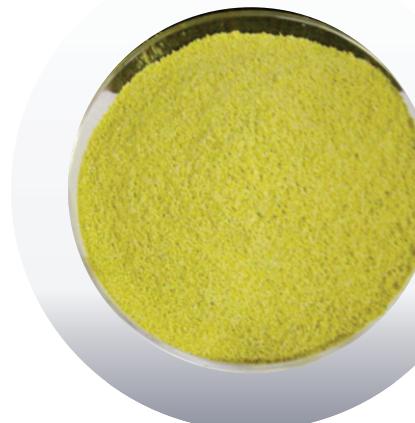
*For detailed composition write to us at info@groupindogulf.com

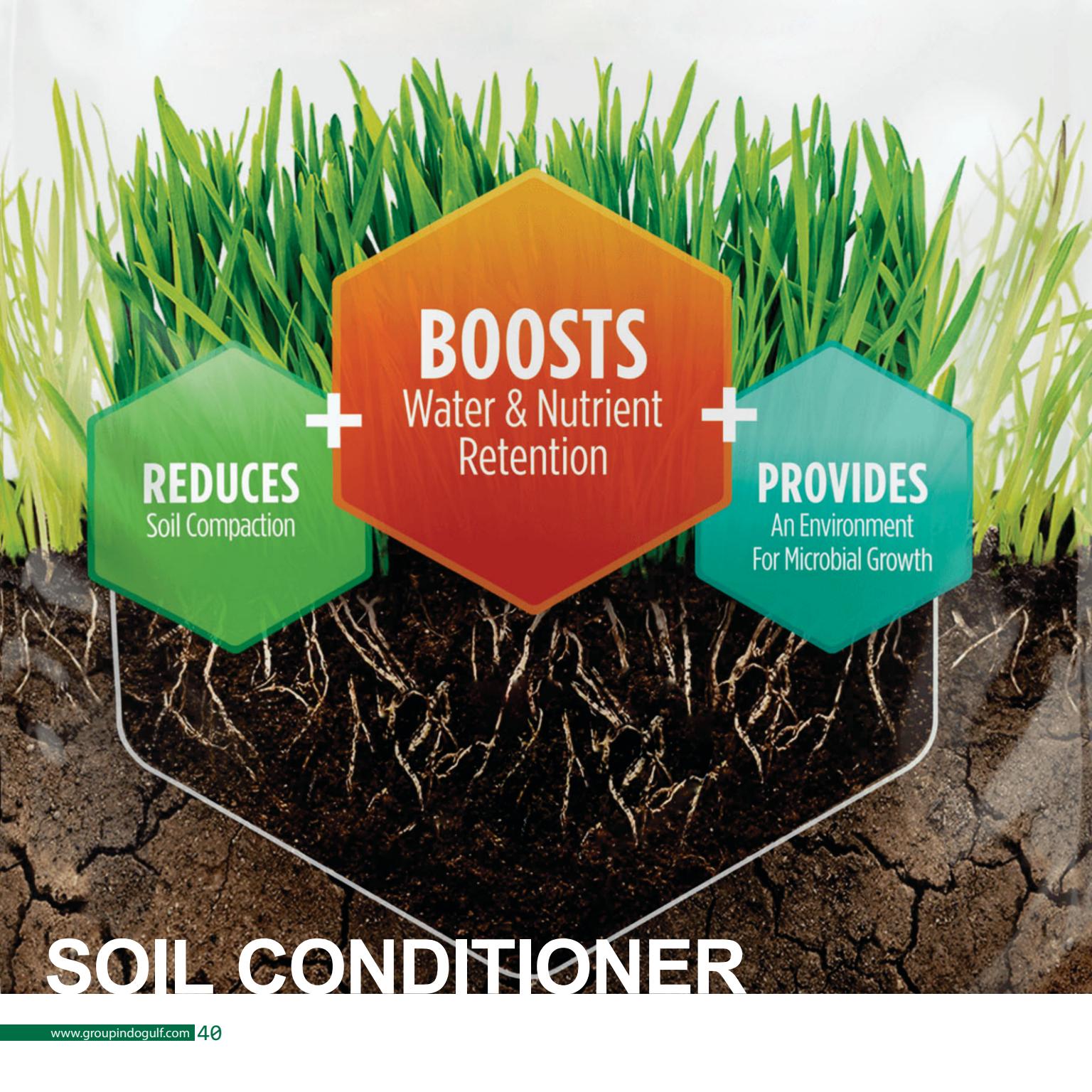
Specifications

Appearance: Free flowing powder
pH (5% Aqueous) : 5.00 - 8.00

Pack Sizes

1 Kg





REDUCES
Soil Compaction

BOOSTS
Water & Nutrient
Retention

PROVIDES
An Environment
For Microbial Growth

SOIL CONDITIONER

BIOKING

Product Description

BIOKING is granulated sea weed extract based organic product. Soil salinity corrector with an acidifying effect, that regulates the pH of the soil. Improve pesticides efficacy and miscibility.

Product Features and Benefits

- BIOKING provides full balanced spectrum of nutrients readily for plants, prevent plant physiological disease effectively.
- BIOKING stimulates growth of plants leading to higher yields and better quality.
- BIOKING helps in development of roots, higher tillering and branching.
- BIOKING improve the soil microbial activity, soil texture, soil porosity and water holding capacity.
- BIOKING also regulate soil pH and ensure the maximum nutrient availability to the plants.



Direction of Use

Apply at the beginning of the crop cycle during soil bed preparation and for soil health treatment to promote the availability of soil nutrients. Successive applications at the beginning of the cycle will help in increasing the plant vigour and allow a better recovery for the plants.

Soil application: Use 20-40 kg/ha for cereals, vegetables and plantation crops as total dose (according to crop and deficiency degree).

Use 200-300 gm/pit for fruit crops as total dose (according to crop and deficiency degree).

BIOKING is compatible with chemical fertilizers and pesticides.

BIOKING is non toxic and safe to use.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Contents

Organic Carbon, Nitrogen

*For detailed composition write to us at info@groupindogulf.com

Specifications

Appearance: Brown to black color granules

pH(5% Aqueous): 5.5-6.5



Pack Sizes

5 Kg | 10 Kg

Disclaimer - Product can be tailor made as per the regulatory requirements of country to meet the diverse market requirements



INDO MYCHORIZA

Product Description

INDO MYCHORIZA is enriched with Mycorrhiza, sea weed extract containing natural bioactive substances like vitamins, free amino acid, alginates and natural hormones. INDO MYCHORIZA helps to develop better root system, play important roles in plant nutrition, soil biology and soil chemistry.

Product Features and Benefits

- Processed out of selected sea weeds (*Sargassum sp*, *Ascophyllum nodosum* and *Laminaria sp*).
- INDO MYCHORIZA have great potential for field application to improve productivity of cereals, fruits and vegetable crops.
- INDO MYCHORIZA acts as suppress of nematode and fungal infection.
- INDO MYCHORIZA regulates the soil pH.
- The Vesicular-arbuscular mycorrhiza (VAM) increases plant tolerance to various biotic and abiotic stress.

Direction of Use

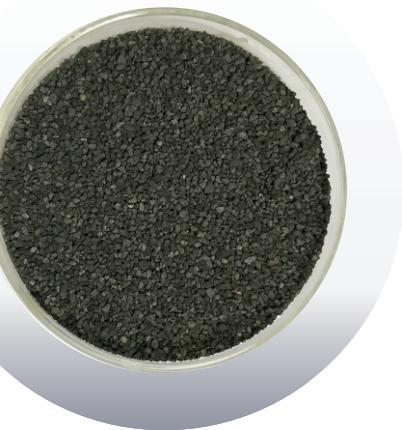
Apply at the beginning of the crop cycle during soil bed preparation and for soil health treatment to promote the availability of soil nutrients and to help with the start of the crop. Successive applications at the beginning of the cycle will help in increasing the plant vigour and allow a better recovery for the plants.

Soil application: Use 10-20 kg/ha for field crops as total dose (according to crop and deficiency degree).

Use 50-60 gm per pit for fruit crops as total dose (according to crop and deficiency degree). Bio fertilizer is not a chemical fertilizer hence do not mix inoculated seeds or inoculants with agrochemicals.

INDO MYCHORIZA is non toxic and safe to use.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Specifications

Appearance: Brown to black color granules

pH (5% Aqueous): 6.00-8.50

Moisture: 5.00-8.00% w/w

Contents

Mycorrhizal propagules, Humic acid, Amino acid

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

4 Kg | 10 Kg | 30 Kg

ROOT-O-MAX GOLD



Product Description

ROOT-O-MAX GOLD is processed out of selected sea weeds (*Sargassum sp*, *Ascophyllum nodosum*, and *Laminaria sp*). Premium Sea Weed Extract Based Soil Conditioner Cum Rooting Stimulant.

Product Features and Benefits

- ROOT-O-MAX GOLD stimulates root development of the plants due to PGR's and providing the necessary macro and micro nutrients and also helps in early establishment of plant- No. of tillers/branches, green foliage due to higher production of chlorophyll.
- ROOT-O-MAX GOLD protects plants from biotic and a biotic stress (excessively high or low temperature, water logging, drought, frost etc).

Direction of Use

Apply at the beginning of the crop cycle during soil bed preparation and for soil health treatment to promote the availability of soil nutrients and to help with the start of the crop. Successive applications at the beginning of the cycle will help in increasing the plant vigour and allow a better recovery for the plants.

Soil application: Use 10-12.5 kg/ha for field crops as total dose (according to crop and deficiency degree).

Use 80-100 gm per pit for fruit crops as total dose (according to crop and deficiency degree).

ROOT-O-MAX GOLD is non toxic and safe to use.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



SOIL CONDITIONER

Contents

Organic Carbon, Nitrogen, Phosphorous(P_2O_5), Potassium(K_2O), Alginic acid, Amino Acid, Calcium, Iron, Magnesium, Sulphur, Copper

*For detailed composition write to us at info@groupindogulf.com

Specifications

Appearance: Mixture of yellow and black color granules

pH (5% Aqueous): 6.00-8.00



Pack Sizes

1 Kg | 4 Kg | 20 Kg

Disclaimer - Product can be tailor made as per the regulatory requirements of country to meet the diverse market requirements

SRICULAN GOLD



Product Description

SRICULAN GOLD is Triacontanol based granular manure. It is a unique biological plant growth promoter that helps in increasing the yield of crops. It helps in prolonged opening of the stomata on the leaves of the plant. This enables the plant to photosynthesize for a longer period which directly enhances the crop yields. It is used as an effective soil application product.

Product Features and Benefits

- SRICULAN GOLD is a tested growth promoter containing specific mixture of naturally occurring long chain high molecular weight fatty alcohols, mainly Triacontanol and B-sitosterol.
- SRICULAN GOLD ensures a healthy growth and better root development as well as low dropping of flowers.
- Non hazardous, easy to use and hygienic.
- SRICULAN GOLD aids in stomatal opening thereby increasing the rate of photosynthesis.

Direction of Use

Recommended crops: Paddy, Tomatoes, Groundnut, Cotton, Chillies etc.

Soil application: Use 20.0-25.0 kg/ha as total dose (according to crop and deficiency degree).

Broadcast and mix the desired quantity of granules in soil 2-3 days before sowing or transplanting as the case may be.

Use stick or rod for stirring diluted solution. Do not eat foods, drink or smoke while spraying for making solution.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Contents

Triacontanol 0.05% GR

*For detailed composition write to us at info@groupindogulf.com

Specifications

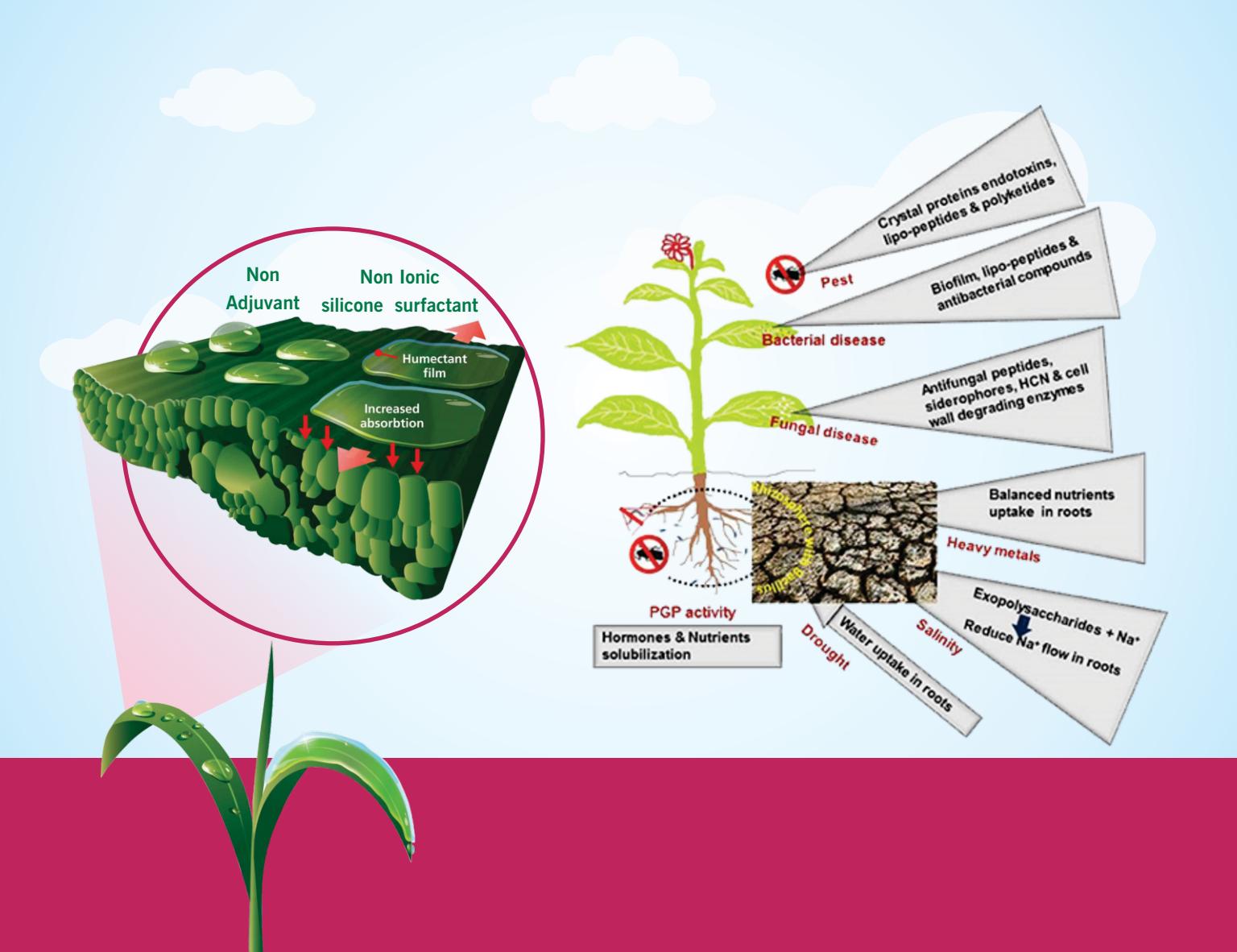
Appearance: Yellow to brown color granules

pH (5% Aqueous): 6.00-8.50

Moisture: 5.00-8.00% w/w

Pack Sizes

5 Kg | 20 Kg



STRESS MANAGEMENT & EFFICACY ENHANCER

BACTRO PLUS GOLD



Product Description

BACTRO PLUS GOLD is a broad-spectrum Immuno modulator and a plant defense activator. It has prophylactic, preventive and curative properties in controlling the bacterial diseases. Plant activators provide an effective management solution for bacterial diseases of plants. They induce plant defense responses known as systemic acquired resistance (SAR) or induced systemic resistance (ISR).

Product Features and Benefits

- BACTRO PLUS GOLD enhances the plant's immune response towards bacterial action and also creates an environment hostile to the growth and survival of bacteria.
- BACTRO PLUS GOLD is a known allergen, it causes Histamine release leading to cell mediated immunity towards infection. Hence its application created elicitor activity in plants, thus making the plant environment hostile towards pathogens.
- BACTRO PLUS GOLD imparts Systemic acquired resistance by improving plant's immunity to the pathogen and thereby doesn't cause pathogen resistance.
- BACTRO PLUS GOLD helps the plant develop resistance against most bacterial diseases caused by pathogenic microbes. Some of the diseases are Fire blight, Citrus canker, Bacterial leaf spot, Soft rot soil rot or pox Leaf spot, Halo blight, bacterial blight, bacterial leaf blight, bacterial wilt, Stem rot, soft rot leaf spots and blights, Bacterial blight and vascular wilting.

Direction of Use

BACTRO PLUS GOLD is suitable for application on all the crops during maturity or ripening stage of the crop cycle.

Foliar Spray: Use 150-200 gm/ha/application for cereal, sugarcane and vegetable crops.

Spray @ 0.2-0.3 gm/litre of water for fruit crops.

It is compatible with most agricultural chemicals. It is NOT compatible with microbial Biopesticides and Microbial Biofertilizers.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Specifications

Appearance: Blue color cylindrical granules
pH (1% Aqueous): 6.00-8.00

Contents

2-Bromo-2-Nitro Propane-1,3-Diol

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

20 Gm



Protein synthesis and growth regulation require Zn. Reduced hormone production due to a Zn-deficient plant will cause the shortening of internodes and stunted leaf growth.

Zinc is less mobile within the plant, so deficiency symptoms first appear on the younger leaves.

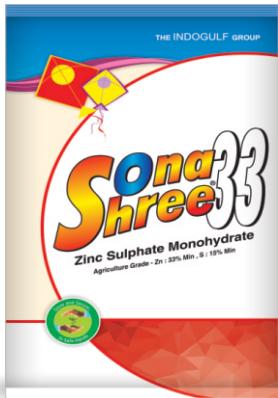
Zinc aids synthesis of plant-growth substances and enzyme system, and is essential for promoting certain metabolic reactions, which are particularly critical in the early growth stages.

As soil pH increases, zinc availability decreases.



SPECIFIC DEFICIENCY CORRECTOR

SONA SHREE 33



Product Description

SONA SHREE 33 contains Zinc 33% in Zinc Sulphate Monohydrate form. It is in crystalline powder form. It is readily soluble in water. Highly water soluble and an effective remedy to overcome the deficiency of Zinc in the crops.

Product Features and Benefits

- Zinc deficiency like stunted plant growth, poor tillering, development of yellowish bleached spots, chlorotic bands on either side of the midrib in monocots (particularly maize), brown rusty spots on leaves in some crops etc. can be totally controlled.
- SONA SHREE 33 helps to regulate metabolic reaction in plants.
- SONA SHREE 33 helps in utilization of N and P in plants.
- SONA SHREE 33 helps in reproduction & formation of growth hormones & protein.
- SONA SHREE 33 gives rapid vegetative growth and healthy crop stand.
- SONA SHREE 33 prevents the loss and increases the efficiency and availability of Nitrogen for a longer period.
- SONA SHREE 33 develops resistance against diseases, pests and environmental stress.
- SONA SHREE 33 improves nutritional quality of the produce. Increases yield and shelf life.

Direction of Use

SONA SHREE 33 is suitable for application on all the crops and rectifies zinc deficiency.

Foliar Spray: Use 500-625 gm/ha/application. Repeat after 15 days interval.

Time of Application: During the vegetative growth period of crops.

It is compatible with most fertilizers and phytosanitary products. It is not advisable to mix it with oils, sulphur, alkaline-reaction products calcium and phosphatic fertilizers.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Specifications

Appearance: White to off white powder

pH (5% aqueous): ≥ 4.00

Material insoluble in water: $\leq 1\%$

Contents

Zinc 33% min.

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

250 gm



SONA SHREE GOLD

Product Description

SONA SHREE GOLD (consisting of Zinc metals) is guaranteed 100% "Chelated" with EDTA (Ethylene Diamine Tetra Acetic Acid), to overcome Zinc deficiency in plants, as well as a source of Zinc for those plants which require Zinc for their normal growth and higher yields. Zinc-EDTA 12% is a highly pure Zinc, which dissolves rapidly and completely. Our product is dust free and is recommended as of early spring until fruit setting and as post-harvest treatment. The high level of Zinc in our formula improves growth of new healthy roots, vigorous shoots and flower buds.

Product Features and Benefits

- Zinc chelate is easily translocated within the plants, because unlike Zinc Sulphate it is partly systemic.
- Zinc Sulphate reduced phosphorous uptake and the phosphorous content of the shoots in plants, while Zn-EDTA increased it.
- Zinc EDTA available to plant system very quickly. This is in contrast with Zinc from other sources which makes Zinc available very slowly, because a large quantity of such Zinc will be fixed in the soil.
- Zinc EDTA is versatile since it can be used for all crops and all kinds of soil.

Direction of Use

SONA SHREE GOLD is suitable for application on all the crops and rectifies zinc deficiency.

Foliar Spray: Use 500-625 gm/ha/application. Repeat after 15 days interval.

Time of Application: During the vegetative growth period of crops.

It is compatible with most fertilizers and phytosanitary products. It is not advisable to mix it with oils, sulphur, alkaline-reaction products calcium and phosphatic fertilizers.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Contents

Zinc 12% (Chelated) EDTA

*For detailed composition write to us at info@groupindogulf.com

Specifications

Appearance: White to off white powder

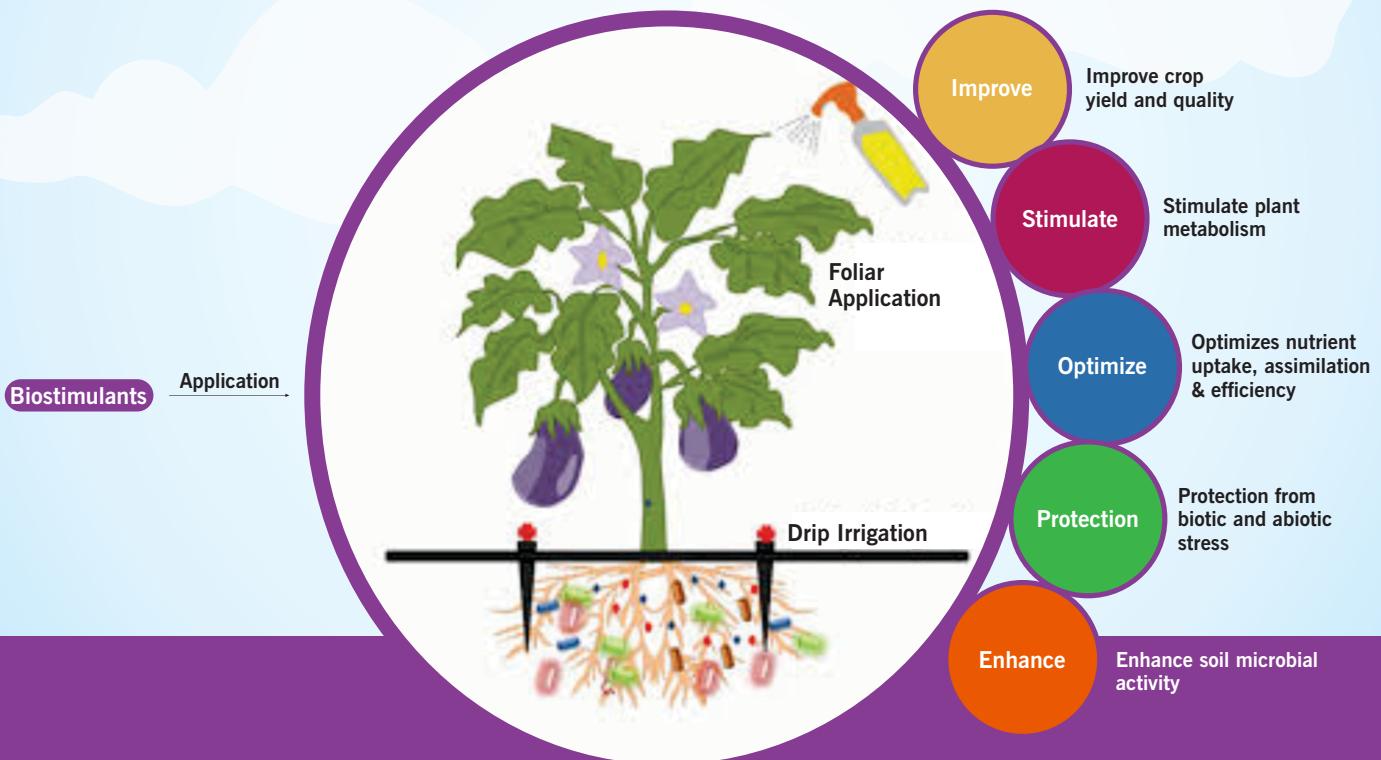
pH (5% aqueous): 6.00-6.50

Solubility: 100% water soluble

Pack Sizes

250 gm | 500 gm | 1 Kg





BIOSTIMULANTS

INDO APACHE

Product Description

INDO APACHE changes the fixation properties of the soil by increasing the buffering nature of the soil, which in turn improves and optimizes the uptake of nutrients by plants. It is commonly used in organic crop production, greenhouse cropping of vegetables, and in horticulture crops. It increases the water infiltration and water holding capacity of the soil. It greatly improve the soil, increase the plants root growth and metabolism, and help plants deal with the environmental stresses.

Product Features and Benefits

It promotes the conversion of nutrients element (N, P, K, Fe, Zn and other trace elements) into farms available to plants. It biologically stimulates growth and proliferation of desirable microorganisms in soil.

- INDO APACHE largely increase the fertility of soil & water holding capacity.
- INDO APACHE optimizes the structure of soil to increase the buffering power and fertility of soil when used for soil application.
- INDO APACHE promotes plants growth & also increase yield and fruits quality.
- INDO APACHE detoxifies the herbicide and pesticide residual effect.
- INDO APACHE promotes more flowers and fruit setting resulting in better quality produce.

Direction of Use

APACHE can be apply through fertigation, Drip Irrigation, soil application and Foliar Spray.

Top dressing : Apply 5 – 8.75 kg/ha for Fruit Trees.

Apply 0.5– 2.0 kg/Ha for Industrial crops, Vegetables, Cereals, Legumes.

Enough moisture should be available in the soil for continued nutrient mobilization.

Foliar spray : 200– 400 gm/Ha

Seed treatment: 60 – 80 gm/per Kg of seed.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.

Specifications

Appearance: Black color crystalline powder

pH (5% aqueous): 9.00-11.00

Water solubility : 100% water soluble

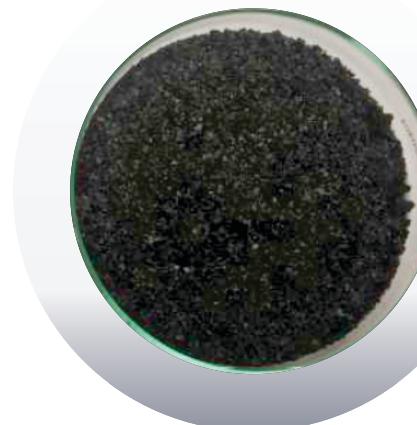
Contents

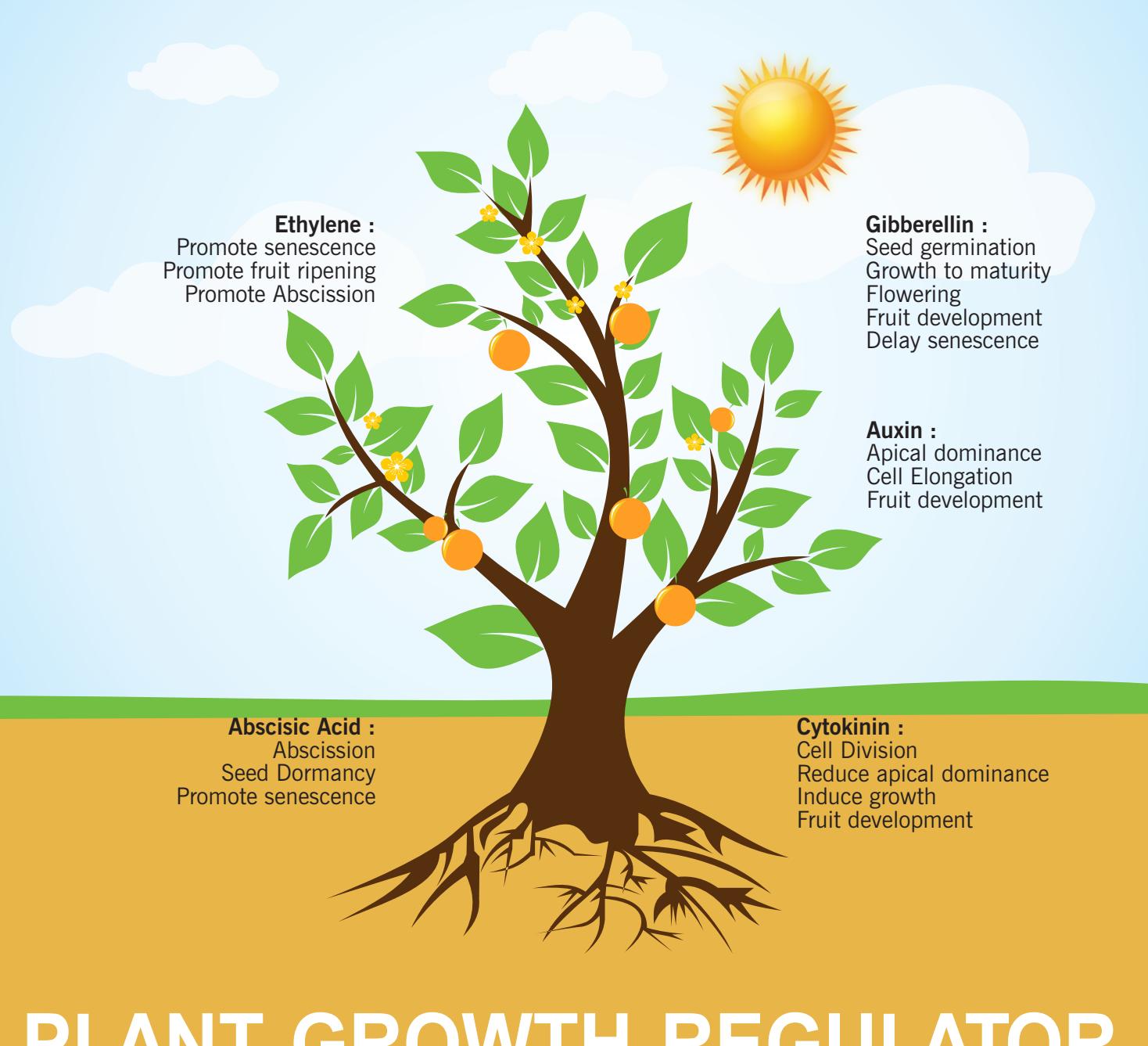
Humic acid, Fulvic acid, K₂O

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

500 gm





PLANT GROWTH REGULATOR

RUSPON

Product Description

RUSPON is plant growth regulator with systemic properties. It penetrates into the plant tissues, and is translocated and progressively decomposed to ethylene, which positively affects the growth process.

Product Features and Benefits

- RUSPON is a versatile plant growth regulator which improves coloration and accelerates uniform ripening of fruits like pineapple, mango, tomato, etc. It can be deployed in specific uses like defoliation in pomegranate and breaking alternate bearing in mango.
- RUSPON is a PGR with effective Hormone actions and defoliants; ethylene releases.
- RUSPON is a plant hormone for inducing flowering, for inducing ripening, enlarges the fruit size and increases the yield of the crop.



Direction of Use

Mango (for breaking alternate bearing tendencies): First spray in mid-October or early November total 5 spray at fortnightly interval

Mango (for flower induction): Commencing from early November total 5 sprays at weekly interval

Mango (post-harvest treatment): Dip mature fruits in the solution for uniform ripening. One treatment is required

Pineapple (for flower induction): 30-37 leaf stage or 10-12 months. One spray is required

Coffee (Arabica & Robusta): For uniform ripening of berries, one spray at fly picking stage when 10-15% of berries have ripened

Tomato (post-harvest treatment): Post-harvest treatment can be done by dipping once

Rubber: March, August, September, November (four applications) brushing once in two months on the tapping cut of the bark

Cucumber (Sex Modification): At 5 leaf stage

Groundnut (Breaking dormancy): Seed soaking before sowing for 24 hours

Recommended dosages per hectare: @ 100 ppm to 2500 ppm of a.i. or 3 to 5 litre of formulation in dilution with 1500-2000 litre of water per hectare.



Specifications

Appearance: Red color homogenous liquid

pH (10% aqueous): ≤ 2.5%

Contents

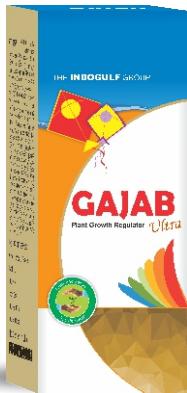
Ethephon 39% SL

*For detailed composition write to us at info@groupindogulf.com

Pack Sizes

100 ml | 1 Ltr

GAJAB ULTRA



Product Description

GAJAB ULTRA is a superior combination of Gibberellic acid and sea weed extracts (Brown algae) and a metabolic enhancer which stimulate & regulate the plant growth.

Product Features and Benefits

- GAJAB ULTRA improves micronutrients and water uptake through root initiation and development.
- GAJAB ULTRA improve establishment and growth of young plants produced from cuttings, seed or plugs.
- GAJAB ULTRA can be used as a seed dormancy breaker and delays aging of leaves.
- GAJAB ULTRA increase soil microbial activity and cell growth in stems, leaves and roots.
- GAJAB ULTRA helps to withstand stress conditions like drought, frost and attack of insects by improving immunity.
- GAJAB ULTRA reduces flower and fruit dropping and enhances quality of produce.
- GAJAB ULTRA stimulate flower, enlarge fruit and boost crop yields.

Direction of Use

GAJAB ULTRA can be used for all types of crops at the time of Vegetative Growth, Flowering, Fruit Setting, and Ripening are the most important crop stages.

Foliar spray: Use 625-750 ml/Ha/application for field crops.

Spray @ 1.5-2.0 ml/litre of water for fruit crops.

GAJAB ULTRA is compatible with commonly used fertilizers and pesticides except Sulphur, copper fungicides and Bordeaux mixture.

GAJAB ULTRA should not be mixed with alkaline substances.

Note: Recommendations are based on local soil and water analysis. Please contact **Indogulf Customer Care** for your personalised fertilizer recommendation.



Contents

Gibberellic Acid, Iron (Fe), Zinc (Zn), Manganese(Mn), Magnesium(Mg)

*For detailed composition write to us at info@groupindogulf.com

Specifications

Appearance: Brown color liquid

pH (1% aqueous): 8.00-11.00

Solubility: 100% water soluble

Pack Sizes

100 ml | 250 ml | 500 ml | 1 Ltr

THE INDOGULF GROUP FOR EXTENSIVE CROPS

Indogulf Cropsciences Ltd. is an Indian company that operates in the field of plant nutrition since 1993, playing a leading role on the National and International market.

Always projected toward innovation, we have developed a range of fertilizers, biostimulants and nutritional specialties that stand out for the effectiveness of action by improving the qualitative and quantitative crop yields by adopting the principles of sustainable development.

The company constantly demonstrates its commitment in listening to customers and responding concretely to their needs, supporting them with its own specialized sales network and making use of its technical staff composed of qualified experts.



CEREALS, MILLETS & COTTON

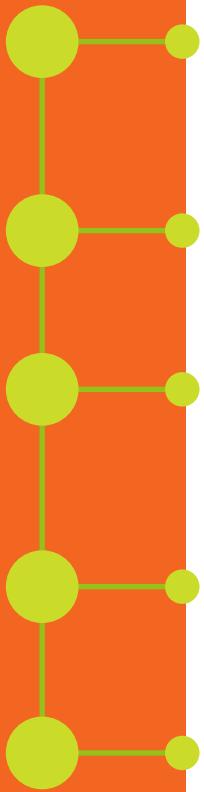
WHEAT : The best wheat are produced in areas favoured with cool, moist weather during the major portion of the growing period followed by dry, warm weather to enable the grain to ripen properly. The optimum temperature range for ideal germination of wheat seed is 20-25 °C though the seeds can germinate in the temperature range 3.5 to 35 °C.

Soils with a clay loam or loam texture, good structure and moderate water holding capacity are ideal for wheat cultivation. Care should be taken to avoid very porous and excessively drained soils. Soil should be neutral in its reaction. Heavy soil with good drainage are suitable for wheat cultivation under dry conditions.

MAIZE : Maize can be grown successfully in variety of soils ranging from loamy sand to clay loam. However, soils with good organic matter content having high water holding capacity with neutral pH are considered good for higher productivity. Being a sensitive crop to moisture stress particularly excess soil moisture and salinity stresses; it is desirable to avoid low lying fields having poor drainage and also the field having higher salinity. Therefore, the fields having provision of proper drainage should be selected for cultivation of maize.

COTTON : Cotton grows well in warm and moist climate where summer is long and where there is salinity in the soil. Cotton grows well in a temperature of 24°C. But cotton bursts out, high temperature is injurious. 60-100 cm rainfall is essential for the cultivation of cotton.





SOIL BED PREPARATION/SOIL HEALTH TREATMENT

ROOT-O-MAX GOLD (10-12.5 Kg/Ha) OR ROOT-O-MAX ULTRA (8.75-11.25 Kg/Ha) OR
BIOKING (20 - 40 Kg/Ha) OR PICASO ULTRA (7.5-12.5 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Improve organic matter content
- Balancing of micronutrient

SEED TREATMENT

BIOGOLD (2-5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination.

VEGETATIVE STAGE

PRADHAN (2.5 Kg/Ha) OR PICASO POWER (375-500 gm/Ha) OR INDO BREEZA (300-375 gm/Ha)
JAGROMIN (1250-1500 ml/Ha) OR SRICULAN GOLD (20-25 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Vegetative & Root Growth

EARHEAD/BALL FORMATION STAGE

GAJAB ULTRA (625-750 ml/Ha) OR PICASO GOLD (500-625 ml/Ha) OR EMPIRE (500-600 gm/Ha)

ADVANTAGES OF TREATMENT:

- Improves flowering & Ear head formation

RIPENING/MATURITY STAGE

BACTRO PLUS GOLD (150-200 gm/Ha)

ADVANTAGES OF TREATMENT:

- Protection from bacterial disease.



Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

PADDY

PADDY : Paddy crop needs a hot and humid climate. It is best suited to regions which have high humidity, prolonged sunshine and an assured supply of water. The average temperature required throughout the life period of the crop ranges from 21 to 37° C. The crop is grown under so diverse soil conditions that it can be said that there is hardly any type of soil in which it cannot be grown, including alkaline and acidic soils. Soils having good water retention capacity with good amount of clay and organic matter are ideal for rice cultivation. Clay or clay loams are most suited for rice cultivation, such soils are capable of holding water for long and sustain crop. Rice being a semi-aquatic crop grows best under submerged conditions. Rice plant is able to tolerate a wide range of soil reaction, but it does have a preference for acidic soils. It grows well in soils having a pH range between 5.5 and 6.5. It can be grown on alkali soils also, after treating them with gypsum or pyrite.



SOIL BED PREPARATION/SOIL HEALTH TREATMENT

ROOT-O-MAX GOLD (10-12.5 Kg/Ha) OR ROOT-O-MAX ULTRA (8.75-11.25 Kg/Ha) OR
BIOKING (20 - 40 Kg/Ha) OR ZINC SUPER GOLD (12.5-20 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Improve soil health
- Balancing of micronutrient

SEED TREATMENT

BIOGOLD (2-5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination

NURSERY STAGE

BIOGOLD (250-300 gm/Ha) OR PICASO GOLD (500-625 ml/Ha)

ADVANTAGES OF TREATMENT:

- Healthy nursery.
- Better establishment of plant in main field.

VEGETATIVE STAGE

PICASO POWER (375-500 gm/Ha) OR SONASHREE GOLD (500-625 gm/Ha) OR
SRICULAN GOLD (20-25 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Vegetative & Root Growth

FLOWERING STAGE

PICASO POWER (375-500 gm/Ha) OR JAGROMIN 99 (1250-1500 ml/Ha) OR
EMPIRE (500-600 gm/Ha) OR INDO BREEZA (300-375 gm/Ha)

ADVANTAGES OF TREATMENT:

- Rectifies Zinc & Micronutrient deficiency.
- Better flowering

PANICLE INITIATION

GAJAB ULTRA (625-750 ml/Ha) OR PICASO GOLD (500-625 ml/Ha)

ADVANTAGES OF TREATMENT:

- Prevent Flower & Fruit dropping

RIPENING/MATURITY STAGE

PICASO ULTRA (1.0-1.25 Kg/Ha) BACTRO PLUS GOLD (150-200 gm/Ha)

ADVANTAGES OF TREATMENT:

- To improve the quality of fruit/head.
- Protection from bacterial disease.

Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

SUGARCANE

SUGARCANE : It is considered as essentially a tropical plant. It is a long duration crop and thus it encounters all the seasons' viz., rainy, winter and summer during its life cycle. Optimum temperature for sprouting (germination) of stem cuttings is 32° to 38°C. For ripening, however, relatively low temperatures in the range of 12° to 14° are desirable, since this has a noticeable influence on the reduction of vegetative growth rate and enrichment of sucrose in the cane. A total rainfall between 1100 and 1500 mm is adequate provided the distribution is right, abundant in the months of vegetative growth followed by a dry period for ripening.

A well-drained, deep, loamy soil and an available water holding capacity of 15% or more (15 cm per meter depth of soil is considered ideal for sugarcane cultivation). The optimum soil pH is about 6.5 but sugarcane can tolerate considerable degree of soil acidity and alkalinity. Hence, it is found growing in soils with pH in the range of 5 to 8.5. Liming is required if pH is less than 5.0, or gypsum application if pH is more than 9.5. Nematode infestations are likely to occur in very sandy soils.



SOIL BED PREPARATION/SOIL HEALTH TREATMENT

ROOT-O-MAX GOLD (10-12.5 Kg/Ha) OR ROOT-O-MAX ULTRA (8.75-11.25 Kg/Ha) OR
BIOKING (20 - 40 Kg/Ha) OR ZINC SUPER GOLD (12.5-20 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Improve organic matter content
- Balancing of micronutrient

PLANTING

BIOGOLD (2-5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination.

VEGETATIVE STAGE (Formative to Grand phase to Maturity stage) 60->250 days

PRADHAN (2.5 Kg/Ha) OR PICASO POWER (375-500 gm/Ha) OR EMPIRE (500-600 gm/Ha)

JAGROMIN (1250-1500 ml/Ha) OR SRICULAN GOLD (20-25 Kg/Ha) OR INDO BREEZA (300-375 gm/Ha)

GAJAB ULTRA (625-750 ml/Ha) OR SONA SHREE GOLD (500-625 gm/Ha)

ADVANTAGES OF TREATMENT:

- Vegetative & Root Growth

RIPENING/MATURITY STAGE

BACTRO PLUS GOLD (150-200 gm/Ha)

ADVANTAGES OF TREATMENT:

- Protection from bacterial disease.



Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

PULSES AND OIL SEED CROPS

(Chickpea, Green gram, Pea, Black gram, Red gram, Groundnut, Soybean, Rapeseed, Safflower & Linseeds)

CHICKPEA : These crops grow best in medium-textured soil, but is successful on a wide range of soil textures, such as loam and clay, but sandy soils should be avoided. Soil pH at 5.7–7.5 is optimal. Crops does not tolerate waterlogged conditions, hence it requires well drained soils.

Chickpea is a self-pollinating legume that requires a cool climate during its initial growth period- with optimum temperatures ranging between 15°C and 25°C, and a warmer climate as it matures.

GREEN GRAM AND BLACK GRAM : These Crops are warm season grain legumes which grow in tropical regions and require warm temperatures for germination.

PIGEON PEA (RED GRAM) : it has a high level of drought resistance and is mainly grown as an unirrigated, dryland crop. It can be grown in conditions of both low (5–10°C) and high (up to 40°C) temperatures.

GROUNDNUT : It is essentially a tropical plant. The most favourable climate conditions for groundnut are a well distributed rainfall of at least 50 cm during growing season, abundance of sunshine and relatively warm temperature.

RAPSEED : It grows best at temperatures between 3–25 °C, while optimum temperature for growth and production is 21°C. During its lifecycle, the plant may be exposed to extreme temperatures, below zero in the winter (in case of autumn varieties), and over 30 °C at summer time. The plant is especially sensitive to heat stress at 27–30 °C, during flowering and early pod-set.

SOYBEAN: It grows well in warm and moist climate. A temperature of 26.5 to 30°C appears to be the optimum for most of the varieties. Soil temperature of 15.5°C or above favour rapid germination and vigorous seedling growth.



SOIL BED PREPARATION/SOIL HEALTH TREATMENT

ROOT-O-MAX GOLD (10-12.5 Kg/Ha) OR ROOT-O-MAX ULTRA (8.75-11.25 Kg/Ha) OR BIOKING (20 - 40 Kg/Ha) OR ZINC SUPER GOLD (12.5-20 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Improve organic matter content
- Balancing of micronutrient

SEED TREATMENT

BIOGOLD (2-5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination.

VEGETATIVE STAGE

PRADHAN (2.5 Kg/Ha) OR PICASO POWER (375-500 gm/Ha) OR INDO BREEZA (300-375 gm/Ha) JAGROMIN (1250-1500 ml/Ha) OR SRICULAN GOLD (20-25 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Vegetative & Root Growth

FLOWERING/POD FORMATION STAGE

GAJAB ULTRA (625-750 ml/Ha) OR PICASO ULTRA (1.0-1.25 Kg/Ha) OR EMPIRE (500-600 gm/Ha)

ADVANTAGES OF TREATMENT:

- Improves flowering & Pod formation

RIPENING/MATURITY STAGE

BACTRO PLUS GOLD (150-200 gm/Ha)

ADVANTAGES OF TREATMENT:

- Protection from bacterial disease.



Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

VEGETABLES

(Cabbage, Cauliflower, broccoli, Knol khol, Tomato, Onion, Chilli, Brinjal, Peppermint)

CABBAGE : These plants can withstand -10 for a short time, older plants are less hardy. The growth rate of cabbage stops at 0 °C and is quickest at 15 °C to 20 °C. Above 25 °C growth stops.

CAULIFLOWER AND BROCCOLI : These crop will not stand temperatures as high or low as cabbage. High temperatures delay maturity and increase vegetative growth (number of leaves) and cool temperatures hasten maturity and may induce "bolting". Young hardened plants can withstand -5 to -10C. An optimum growth rate occurs at 15°C to 22°C and growth stops above 30°C. Well drained, sandy loam soils are suited to early varieties, loamy and clay loam soils are suited to late ones. Late cultivars are somewhat tolerant of poor drainage.

SOLANACEOUS VEGETABLES (TOMATO, CHILLI, BRINJAL) : These are typical warm-season crops. For germination, brinjal and capsicum require a minimum temperature of 16–18 °C, whereas tomato growth and development virtually stop at temperatures below 10 °C. Solanaceous crops prefer well-drained, light soils with a high amount of organic matter. The pH should be kept near 6.5.



SOIL BED PREPARATION/SOIL HEALTH TREATMENT

ROOT-O-MAX GOLD (10-12.5 Kg/Ha) OR ROOT-O-MAX ULTRA (8.75-11.25 Kg/Ha) OR
BIOKING (20 - 40 Kg/Ha) OR PICASO ULTRA (7.5-12.5 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Improve soil health
- Balancing of micronutrient

SEED TREATMENT

BIOGOLD (2-5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination.

NURSERY STAGE

BIOGOLD (250-300 gm/Ha) OR PICASO GOLD (500-625 ml/Ha)

ADVANTAGES OF TREATMENT:

- Healthy nursery.
- Better establishment of plant in main field.

VEGETATIVE STAGE

PICASO POWER (375-500 gm/Ha) OR SONASHREE 33 (500-625 gm/Ha) OR
SRICULAN GOLD (20-25 Kg/Ha) OR JAGROMIN 99 (1250-1500 ml/Ha)

ADVANTAGES OF TREATMENT:

- Vegetative & Root Growth

FLOWERING STAGE

PICASO GOLD (500-625 ml/Ha) OR EMPIRE (500-600 gm/Ha) OR
INDO BREEZA (300-375 gm/Ha)

ADVANTAGES OF TREATMENT:

- Rectifies Zinc & Micronutrient deficiency.
- Better flowering

FRUITING STAGE

GAJAB ULTRA (625-750 ml/Ha) OR PICASO POWER (375-500 gm/Ha)

ADVANTAGES OF TREATMENT:

- Prevent Flower & Fruit dropping
- Enhance fruit setting

RIPENING/MATURITY STAGE

GAJAB ULTRA (625-750 ml/Ha) BACTRO PLUS GOLD (150-200 gm/Ha)

ADVANTAGES OF TREATMENT:

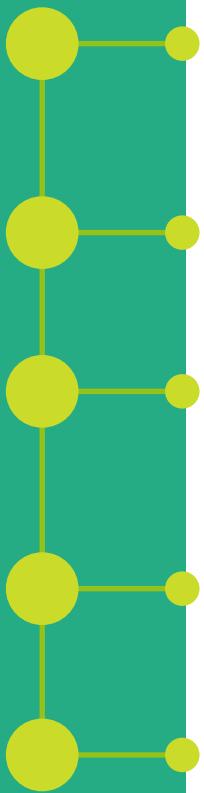
- To improve the quality of fruit/head.
- Protection from bacterial disease.

Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

POTATO

POTATO : Potato crop is grown in a wide range of soils, from sandy to clays, and performs better in soils with pH between 5.5 and 6.7. Saline and alkaline soils are not suitable for potato cultivation. In high pH values (above 7.5) phosphorus mainly but also other micronutrients deficiency may appear. Also in high pH conditions, potatoes are susceptible to scab bacterial infection caused by *Streptomyces scabies*. The optimum conditions for root development and tuber initiation are well drained, aerated soils, with the temperature between 15° and 20° C. Vegetation growth (haulms) occurs when the air temperature is 7° C - 35° C, but the optimum growing conditions are between 20° C - 27° C. Short days length will help in tuber initiation whether longer days will delay it.





SOIL BED PREPARATION/SOIL HEALTH TREATMENT

ROOT-O-MAX GOLD (10-12.5 Kg/Ha) OR ROOT-O-MAX ULTRA (8.75-11.25 Kg/Ha) OR BIOKING (20 - 40 Kg/Ha) OR PICASO ULTRA (7.5-12.5 Kg/Ha)

ADVANTAGES OF TREATMENT:

- Improve organic matter content
- Balancing of micronutrient

SEED TREATMENT

BIOGOLD (2-5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination.

VEGETATIVE STAGE

SONA SHREE GOLD (500-625 gm/Ha) OR PICASO POWER (375-500 gm/Ha) OR JAGROMIN (1250-1500 ml/Ha) OR SRICULAN GOLD (20-25 Kg/Ha) OR INDO BREEZA (300-375 gm/Ha)

ADVANTAGES OF TREATMENT:

- Improves vegetative growth

TUBER SETTING STAGE

PICASO GOLD (500-625 ml/Ha) OR EMPIRE (500-600 gm/Ha)

ADVANTAGES OF TREATMENT:

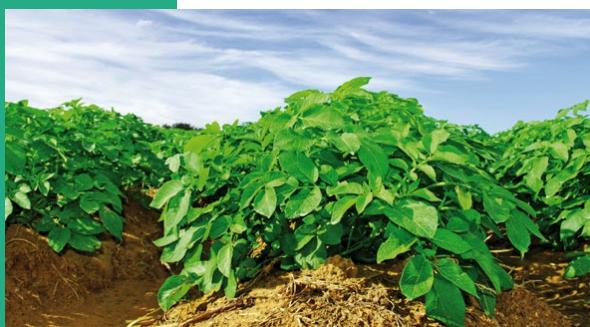
- Improves flowering & Pod formation

RIPENING/MATURITY STAGE

BACTRO PLUS GOLD (150-200 gm/Ha) OR GAJAB ULTRA (625-750 ml/Ha)

ADVANTAGES OF TREATMENT:

- Protection from bacterial disease.



Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

APPLE, PEAR AND POME FRUITS

APPLE : Apples grow best on a well-drained, loam soils having a depth of 45 cm and a pH range of pH 5.5-6.5. The soil should be free from hard substrata and water-logged conditions. Soils with heavy clay or compact subsoil are to be avoided. The apple is a temperate fruit crop. The average summer temperature should be around 21-24 C during active growth period.

PEAR : Pear grows best in deep, medium textured and well drained soils. Pear can be grown from foothills to high hills experiencing 500-1500 chilling hours. It can tolerate as low as -26°C temperature when dormant and as high as 45°C during growing period.

POMEGRANATE : Pomegranate grows well under semi-arid conditions and can be grown upto an altitude of 500 m. above m.s.l. It thrives well under hot, dry summer and cold winter provided irrigation facilities are available. The tree requires hot and dry climate during fruit development and ripening.



SOIL PIT PREPARATION/PLANTING STAGE (OCTOBER-FEBRUARY)

ROOT-O-MAX GOLD (100 gm/Pit) + INDO MYCORIZA (50 gm/Pit) OR
ROOT-O-MAX ULTRA (50-60 gm/Pit) OR BIOKING (200-300 gm/Pit) & PRADHAN (20-25 gm/plant)
BIOGOLD (2-2.5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Increase efficiency to generate organic content
- Balancing of macronutrient.
- Healthy & uniform seedling establishment.

SILVER TIP STAGE (FEBRUARY END TO MID MARCH)

ROOT O MAX ULTRA (50-60 gm/pit) OR
EMPIRE (1.0-1.2 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Improve soil aeration and remove abiotic stress of tree in clay soil and improve nutrient uptake capacity of plant
- Improve plants' nutrient uptake capacity from soil and roots growth
- Enhance Photosynthetic activities of plant

GREEN TIP STAGE (MARCH)

ROOT-O-MAX GOLD (100 gm/pit) OR INDO BREEZA (0.6-0.75 gm/Ltr Water)
JAGROMIN-99 (2.5-3 ml/Ltr Water) OR PICASO POWER (1.0-1.2 gm/Ltr Water)
PRADHAN (5-6 gm/Ltr Water) OR PICASO GOLD (1.2-1.5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Act as Soil conditioner and regulate soil pH and improve soil fertility
- It rectifies the N,P,K, Zn and micronutrient deficiency and increase flowering and fertilization of crop.

PINK TIP STAGE TO PETAL FALL STAGE (MARCH END TO MID APRIL)

EMPIRE (1.0-1.2 gm/Ltr Water) GAJAB ULTRA (1.5-2.0 ml/Ltr Water) PICASO ULTRA (2.5-3.0 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- It helps in fruit setting and remove stress conditions of the plant (Stress has little effect unless flowers are remaining non-viable)
- Crop protected from bacterial diseases

PETAL FALL TO FRUIT SETTING STAGE (MID APRIL TO 1ST WEEK OF MAY)

EMPIRE (1.0-1.2 ml/Ltr Water) BACTRO PLUS GOLD (0.2-0.3 gm/Ltr Water)
INDO BIOGOLD (1-1.5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- It helps in fruit setting and remove stress conditions of the plant (Stress has little effect unless flowers are remaining non-viable)
- Crop protected from bacterial diseases

FRUIT MATURITY STAGE (MID MAY TO JULY)

PICASO GOLD (1.2-1.5 ml/Ltr Water) PICASO POWER (1.0-1.2 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Remove micro nutrient deficiency and improve quality of fruits ultimately yield enhanced

Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.

CITRUS AND STONE FRUITS

CITRUS : Citrus requires deep, well drained soils with 6.0-7.5 pH. Citrus is particularly sensitive to salt concentrations in the soil solution. Well drained loams are better than clay soils. However, it can be grown from hilly areas to semi-arid irrigated areas. If the soil pH is near 8.5 then EC of soil should be less than 0.5 mmhos/cm for the success of citrus orchards. Citrus performs well in sub-tropical conditions. However, it cannot withstand too low temperature for long period. Mandarins are adapted to sub-mountainous regions. Areas with assured irrigation and temperature range of 7-47°C are best suited for Kinnow and sweet oranges cultivation.

PEACH AND NECTARINES : These are fruit trees of temperate zone not very resistant to the cold, its area of cultivation extends between 30 and 40° of latitude. Most varieties can get damaged on flower buds at -15°C for peaches and below -4°C for nectarines. Requires well-drained and fertile soils for the best yields. They are the most sensitive stone fruits to water-logging.

CHERRY : Cherry is one of the most resistant fruit trees to low winter temperatures. Temperatures of -2°C will damage flowers. It requires long and cold winters and short and hot summers but with fresh nights and temperate springs. Deep well drained soils are more productive. Limey and heavy soils with high pH are not tolerated. Cherries need irrigation or adequate soil moisture to ensure good fruit fill.

APRICOTS : Chilling requirements for apricots range from 300-900 hours. Apricots prefer relatively dry climates and it is quite resistant to drought. It is very sensitive to late winter frost or to the latest spring frost.

Deep fertile, light and well drained soils are best. Apricots are more tolerant of high soil pH and salinity than other *Prunus* species. They are intolerant of water-logging.

PLUM : Deep well-drained soils with a pH of 5.5 to 6.5 provide the best plum crops. Plums, particularly are more tolerant of water-logging than other *Prunus* species and can be grown on heavier clay soils.



SOIL PIT PREPARATION

ROOT-O-MAX ULTRA (50-60 gm/Pit) OR
BIOKING (200-300 gm/Pit) & PRADHAN (20-25 gm/plant)

ADVANTAGES OF TREATMENT:

- Increase efficiency to generate organic content
- Balancing of macronutrient.

PLANTING

BIOGOLD (2-2.5 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Healthy seedling & uniform germination.

VEGETATIVE STAGE

ROOT O MAX GOLD (100 gm/pit) OR ROOT O MAX ULTRA (50-60 gm/pit)

ADVANTAGES OF TREATMENT:

- Improves root growth & enhance plant nutrient uptake capacity from soil. Act as soil conditioner & regulate soil Ph & improve soil fertility

AFTER 10 DAYS

EMPIRE (1.0-1.2 gm/Ltr Water) OR INDO BREEZA (0.6-0.75 gm/Ltr Water)

JAGROMIN 99 (2.5-3.0 ml/Ltr Water) OR PICASO POWER (1.0-1.2 gm/Ltr Water)

PICASO GOLD (1.2-1.5 ml/Ltr Water)

ADVANTAGES OF TREATMENT:

- Enhance Photosynthetic activities of plant.
- It rectifies micronutrient deficiency & increase flowering

FRUITING STAGE

GAJAB ULTRA (1.5-2.0 ml/Ltr Water) OR PICASO ULTRA (2.5-3.0 gm/Ltr Water)

EMPIRE (1.0-1.2 gm/Ltr Water) OR BACTRO PLUS GOLD (0.2-0.3 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Increases flowering growth due to cell expansion & starch accumulation, reduce the abort problem in developing viable fruit
- Protects from bacterial diseases.

RIPENING/MATURITY STAGE

PICASO GOLD (1.2-1.5 ml/Ltr Water) PICASO POWER (1.0-1.2 gm/Ltr Water)

BIOGOLD (1-1.5 gm/Ltr Water) BACTRO PLUS GOLD (0.2-0.3 gm/Ltr Water)

ADVANTAGES OF TREATMENT:

- Remove micro nutrient deficiency & improve quality of fruits ultimately increase in yield.
- Protects from bacterial diseases.

Note - Ankur Gold @0.5 ml/ltr of water can be mixed in each spray after preparing the solutions to be mixed thoroughly. Ankur Gold to be used @ 1.0ml/ltr of water to break the hardening of soil in case of continuous raining.



SHARING EXPERIENCES

FARMER TESTIMONIALS

CAULIFLOWER



AMRINDER SINGH

Punjab (India)



"I choose to use **EMPIRE** in my plot as foliar spray in my cauliflower crop. This allows for better plant available nutrients, leading to good crop growth and better yield. I'm impressed with Empire formulations being unique in their ability and enhance the leaf size, colour and spreading of the plant. I am sure that with this product, my crop yield will be at least 15-20 percent higher than the previous season."

Crops: Cauliflower

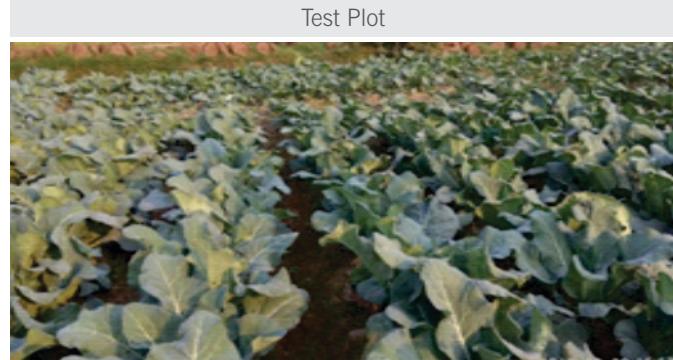
Farm Size: 10 Hectare

OBSERVATION

Control Plot



Test Plot



Conclusion: We have seen very significant growth in the plant height, leaf size and spread of the plant within 10 days of application of Empire. The difference is clearly visible and the farmer is very happy with the results.

OKRA



M.VENKATA RAMANA

Andhra Pradesh (India)



"What I value most about ICL is the commitment and confidence that they show in my day to day life. With the use of liquid fertilizers for fertigation, **PICASO GOLD** in Okra since one year I found that my crop yield has increase both in terms of quality and quantity. It has a very good effect when applied as foliar spray. I want to give suggestion to my other younger and elder farmer brothers also to use it ."

Crops: Okra

Farm Size: 8 Hectare

OBSERVATION

Control Plot



Test Plot



Conclusion: With Application of Picaso Gold, the crop height ,No. of flowering ,fruit formation & crop shining increased significantly. Further side branches also increased due to which Farmer suggest other farmers also that it is a profitable product for all the crops, and says thanks to its high efficiency and reduced application costs.



PADDY



RAJBIR SINGH

Haryana (India)



"I use **ROOT O MAX ULTRA** in my Wheat, Paddy, Chickpea & Onion crops. ROMU nourishes my cereal crop for an extended period of time. The plant absorbs the nitrogen gradually which results in a healthier and more vigorous plant. It gives best root and shoot development."

Crops: Paddy, Wheat, Onion, Chickpea

Farm size: 35 Hectare

OBSERVATION



Conclusion: The plot where ROMU was applied was very healthy and exhibited rapid emergence of panicles. The control had no significant increase in the number of panicles, While in treated plot, the no of panicles increased from few to many. Farmer is getting better rates for his crop.

MARIGOLD



SITARAM

Madhya Pradesh (India)



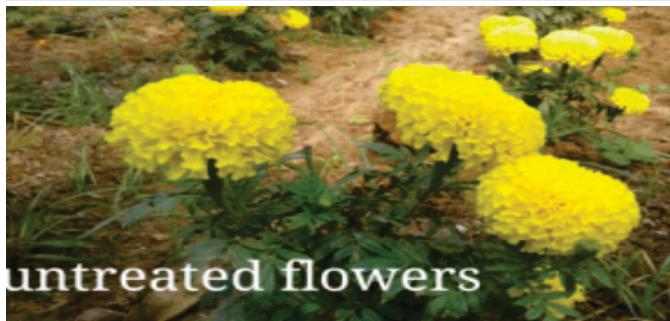
"Within 10 days of **PICASO POWER** spraying, there was a significant improvement in our Marigold plants, the plant exhibited rapid bud and leaf development. This is a sign of higher marigold production. The yellowish colour of my plant has transformed into healthy green colour. I am getting much higher marigold production than anticipated and my crop is fetching much better prices of the produce."

Crops: Marigold

Farm size: 25 Hectare

OBSERVATION

Control Plot



Test Plot



Conclusion: In Picaso power treated plot we observed No. of flowers ,Flower size, Growth, Shining increase, Flower Quality also excellent.

CUCUMBER



DEVI SHANKAR

Uttar Pradesh (India)



"After mixing **ANKUR GOLD** with other pesticides and fertilizer their effect on the crop remains for long time and hence the efficacy of the product increases automatically."

Crops: Tomato, Chilli and Cucumber

Farm Size: 18 Hectare

OBSERVATION

Control Plot



Biogold with Ankur Gold

Test Plot



Biogold without Ankur Gold



Mancozeb with Ankur Gold



Mancozeb without Ankur Gold

Conclusion: Ankur Gold has showed tremendous rapid effect as it act as a super wetting and spreading after mixing with other fertilizer and pesticides and increase their efficacy in fighting against nutrient deficiency, insect-pest and several diseases.



GRAPES



SUNIL

Maharashtra (India)



"It's very difficult to control the biotic stress along with bacterial and fungal attack. For that I applied **BIOGOLD**. This brings me a very fast, healthy and effective reaction on the vegetation of my vines. I apply it from the planting stage for better germination and healthy seedling and at maturity stage to protect my vines from bacterial disease, so I can get excellent yields."

Crops: Grapes

Farm Size: 80 Hectare

OBSERVATION

Control Plot



Test Plot



Conclusion: In Biogold treated plot, foliage got resistance from fungal disease like leaf spot, has a quick effect on the vegetation and allowed farmers to improve their yield.

OTHER POSSIBLE FERTILIZER COMBINATIONS

NUTRIENT SEED DRESSER

0-22-3 with 3.4% Zinc & 3.4% Copper

0-27-6 with 3.8% Zinc & 1.5% Manganese

0-22-3 with 6.7% Zinc

POWDER FOLIAR FERTILIZERS

13-40-13 with MgO(1%)+ Fe(2000 ppm)+Mn (1000 ppm)+Cu(1000 ppm)+ B (1000 ppm)+Zn(1000 ppm)

24-8-16 with MgO(2%)+ Mn(650 ppm)

15-30-15 with MgO(2%)+ Fe(1000 ppm)+Mn(1000 ppm)+Cu(1000 ppm)+ B (500 ppm)+Zn(1700 ppm)

10-52-10 with Fe(1500 ppm)+Mn(1500 ppm)+Cu(1500 ppm)+B (1500 ppm)+Zn(1500 ppm)

LIQUID FOLIAR FERTILIZERS

7-20-0 with Zn(4%)+Fe(1.8%)+Mn(1.3%)+Free Amino Acid

12-4-4 with Free Amino Acids (2.7%)

10-30-5 with MgO(1%)

POWDER SOIL FERTILIZERS

Humic acid(70%)+Potassium(12%)

4-5-43 with S(14.19%)

5-0-40 with MgO(1%)+ Fe(1000 ppm)+Mn(2000 ppm)+Cu(500 ppm)+B(510 ppm)+Zn(2000 ppm)

ORGANIC FERTILIZERS

Organic matter (50.0% min.)+Total nitrogen (1.0% min.)+K2O (18.0% min.)+P2O5 (0.8% min.)+Alginic acid (10.0%-25.0%)

Humic acid (dry base) (75.0% min.)+K2O (dry base) (12.0% min.)

Fulvic acid (dry basis) (50.0% min.)+K2O (dry basis) (12.0% min.)+P2O5 (dry basis) (3.0% min.)

Humic acid (dry basis) (50% min.)+Fulvic acid (dry basis) (30 %min.)+K2O (dry basis) (12 %min.)

Delegation from Africa Visited to ICL

Her excellency, ambassador of Botswana, Africa has visited to ICL factory and office for exploring the opportunities between India & Botswana.



ICL Global Presence @ CAC China

Indogulf Cropsciences Ltd., a leading manufacturer and exporter of agrochemicals, crop nutrients, technical, and formulations was awarded with the prestigious "Overseas Market Expansion Award 2018" by the Organizing Committee of 20th China International Agrochemical & Crop Protection Exhibition during 7 CAC Awards and CAC 20th Anniversary Awards Ceremony held in Shanghai on 4 March 2019. Indogulf received this award for second consecutive year.



1st International Business Partner Meet @ Ethiopia

ICL has launched 5 new products for various crops during 1st International Business Partner meet in Ethiopia.



ICL Global Presence @ Kenya



German Scientists Visit ICL Factory

German scientists collaborated with our technical team for synthesis of Spiromefisen technical, paving the way for commercial production of this important molecule.



ICL Global Presence @ Australia

DOMESTIC PACKAGING



INTERNATIONAL PACKAGING



OUR VALUE PROPOSITION

COMMITTED
TOWARDS
FARMER PROSPERITY



COMMITTED
TOWARDS
SOIL HEALTH



COMMITTED
TOWARDS
SUSTAINABILITY



COMMITTED
TOWARDS
FOOD SECURITY



This Handbook is not and should not constitute an offer for sale in territories/Countries where it is not permitted by any Law.

Ready to
EXPERIENCE OUR PRODUCTS
in your crop?

Contact us !



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