MANUFACTURERS OF
BIOFERTILIZERS.
BIOPESTICIDES.
ORGANIC FERTILIZERS.
PLANT GROWTH REGULATOR (PGR).

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IshVed Group Of Companies, Founded in 2014 is a privately owned agribusiness headquartered in Maharashtra, India. IshVed operates in Plant Tissue Culture, Vegetable & Field crop seeds, Organic Bio-fertilizer, Fresh Fruits & Vegetable Exports, Food Processing & Corporate Farming.

IshVed Group is one of the largest agri-business companies in India. We aim at providing customers all over the world latest agriculture products as well as knowledge to increase productivity and income. IshVed Group has spread its business in Asia, Middle East, Africa, Europe and USA.

**About IshVed**

We believe and continue to believe in sustainable growth of our planet, and would like to contribute in agriculture progress by delivering best in class planting materials, agricultural inputs to boost productivity and technical know-how to farming communities.

**Our Vision**

We believe and continue to believe in sustainable growth of our planet, and would like to contribute in agriculture progress by delivering best in class planting materials, agricultural inputs to boost productivity and technical know-how to farming communities.

**Our Mission**

Our mission is

➢ To enrich and satisfy farmers through the world best genetics to improve their income in a sustainable manner.
➢ Women empowerment & providing employment to rural families.
**Bio’ means ‘life’.** Therefore, biofertilizers are living organisms that enrich the nutrient quality of the soil. It refers to the use of microbes instead of chemicals to enhance the nutrition of the soil. As a result, it is also less harmful and does not cause pollution. This is what makes them so important to organic farming because they are completely environment friendly.

**What are Biofertilizers?**

“Biofertilizers are substances that contain microorganisms, which when added to the soil increase its fertility and promotes plant growth.”

**Biofertilizers** are the carrier based microbial inoculant containing live or latent efficient strain of microorganism to the tune of $10^5$ to $10^6$ cells per gram of carrier, responsible for fixation of atmospheric nitrogen, phosphate solubilization, organic matter decomposition & sulphur oxidation when applied to seed, soil or seedling. They enhance the crop growth, productivity and soil fertility.

Let’s take a look at the different microbes that are used as biofertilizers.
<table>
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<th><strong>Existing Product Line:</strong></th>
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| **Biofertilizers**        | **Rhizorich:** Mycorrhiza based fertilizers  
**PowerUp:** Microbes improving the availability of essential nutrients |
| **Crop Protection 1**     | **Biosilikate:** Biosilica, nutritional, insect repellent  
**Elicite:** CS/COS, nutritional and disease resistant |
| **Crop Protection 2**     | **NeemWizard:** Neem oil/Azadirachtin formulation  
**Karanj Jinn:** Karanj oil/Karanjin formulation |
| **Biostimulant**          | **Flowersense:** For vegetative growth of the plant  
**Arbolife:** For Flower and fruit setting |
| **Other bio-organic products** | **Super Wet:** Sticker, Spreader, Activator.  
**Drip Rid:** Biological drip cleaner |
| **Soil Nutritech Kit**    | **Brigade Nutri Kit:** Improves availability of nutrients from soil |
| **Upcoming Product Line:** | **Bio-Stimulants** | **Start Up:** For quick and fast plant growth  
**Rejuvenate:** For quality fruits |
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<tr>
<td><strong>Crop-Protection 3</strong></td>
<td><strong>HallMark:</strong> Protein rich, nutritional and disease resistant</td>
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| **Microbial consortia**  | **Bioclub Rootshield:** Complete root-care solution  
**Bioclub comporich:** For composting |
| **Plant growth regulators** | **X-factor GA:** Gibberellic acid-based formulation  
**X-factor TR:** Tricatanol based formulation |
| **Biopesticides**       | **Microbix:** *Trichoderma viridae, Trichoderma harzanium, Beauveria bassiana, Metarhizium anisopliae, Bacillus subtilis, Pseudomonas fluroscens, Ampelomyces quisqualis, Bacillus firmus.* |
| **Organic/Mineral fertilizers** | **Nutrifresh P:** Phosphorus fortified organic fertilizer  
**Nutrifresh K:** Potash derived from mollases.  
**Nutrifresh CMS:** CMS fortified organic fertilizers  
**Nutrifresh boost-up:** Fortified compost manure |
| **Organic nutrients**    | **Aminofresh:** Amino acid fortified |
| **Nutrikit**             | **Brigade soil care kit:** complete soil health care product |
| **Water soluble fertilizers** | **Aquasmart:** SOP, MOP, NOP, Calcium nitrate,  
Potassium schoenite,  
| **Chelated Micronutrients** | **NutriCh:** Chelated zinc and iron |
| **Pheromone traps & lures** | **Allure** |
Rhizorich is an organic manure, consisting of spores of Arbuscular Mycorrhiza Fungus (AMF), hyphae and fragments of fungus-infected roots. The use of Rhizorich helps in rapid establishment of a rich, strong and vigorous network of roots. Mycorrhizal hyphae absorb nutrients and moisture (water) from the soil and actively distribute it to the vesicular network of plants. This reduces the runoff of nutrients and the use of manure. Due to the good absorption of nutrients and water from the soil, there is a balanced growth of plants and increase in production.
Rhizorich is available in three variants –
1) Rhizorich Basic  2) Rhizorich Gr  3) Rhizorich Prime

**Rhizorich Basic**

**Active Ingredient:** Mycorrhiza spores, hyphae and infected root fragments.

**Carrier:** Vermiculite.

**Directions for use:**

**Soil Application:** 2 kg per acre (depending on the duration and stages of the crop cycle).

**Packing:** 1 kg.

**Shelf Life:** 2 years from date of manufacture.

**Rhizorich Gr**

**Active Ingredient:** Mycorrhiza spores, hyphae and infected root fragments.

**Carrier:** Bentonite with protein hydrolysate, humic salt, kelp extract.

**Directions for use:**

**Soil Application:** 4 kg per acre (depending on the duration and phases of the crop cycle).

**Packing:** 4 kg.

**Shelf Life:** 2 years from the date of manufacture.

**Rhizorich Prime**

**Active ingredient:**

Mycorrhiza spores, hyphae and infected root fragments

**Carrier:**

Protein hydrolysate, Potassium humate, Kelp extract, Chitosan / Chitosan oligosaccharide

**Directions for use:**

**Soil Application:**

250g. per acre (depending on the duration and phases of the crop cycle)

**Packing:** 250 g

**Shelf Life:**

2 years from the date of manufacture

These are all liquid organic fertilizers. These when applied to the soil or to modify planting material (e.g., seeds, tubers, etc.), provide nutrients to the crop from the environment and soil.

**PowerUp NPK**

PowerUp NPK provides nitrogen from the atmosphere and phosphorus and potash from the soil to crops. This includes phosphorous solubilizing bacteria, potash mobilizing bacteria, and selected strains of any one of the nitrogen stabilizing bacteria such as *Azotobacter* sp, *Azospirillum* sp, *Acetobacter* sp, *Rhizobium* sp.

**PowerUp Micron**

PowerUp Micron makes zinc, manganese, iron and silicon available to crops from soil. It contains selected strains of zinc, manganese, iron and silicon solubilizing bacteria.

**PowerUp Enzymes**

PowerUp enzymes make sulfur available to crops from soil and accelerates plant growth. These include sulfur solubilizing bacteria and selected strains of *Lactobacillus* sp.

**PowerUp P+**

PowerUp P+ provides phosphorus from the soil to crops. It contains selected strains of phosphorus solubilizing fungi.
Brigade – Benefits of Using Soil Nutri Kit

Plants have optimal availability of essential nutrients, including primary (nitrogen, phosphorus, potash), secondary (sulfur) and micronutrients (zinc, manganese, iron and silicon) as well as some micronutrients.

Crops treated with Soil Nutri Kit require 20–30% lesser chemical fertilizers and are more resistant to soil borne diseases.

Increases the ability of crops to fight stress and resist pathogens and boosts the plant’s immune system.

It also increases the activity of beneficial microorganisms in the soil, thereby improving many soil parameters and increases soil fertility.

Soil Nutri Kit is eco-friendly and suitable for traditional, sustainable and organic farming.

**Directions for use:**

All the components of Brigade – Soil Nutri Kit should be mixed with 200–400 kg of organic manure and applied near the roots of the plants or all the components should be mixed with sufficient water and applied by drip irrigation or drenching.

**Packing:** 1100ml

**Shelf life:** 1 year from date of manufacture
Biosilikate
Silica synthesized from biomass

Biosilikate is nano-silica (a highly appreciated micro-nutrient now-a-days) salt synthesized from biomass

**Benefits of spraying BioSilmate**

- Spraying of BioSilmate helps in formation of a thin layer of silicone on the cuticle. In addition to the hygroscopic properties, it forms a barrier on or around the leaf surface, thereby restricting the entry of fungi and making the leaf surface less tasty and abrasive to insects.
- Silica is absorbed and deposited in the cell walls, causing the cell walls to become more flexible and rigid, thus protecting the crop from possible infection. Plants tend to form polyphenolic compounds, which act as natural defenses against fungal diseases and moths.
- The respiratory rate of plants is reduced and the resistance of plants to drought and frost increases.
- The stem and roots are strengthened, the process of photosynthesis improves and thus the quality of the crop improves

**Directions for use:**

**Spraying:** 2–2.5 ml of Biosilikate per liter of water. If possible, apply only silikate (without dilution). If used in a mixture, add water and other products to the spray tank first and finally silmate. Avoid using silikate with inorganic fertilizers and highly acidic products. In fact, check compatibility before using.

**Packing:** 1 liter, 500 ml, 250 ml, 100 ml

**Shelf life:** Two years from date of manufacture
Elicite has a natural effect on the plant’s immune system, which enhances the plant’s resistance against pathogens and maintains plant health and appearance. Elicite stimulates the plant’s natural defense response, allowing the plant to

- Produce proteins resistant to pathogens.
- Increase the production of lignin around the infected area. The physical barrier of lignin inhibits the growth of pathogenic bacteria and prevents the spread of the disease to the surrounding normal tissue.
- Large amounts of phenol are produced around the infected area. Accumulated phenol inhibits the growth of pathogens. As a result, there is a significant reduction in the diseases caused by pathogenic fungi, bacteria, and viruses.

**Elicite - a growth booster**

Seed treatment accelerates seed germination, spraying helps in plant growth, as well as improves the quality of flowers and fruits. When sprayed on harvested vegetables, flowers, and fruits, it prevents them from rotting quickly thus increasing their shelf life.

**Active ingredient:** Chitosan and Chitosan Oligosaccharide

**Directions for use:**

**Spraying:** 2–2.5 ml Elicite per liter of water

**Packing:** 1 liter, 500 ml, 250 ml, 100 ml

**Shelf life:** Two years from date of manufacture
NeemWizard is neem oil, which is extracted from neem kernels by chilling process without the use of heat or solvents, so that all the nutrients and active substances of neem oil are retained in neem oil in their natural form and proportion. Spraying of NeemWizard keeps the plants grow healthy.

Neem oil’s natural tendency to protect against over two hundred species and many pathogens, including insecticides, nematodes and spiders, is the matrix of this product. The combined effect of more than a hundred active components contained in NeemWizard is greater than that of any single active ingredient. Insects and pathogens do not develop resistance to NeemWizard even after its continuous usage.

**Active ingredient:**
Cold-processed Neem oil

**Directions for use:**
**Spraying:**
2–2.5 ml Evoke per liter of water

**Packing:**
1 liter, 500 ml, 250 ml, 100 ml

**Shelf life:**
Two years from date of manufacture

Can be used alone or in combination with other insecticides or insecticides at the rate of 2–3 ml NeemWizard per liter of water. NeemWizard contains neem oil which is fortified with several bioactive components such as terpenes, steroids, alkaloids, flavanoids, glycosides Azadirachtin, Isonimoloniside, Nimonin, Salannin, Azardirone, Nimbecidine, Nimbinine, melantriol, margaric acid, B-cystosterol, Presin, venemic acid.
Karanj Jinn

Ancient Trick for Healthy Plants

Karanj Jinn is the oil of Karanja, which is extracted from the seeds of Karanja by chilling process without the use of heat or solvents, so that all the nutrients and active ingredients of Karanja oil are retained in Karanjrix in their natural form and proportion. Spraying Karanj Jinn keeps the plants healthy.

Karanj Jinn natural tendency to provide protection against over a hundred species of insects, including nematodes and spiders, is inherent in Karanj Jinn. The combined effect of the more than a hundred active components contained is greater than that of any single active ingredient. Tongues do not develop immunity to Karanj Jinn even after continuous use of Karanj Jinn.

Karanj Jinn also contains growth factors, mainly auxins, which are responsible for healthy growth of plants.

**Active ingredient:** Karanj oil extracted by cold process

**Directions for use:**
2 – 3 ml Karanj Jinn per liter of water, can be used alone or in combination with other insecticides or spider killers.

**Packing:** 1 liter, 500 ml, 250 ml, 100 ml.

**Shelf life:** Two years from date of manufacture.
The use of Boost is recommended for vegetative growth of the crop. Soil application of Flowersense improves the area around the roots (*rhizosphere*).

- Enhances root development.
- Fosters new shoots with better quality leaves and twigs increases.
- Improves internodal distance between branches improves and the stem becomes stronger.
- Improves stress tolerance and disease resistance of the crop.
- Increases availability and effectiveness of nutrients.
- Increases in the process of photosynthesis and metabolism.
- Increases shine, quality and shelf life of leafy vegetables.

**Active ingredient:**
Humic Acid Salts, Botanical L-Amino Acids, Biopolymers, Marine Nutrients, Vitamins and Other Growth Factors.

**Directions for use:**

**Spraying:** 1-1.5 ml Flowersense per 1 liter of water, at the growing stage of the crop.

**Application from the ground:** 200-250ml Boost per acre (by drip, flood irrigation or drenching)

**Packing:** 1 liter, 500 ml, 250 ml, 100 ml

**Shelf life:** Two years from date of manufacture

**Growth:** overall growth of crops, in production and quality

**Stimulation:** in metabolic activity

**Optimum:** nutrient absorption and functionality

**Conservation:** biotic and abiotic stress

**Improvement:** in soil fertility standards
Arbolife provides a significant vital energy which optimizes viz. development (better bloom), pollination, fertilization (optimum), fruit setting (excellent) by process of synthesis of metabolic intermediaries carried out by its key bio active compounds.

- The number of healthy shoots and flowers increases.
- Flower holding capacity increases, fruit and flower drop reduction.
- Increase in both the rate and quality of fruit holding, which increases the income.
- Improves stress tolerance and disease resistance of the crop.
- Increases the availability and effectiveness of nutrients.
- Improves the process of photosynthesis and metabolism.
- Improves the color, quality and shelf life of flowers.

**Active ingredient:** Fulvic acid salts, botanical, amino acids, polysaccharide, nutrients from marine algae, vitamins and other growth factors

**Directions for use:**

**Spraying:** 1 – 1.5 ml Arbolife per liter of water, at flowering stage of crop.

**Packing:** 1 liter, 500 ml, 250 ml, 100 ml.

**Shelf life:** Two years from date of manufacture

Growth in flowering, fruiting, production and quality.
Stimulation in metabolism.
Optimum nutrient absorption and functionality.
Conservation from biotic and abiotic stress.
Improvement in terms of soil fertility.
Super Wet

Sprayer, sticker, Activator.

Speads, stick, penetrates sprayed solution and enters a substance. Wet Plus is an ideal blend of non-ionic surfactant and organosilicon, combining the wetting attributes of non-ionic surfactant and exceptional surface tension reduction of organo silicon.

Wet Plus, when mixed with dispensing liquid – helps the liquid stick to the leaves, spreads the liquid quickly and evenly, helps it reach the inside of the leaf.

Due to the improvement in the efficiency of the spray, the amount of growth enhancer, insecticide, weed killer and soluble fertilizer is saved.

With the use of irrigation water, Wet Plus makes water available in more area.

**Active Ingredient:**
Organosilicon Surfactant, Non-Ionic Surfactant.

**Mode of use:**

**Spraying:**
Enhancer, Bio-stimulant, Insecticide.

**Soluble Fertilizer:**
5 – 7.5ml Wet plus per 15Ltr of water.

**Packing:**
1 Ltr, 500 ml, 250 ml, 100ml

**Shelf life:**
Two years from date of manufacture.

Spreader, better coverage, stickers, better effective, Rain Fastening Effect, Reduces Evaporation rate, more efficient.
Drip Rid
Clears Clogged Drip Lines

The salts, algae, silt and fungicides that come with the water form a blockage in the drip lines and then in the emitter, thereby reducing the rate of water discharge. Drip Rid resolves all these problems and restores the functioning of drip. Drip Rid is a product free of acids, chlorine compounds and other harmful chemicals. Therefore, Drip Rid can also be used in standing crops. When acidic products are used in standing crops, the pH around the roots may temporarily change, thereby reducing the absorption of nutrients. Drip Rid beneficial bacteria also help prevent harmful mold growth in driplines and around roots.

The use of Drip Rid does not harm any part of the drip system. Apart from this, it is friendly to crops, soil and environment.

**Active Ingredient**
Group of Beneficial Bacteria, Biopolyum, Vegetable Extracts.

**Directions for use:**
For one acre of land, use 1 liter of dripclear, during the regular irrigation schedule, into the drip system 10 to 15 minutes before the pump is turned off, so that the dripclear can reach all over the system. Leave it for 1 to 2 days. Thereafter, open the lateral end cap and flush the drip system with water. Close the lateral end cap again and start using the drip system. Apply 3 to 4 times depending on the severity of the blockage and the TDS of the water.

**Packing:** 5 Ltr, 1 Ltr.

**Shelf Life:** Two years from date of manufacture.