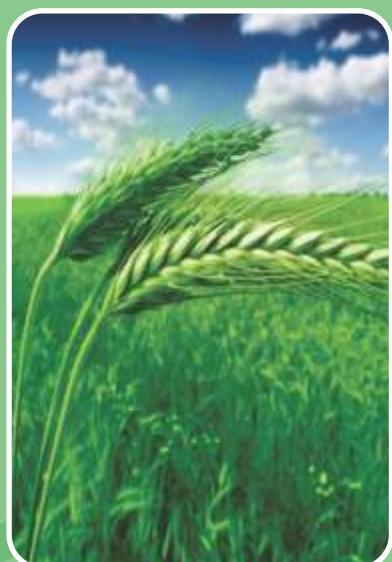
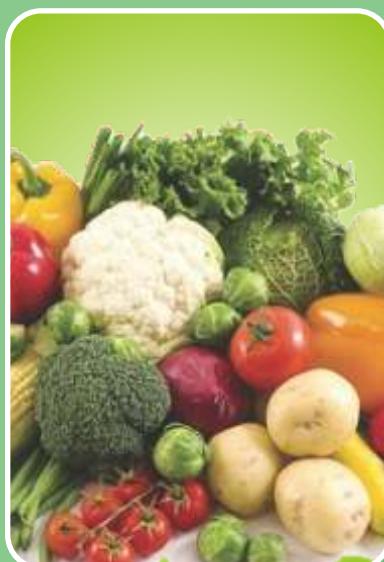




## HCM Agro Products Pvt. Ltd.



**PRODUCT CATALOG**

[www.hcmagroproducts.com](http://www.hcmagroproducts.com)



## About Us

It all started in the year 1999 with a small scale of agriculture product processing unit setting high standards of integrity and business ethics offering quality products to our customers. In a short span we earned a reputation of being a "fair business practices" company that helped to create value through business in an authentic way. This reputation and goodwill gave us the cutting edge to stand high amongst our counter parts in the business. Today, we have grown from a small business house to sizable unit having strengthened our product line with quality products.

Our aim is to answer the fundamental needs of the farmer and to add an everlasting smile on his face by offering right sustainable solutions to his problems. We are willing to spread awareness of plant growth remedies through nature's hidden capacity which will lead to prosperity in the living community.

We shall strive to secure resources that influence agriculture in achieving food security, better nutrition while restoring earth's health and joy for mankind.

"The achievements of an organization are the results of the combined effort of each individual"

The company board comprises of eminent and experienced individuals from diverse fields. The Board acts with autonomy and independence in exercising strategic supervision, discharging its fiduciary responsibilities, and in ensuring that the management observes the highest standards of ethics, transparency and disclosure. The team work with a clear and common purpose helping us conduct our agriculture inputs business operations successfully. The combined skills of its people and their passion for results act as the catalyst to continue success and we believe that our strong management team is crucial and dedicated in making this happen. We have established a strong foundation of integrity and compliance that helps to guide employees in making good, ethical business judgments and acting with integrity.



# Contents

● ORGANIC MANURE (Under FCO 1985)	05
● BIO-FERTILIZER (Under FCO 1985)	06
● SEAWEED EXTRACT	07
● POTASSIUM HUMATE	08
● SODIUM HUMATE POWDER	09
● HUMIC ACID	10
● BORON HUMATE	11
● AMINO ACID	12
● FULVIC ACID	13
● WATER SOLUBLE FILM	14
● XANTHAN GUM	15
● SILICON SPREADER	16
● WASTE DECOMPOSER	17
● LIST OF BIOFERTILIZERS	18

# ORGANIC MANURE

Organic Manure is an eco-friendly fertilizer , which helps in improving the quality & fertility of soil and hence make the produce healthy & nutritious. It enrich the soil with micro-organisms & restore the depleted nutrients of the soil. It provides the plant with nutrition, resistance against diseases and ability to combat worst climatic conditions.

## Benefits

- Very Cost effective.
- Improves quality of crop.
- Easy to spread and absorb.
- Eco friendly and non toxic.
- Supplies organic carbon to soil.
- Strengthens roots system of plants.
- Absorbs nitrogen from atmosphere.
- Improve soil quality by adding organic carbon.
- 100% Organic from natural agro mineral source.
- Suitable for all crops , plants ,vegetables and fruit trees.
- Organic carbon improves water & nutrients supply to plants.

## Specification

ITEM	STANDARD
Moisture % by wt. Max	25.0
Total organic carbon % by wt. Min.	14.0
Total N, P2O5, K2O nutrient should not be less than 3%	>3



Organic Manure Granules



# BIO-FERTILIZER

**Mycorrhizae** is a biofertilizer that helps in promotion of plant growth in an environment friendly manner as well as providing several other benefits to cultivation of plants. We offer commercial production of viable, healthy genetically pure & high quality mycorrhizae without contamination in sterile environment.

## Advantages:

- Enhance uptake of nutrient & water.
- Increase solubility of soil minerals.
- Improve soil texture and structure with reduced soil erosion.

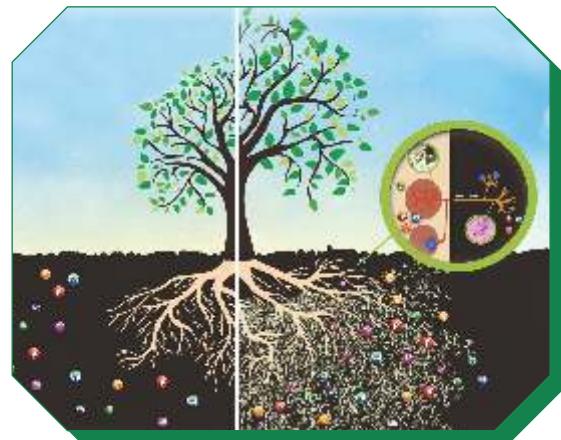
**Vermicompost** is the product of the composting process using various species of worms, usually red wiggler, white worms, and other earthworms, to create a mixture of decomposing vegetable or food waste.

## Advantages:

- Improves water holding capacity.
- Microbial activity in worm castings is 10 to 20 times higher than in the soil and organic matter that the worm ingests.
- Improves soil aeration.
- Attracts deep-burrowing earthworms already present in the soil.
- Enriches soil with micro-organisms.
- Improves root growth and structure.
- Enhances germination, plant growth, and crop yield.
- Enriches soil with micro-organisms.

## Specification

ITEM	STANDARD
Total viable propagules/gm of product, Min.	100/gm finished
pH	6.0 - 7.05
Moisture content percent maximum	8 - 12



**Mycorrhizae**



**Vermicompost**



# SEAWEED EXTRACT

The Seaweed Extract is natural organic concentrate that are extracted from marine plants. These natural and non-toxic extracts are rich in minor elements and natural growth hormones and trace elements like auxins, gibberellins and cytokinins. These trace elements help the plants in different ways and leads to faster growth. Seaweed has sixty trace minerals and ready to use nutrients including Nitrogen, Potassium, Phosphate, Alginic Acid & Magnesium.

## Application:

- Multi functioning organic fertilizer helps in rejuvenating and composting soil.
- Proven supplements to fertilizers.
- It is a naturally derived soil conditioner.
- Seaweed helps to keep the soil moist thus reducing the need to water.
- It helps to grow strong, healthy crops and resist fungus and disease.
- It doesn't blow away, seaweed (especially when it is stiff wet) won't blow away in a stiff wind.

**Packaging : In 20Kg., 25Kg., & can be customized.**

## Specification

Description of Test	Specification
Appearance	Flake
Alginic Acid	15 – 19%
Nitrogen (N)	2.0 – 5.0%
Phosphorus (P <sub>2</sub> O <sub>5</sub> )	2 – 3%
Potassium (K <sub>2</sub> O)	16.0 – 20.0%
Organic Matter	45 – 55%
Solubility in Water	100%
pH	6 – 10



Seaweed Extract Granules



Seaweed Extract Powder



Seaweed Extract Flakes



Seaweed Gel



# POTASSIUM HUMATE

Potassium Humate is extracted from natural leonardite. It is black powder, flake or crystal granular, soluble in water, which perfectly combine humic acids and nutrients. It improves the structure of soil, increase the buffering power of soil. Optimize N,P,K absorption by plants.

## Benefits

- Potassium is an important component of chlorophyll, speed up the photosynthesis.
- Enhance the resistance of crops such as cold, drought, pest, disease and toppling resistance.
- Enhance nutrient uptake by combining nutrients with humic acids and keep a well-balanced nutrition.
- Improve soil structure, increase ion exchange capacity of soil.
- Enhance resistance to stress for soil, especially reduce high salts in alkaline soils.
- Enhance nutrients uptake and increase the content of humus in soil.
- Prevent soil from contamination of heavy metallic ions as well as other harmful matters.
- Greatly improve the utilization of N & P.

ITEM	POTASSIUM HUMATE	SUPER POTASSIUM HUMATE
Organic Matter	60% - 65%	60% - 65%
Humic acid (dry basis)	60% - 65%	70% - 75%
Potassium (K <sub>2</sub> O)	8-10	10-12
pH value	8-10	9-11
Solubility	100% Min	100% Min

Packaging: 10Kg., 20Kg. & can be customized

## Application

Used as multi-functional compound fertilizer, combined with Nitrogen and Phosphorus, also used as basal fertilizer, top dressing, seed fertilizer, foliar fertilizer and spray fertilizer.



Potassium Humate Flakes



Potassium Humate Powder



Potassium Humate Crystal



# SODIUM HUMATE

Sodium is used in agriculture as fertilizer additive to increase the efficiency of fertilizers especially Nitrogen & Phosphorus based fertilizers. Sodium Humate has the prominent property to absorb toxins, which decides this product is naturally an important for animal health. It also can be used in Aquaculture.

## Benefits

- Increase physiological metabolism.
- Improves the immunity & metabolism of crops.
- Retain water and fight drought.
- Prevent corrosion of fruits.

## For Animal

- Promote metabolism, accelerate their growth and development.
- Improve meat quality, raise the yield of meat, eggs and milk.
- Make animal capillaries bright.
- Used as organic feed additive.
- It improves animals immune system, in such a way that a thin protective coating is formed on the animals intestinal system.

## For industry

- Petroleum drilling fluid decreasing and filtering agent.
- Boiler anti-scaling agent and water quality stabilizer.
- Cementing agent for pulverized coal shaping.
- Ceramic pug additive and dispersing agent.
- Ore dressing agent.

Packaging : 25Kg & can be customized.

## Specification

### Solid form-Powder

ITEM	STANDARD
Solubility	90% - 95% min
Humic acid (dry basis)	50% - 60%
pH Value	4-6
Appearance	Powder, Flake
Organic Matter	60% Min

Keep in Dry Environment



Humic Acid Flakes



Humic Acid powder



# HUMIC ACID

It is a powder or granular form of leonardite/Lignite & weathered coal . Humic Acid is basic raw material for manufacturers in agricultural and industrial products and it is a permanent humic substance and can not be degraded that fast by the microorganisms in the soil and increase fertility.

## Benefits

- Prevent Fertilizer run off, keep effective of fertilizer.
- Modulate environment of microorganisms.
- Improve water holding capacity and aeration.
- Increase the fertility of soil.
- Increase soil aggregate structure.
- Prevent soil acidification.
- Reduce salinity of soil.
- Adjust soil pH value.
- Enhance resilience of fighting cold, drought, insect and lodging.
- Improve tensility of root, makes plant absorb better.
- Enhance crop physiological activity.

**Packaging : 20Kg. & can be customized**

## Specification

Powder/ Flakes/ Granules

ITEM	STANDARD
Organic Matter	$\geq 60\%$
Humic acid (dry basis)	70-80%
Moisture	$\leq 20\%$
Particle size	Powder 100 mesh
Solubility	Insoluble



Humic Acid Flakes



Humic Acid Granules



Humic Acid powder

## Application

- **Agriculture and Forestry:** Organic fertilizer, used alone in Turfgrass; Compound with other fertilizers to produce N,P,K fertilizer, raw material of plant nutrition liquid.
- Agents of pesticides, soil and stockbreeding etc.
- **Building and construction:** Concrete retarder, Sewage proposal, Erosion proof and scale remover.
- **Oil field services:** Oil drilling fluid, Fluid loss agent, Anti collapse agent, etc.



# BORON HUMATE

Boron is an essential element for plants development, growth, crop yielding & seed development. It helps with the transfer of water & nutrition in plants. It contains rich humic acid and organic boron, which is an organic compound & microbial stimulator.

## Benefits

- Boron is compounded into a humate colloid to create a slow-release fertilizer.
- Boron increases calcium efficiency and like calcium, is involved in cell wall strength and is important for good root development.
- Enhance plant's anti-disease capabilities.
- Accelerate flower bud differentiation.
- Increase fruit livability, especially to beans, fruits or oil-bearing crops.
- Boron plays a critical role during the pollination stage of the reproduction process.
- Unlike traditional boron sources, this product can be safely included with seed.

Packaging : 25 Kg. & can be customized

## Specification

ITEM	STANDARD
Humic acid (dry basis)	50% - 60%min
B <sub>2</sub> O <sub>3</sub> (dry basis)	10% -15% min
pH value	8-10
Appearance	Powder / granule



Boron Humate powder



# AMINO ACID

Amino acid is a Bio-organic nutritional product derived from vegetable source (SOYA) required for plant growth promotion and for higher yields. It promotes hormonal activity and induces their synthesis resulting into flowering and fruit setting. It also reduces the flower and fruit drop caused by hormonal imbalance. It enhances nutritional uptake and their utilization, which improves the color, size, luster and taste of fruits. It also improves keeping quality. It is an ideal product to resist from adverse conditions.

## Benefits

- Stimulates plant growth and increases the output of plants.
- Improve the quality of product & also promotes the development of root & shoots.
- A good supplementary nutrilizers to N,P,K fertilizer & pesticides.

## Specification

ITEM	STANDARD		
	50 - 55%	80 - 85%	90 - 95%
Appearance	White	Cream powder	Off white to yellow cream
Total Protein	50 - 55%	80 - 85%	90 - 95%
Total Nitrogen	10 - 11%	12 - 13%	15 - 16%
pH	3.5 - 5.5	6 - 7	6 - 7
Loss on Drying	4 - 5%	4 - 5%	3 - 3.5%
Odour	Protein odour	Protein odour	Protein odour
Water Solubility	100%	100%	100%



Amino Acid powder



Amino Acid powder



# FULVIC ACID

Fulvic Acid is important for plants to obtain their nutrition from soil. Fulvic Acid is created by soil based microorganism.

## Benefits

- Chelate with plant nutrients to improve their uptake by plants, and reduce their immobilisation in the soil.
- Quicker seed germination and faster root and shoot growth.
- Improve moisture retention in plants and reduce moisture stress.
- Prevent and cure the plant pathema.
- Enhance the uptake of available nutrition.
- Improve the function of fertilizer and pesticides.
- Promote residue decomposition.
- Enhance plant germination and growth.
- Provide valuable source of carbon for soil microbes.

Packaging : In 20 Kg., 25Kg., & can be customized.

## Specification

ITEM	STANDARD
FAS (dry basis)	70% - 80%min
Water soluble (dry basis)	95% - 100%min
Moisture	10%max
PH	5.0-6.0
Appearance	Brown/ Black Powder/ Flake



Fulvic Acid powder



# WATER-SOLUBLE PVA FILM

PVA film with properties of excellent gas barrier, water-soluble and biodegradable, has become one of the most successful eco-friendly materials in recent years. Being universally recognized by environmental protection authorities and public users, PVA film is more and more widely used in various application, for example, packaging for pesticides, dyestuff, cleanser, detergent and other chemicals ; biodegradable packaging film for infection control and medical disposal; embroidery underlay and releasing.

## Eco – Friendly

PVA film is a kind of 'Green' packaging material. It is verified by microorganism test that PVA is non-toxic and does not restrain from the growth of microorganism and can be bio degraded completely. Once PVA dissolve in water, specific microorganism will cause it to degrade. When being treated with sludge, PVA solution will be decomposed into water carbon dioxide.

## Water solubility

PVA film has excellent water solubility and is able dissolve in different water temperatures and at different solving pace.

## WATER SOLUBLE

## PRODUCTS COLLECTION

### Good gas barrier property

PVA film has an excellent gas barrier to different gas elements e.g. oxygen, nitrogen, hydrogen, argon, carbonic acid gas etc. Except moisture and NH<sub>3</sub>. The gas barrier property makes PVA an excellent preservation packaging for the food by keeping the freshness.

### Mold-releasing property

As PVA film is separated easily from hydrophobic plastic and released easily from various organic materials that have a little polarity. PVA film has been epoxy resin or other thermosetting resin.

### Good antistatic property

PVA film is antistatic and excellent for electric products packaging.

### Resistance to oil and organic solvents

PVA film resists animal oils vegetable oils mineral oils, fats, organic solvent and hydrocarbon to penetrate and is excellent packaging for organic solvents and oily products.

### Water soluble packaging

PVA film has good water solubility and it can dissolve at different temperatures with different dissolving pace.

PVA film has been widely used in the following areas:

### Water-soluble packaging bag of fertilizer and pesticide

Chemicals used in agriculture are usually highly toxic and cause severe pollution, endanger to health. Therefore people have been paying more and more attention to the materials of agricultural packaging. As PVA packaging film and beg have unique physical property and bio degradability, they have been more and more popularly used in the packaging of fertilizer and pesticides in recent years.



# XANTHAN GUM

Xanthan Gum is a high molecular weight exocellular polysaccharide derived from the bacterium Xanthomonas campestris using a natural, aerobic fermentation process. The process is conducted in a sterile environment where the pH, oxygen content and temperature are rigorously controlled. After fermentation is complete, the broth is sterilized and the gum is recovered by precipitation with isopropyl alcohol, then dried, milled and packaged under aseptic conditions.

## Application:

- Minimized pumping friction in lime, freshwater and saltwater muds.
- Maximized drill bit penetration.
- Accelerated drilling rates in low viscosity/high shear conditions.
- Efficient suspension/solids transport in high viscosity/low shear conditions.
- Decreased solids buildup in drilling fluids.
- Handling high gravel concentrations.
- High viscosity at low concentrations.
- Stabilization of hole-cleaning fluids.
- Decreased damage to oil formation.
- Decreased maintenance expense.
- Lower total cost of operation.



## Specification

CHARACTERSTICS	SPECIFICATION
Appearance	Cream-White
Viscosity 1% Solution in 1 % KCL	13200 -1800 cps
pH 1% Solution	6.0 – 8.0
Moisture	Max 13%
Ash	Max 13%
Particle Size	Min 95 % through 200 mesh
V1/V2	1.02 – 1.45
Pyruvic Acid	Min 1.5 %
Heavy Metal	Max 20 ppm
Lead	Max 2 ppm
Arsenic	Max 3 ppm
Isopropyl Alcohol	Max 500 ppm
Sincerity (purity or Assay)	92 – 108 %
Total Plate Count	Not more than 500 cfu/g
Yeast/Moulds	Not more than 500 cfu/g
E.coli	Absent / 25g



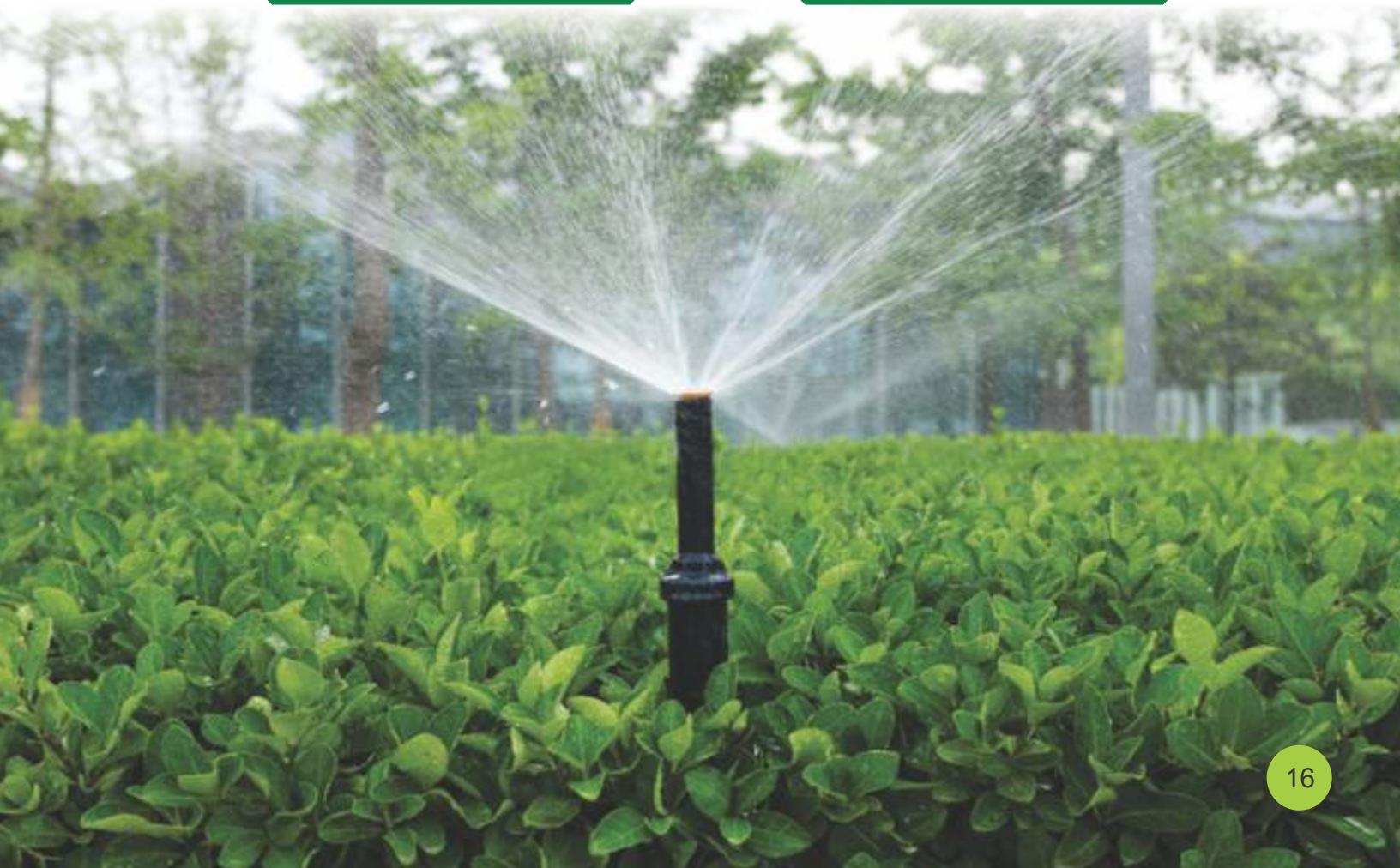
# SILICON SPREADER

Silicon Spreader is a super wetting and agriculture spreading Agent, which have low molecular weight nonionic surfactant, developed to improve the wetting, spreading and penetration of agriculture chemicals.

Our offered Silicon Spreader is processed by our experienced professionals using optimum quality . Chemical compounds and progressive technology in adherance with norms.

## Advantages

- Facilitate uptake of chemicals into the plant tissue.
- Easy dispersion in aqueous systems.
- Produces very rapid wetting and spreading on hard to wet surface such as waxy leaves.
- Enhance the performance of agricultural chemicals and plant growth regulator.
- It can be used as formulation ingredient in pesticide products, or as tank-mix adjuvant for foliar applied chemicals.



# WASTE DECOMPOSER

Waste Decomposer works as biofertilizer, bio-control and as well as soil health reviver . It is used for quick composting from organic waste, soil health improvement and as plant protection agent. It is a consortium of micro organism extracted from desi cow dung. This product support organic revolution and gives enough credibility and strength to the motive of chemical free agricultural practices.

## Advantages of Waste Decomposer:

- Foliar Spray
- Drip Irrigation
- In Situ Composting of Crop Residue
- Seed treatment
- Pest Controls
- Pathogen Removal

## How to Use

- Mix 2 kg of jaggery 200 liter of water in a container and stir well.
- Open the bottle and pour the contents of bottle into the solution (avoid direct contact of contents with hands)
- Stir the contents of the container and cover it with a paper/cardboard stir it daily once within 4 days the material is ready.



## Technical Know How

Supplied by:

National Centre of Organic Farming  
(A Govt. of India Enterprises)

Authorised Waste Decomposer Manufacturer:

**HCM Agro Products Private Limited**

Address : RR-29, 1st Floor, Mianwali Nagar,  
Paschim Vihar, New Delhi - 110087

Mob.: 9811516882 & 9811846882

Email : hcmagroharyana@gmail.com

Link :-<https://www.youtube.com/watch?v=Vsbi0w-Ebxg>



# **LIST OF BIOFERTILIZERS**

**Rhizobium**

**Azotobacter**

**Azospirillum**

**Phosphate Solubilising Bacteria (PSB)**

**Mycorrhizal Biofertilizer**

**Potassium Mobilizing Biofertilizer (KMB)**

**Zinc Solubilizing Biofertilizer (ZSB)**

**Acetobacter**

**Carrier Based Consortia**

**Liquid Consortia**

**Phosphate Solubilizing Fungal Bio Fertilizer**





## HCM Agro Products Pvt. Ltd.

**Registered Office :** RR-29, 1st Floor, Mianwali Nagar, Paschim Vihar, New Delhi-110087

**Unit-1 :** 1/18, Kirari Road, Near Bhalla Factory, Nangloi, New Delhi-110041

**Unit-2 :** 5 K.M. Stone, Beri Dighal Road, Sampla, Distt-Rohtak, Haryana-124501

**Phone No.:** 011-25267064, 25260437

**E-mail:** info@hcmagroproducts.com

**www.hcmagroproducts.com**