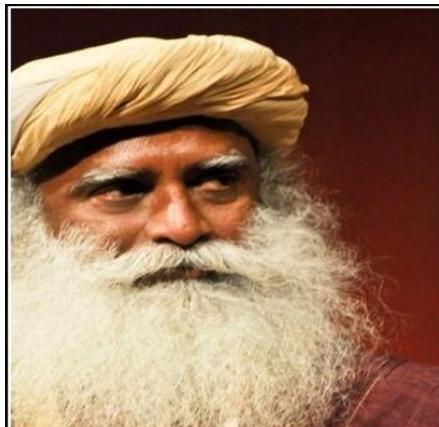


KHUBA SOIL CONDITIONERS

We are a in house research-based, knowledge-intensive and innovation driven that is pioneering solutions to challenges throughout the value chain in agriculture. To achieve Sustainable growth, for a resource-efficient, greener and more vibrant farming communities.

Man made fertilizers (non-organic) are concentrated and quick acting. Khuba Soil conditioners release nutrients slowly and usually contain many other trace elements that plants may need and which are not found in most chemical formulation.

There are several organic fertilizer benefits, some purely altruistic, others much more self-interested. First of all, most inorganic fertilizers provide only that well-known trio, nitrogen (N), phosphorus (P), and potassium (K). These three, known as the macro-nutrients, are indeed required in greater quantity than any others, but they are only three of the thirteen nutrients plants need. The three chemicals that qualify as secondary nutrients, calcium, sulfur, and magnesium are generally ignored, as are the trace nutrients, boron, chlorine, manganese, iron, zinc, copper, etc. While these are needed in far smaller quantities than the macro-nutrients, they are still essential.



With wrong farming methods, we turn fertile land into desert. Unless we go back to organic farming and save the soil, there is no future.

— Jaggi Vasudev —

BENEFITS

Khuba Soil Conditioners includes broad and diverse formulations of products that provide plants with nutrients and/or improve organic matter in the soil. They are applied to plants and/or soils to improve soil fertility, plant vigour, produce quality and yield. Our products can be used in both organic and conventional agriculture.

Khuba Soil Conditioners include three specific product categories: Natural nutrients, Natural mineral fertilizers and soil improvers.

Khuba Soil Conditioners main function is to provide nutrients under organic forms from natural, mineral and organic materials.

Khuba Soil Conditioners are a complex conditioner cum fertilizer obtained by industrial co-formulation of one or more inorganic fertilizers with one or more organic fertilizers and/or organic soil improvers into powder forms.

Khuba Soil Conditioners is also a soil improver, whose main function is to maintain or increase the soil organic matter content.

HOW DO THEY WORK & WHAT DO THEY DO ?

The use of **Khuba Soil Conditioners** in sustainable agriculture benefits farmers, growers, consumers and the environment in many ways. As empirically demonstrated, organic-based fertilizers help to:

Boost both nutrient efficiency and organic matter content in the soil.

Cost effective.

Nature & Human friendly.

Nurture the soil with organic matter that reduces dependency on chemical inputs.

Restore and maintain soil fertility to nurture plant growth.

Restores the depleted vitamin and mineral content of soil.

Enhance the biological activity and biodiversity of soils.

Enhance the quality attributes of produce as well as yield.

Improve the efficiency of nutrient use to produce more robust crops.

Facilitate the slow release of nutrients in response to the dynamic needs of plants.

Boost the efficiency of water use to render crops more resilient and drought-resistant.

Reduce the impact of farming and safeguard ecosystems by minimizing leaching.

Enhance crop resistance to erosion by improving the soil's organic matter content.

Improve the efficiency of resource use by incorporating natural raw materials.

Reduces soil poisoning caused due to excessive application of pesticides, weedicide.

Even application to all the plants in the farm because of the large surface area of the soil conditioner.

Safe to apply and use.

No surfaces run off due to excessive rain or winds. As it locks on to the soil.

Requirement of soil conditioner is reduced upon second & third applications and no need of any additional enrichment to farm is required.

Enriches soil with bio flora & fauna, reduces soil born / fungal diseases & gives higher yield.

Do not have effect on the plants at time of stress in the event of excessive heat or water logging or cold seasons; whereas chemical fertilizers need controlled weather conditions for the proper intake of the nutrients, which is not possible.

Beneficial effects on Long and short term effects for plant grown including beneficial higher yield in spite of variations in the surrounding weather conditions which is beyond human control.

Healthy plants yield high quality produce, which have extended shelf life.

DATA SHEET

KHUBA Soil Conditioner is a fine, reddish to creamish powder showing a porous inner structure which holds all necessary Micro and Macro nutrients suitable for agriculture & horticulture applications.

Our Soil Conditioner is carefully crafted with Macro and Micro nutrients of which some are listed below:

Macro Nutrients: Phosphorus, Potassium, Calcium, Magnesium, Sulfur, Humic Acid,

Micro Nutrients: Boron, Manganese, Zinc, Iron, Fulvic Acid, Copper (optional)

All the nutrients are carefully adjusted in the soil conditioner to match the soil requirements to grow grains, pulses and oil seeds. It is also suitable for Horticulture application. All the nutrients are calibrated in a dynamic way such that there is no elemental poisoning from the nutrients.

Particle size distribution

Our Soil conditioner being fine in nature adheres to the top soil and locks all the nutrients within the soil and prevent surface run off due to heavy rains or wind. The product is of about 75 to 100 micron specifically designed for better intake by the plants.

Usage:

To be applied in dry form on top soils. It can be used either before or after sowing to obtain maximum benefits. We recommend 200 kg per acre for the first year and reduce subsequently for the corresponding crops to 150kg or 100 kg depending on the need of the farm & crop.

COMPARISON.

Application	Chemical fertilizers	Khuba Soil conditioner
Activity / life span	Short period	Very long period
Effect in event of heavy rains	Nullifies	Minimal changes
Effect of Heat	Negative effect of plant	No effect on plant
Nutrient Uptake by plant	Either use or discard	Easily available anytime
Nutrient availability	Only for short period	Available through out
Nitrogen	Either use or discard	Available through out
Plant strength	Strong only when applied	Strong sustained strength
Plant fatigue	Variations due to availability	Constant strength available
Nitrogen	Over supply leads to plant softening	Constant supply
Over supply of Nitrogen	Vulnerable to pest attack	Not vulnerable
Over supply of Nitrogen	Vulnerable to diseases	Not Vulnerable
Undersupply of Nitrogen	Plant fatigue lowers growth	Constant availability
Variation of Nitrogen	Lower plant strength	Constant growth
Variation of Nitrogen	Final yield effected	Not effected
Soil Organic matter	Reduced	Not reduced
Soil organic matter reduction	Lower yields	Constant yield
Organic Matter	Not replenished	Constantly replenished

Organic Matter long term effect	Looses fertility	Gains fertility
Colonization of plant roots with mycorrhizae	Reduced	Enhanced
Exchange Capacity of nutrients	Reduced	Enhanced
Balanced nutrient supply	Erratic	Balanced
Biological Activity	Reduced	Enhanced leading to improved mobilization of nutrients
Phosphorus	Intake is erratic	Enhances colonization of mycorrhizae, which improves P supply to plant
Soil Structure	Not enhanced	Enhanced leading to better root growth
Water retention	Not enhanced	Enhanced
Buffering Acidity	No	Buffers acidity
Buffering Alkalinity	No	Buffers Alkalinity
Micro nutrients	Not available	Enhances intake
Micro nutrients retention in soil	No	Yes
Micro organism	Does not sustain	Sustains and enhances
Earth worm	Does not sustain	Sustains and enhances
Soil borne diseases	Does not help	Minimizes
Air borne diseases	Does not help	Minimizes
Ground contamination	High	No effect
Water contamination	Very high	No effect
Ingestion (If eaten by animals)	Toxic	Non Toxic
Nutrient release	Inconsistent	Consistent
Cost	High	Low
Long term effect	Soil loses fertility	Soil fertility enhanced
Plant growth	Variable	Constant
Change in weather	Can be disastrous	Minimal effect
Stunted growth	Possible	Minimal effect
Yield of desired product	Subjected to variation	Constant
Quality of yield	Average	High
Life span of Produce	Average	Extended

Details of application on actual fields by various farmers on many different farm produce are available on YOUTUBE : Type Khuba Soil Conditioner or follow the link below:-

<https://www.youtube.com/channel/UC0DdQ61hgsKzIRY3GdyPqTA>

The contact details of the end users / farmers are also given for you to have first hand information to help you better understand the benefits of using our products.

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