



Use of VAM as Biofertilizer

VAM (Vesicular arbuscular Mycorrhiza)

Many of the graminaceous and leguminous plants harbour VAM. The VAM fungi are intercellular and obligate endosymbionts and contain special structures which help in the transfer of nutrients from soil into the root system. The fungi are mass produced only in the presence of living roots.

- **Use of VAM Biofertilizer**

The inoculums should be applied 2-3 cm below the soil at the time of sowing. The seeds are sown at cuttings planted just above the VAM inoculum So that the roots may come in contact with the inoculums and cause infection. Bulk inoculum of 100g is sufficient for one m² area.

- **Advantages of VAM**

- 1) It improves plant water use efficiency.
- 2) Facilitates nutrient absorption from the soil solution (particularly phosphorus).
- 3) Helps in plant establishment, growth and soil aggregation.
- 4) Provides better resistance during dry periods.
- 5) Improves micro-nutrient status and plant health.
- 6) Increase productivity.

Mode of action symbiosis: Mycorrhizae are present universally in soil, Mycorrhizae are obligate and saprophytic in nature which requires a living host for its survival. The mycorrhizae start associating symbiotically with root of the plants.

Recommended Crops: VAM is suitable for application on cereals, Millets, Pulses, Oilseeds, Fiber Crops, Sugar Crops, Forage Crops, Plantation crops, Vegetables, Fruits, Spices, Flowers, Medicinal crops, Aromatic Crops, Orchards and Ornamentals.

Mode of Application

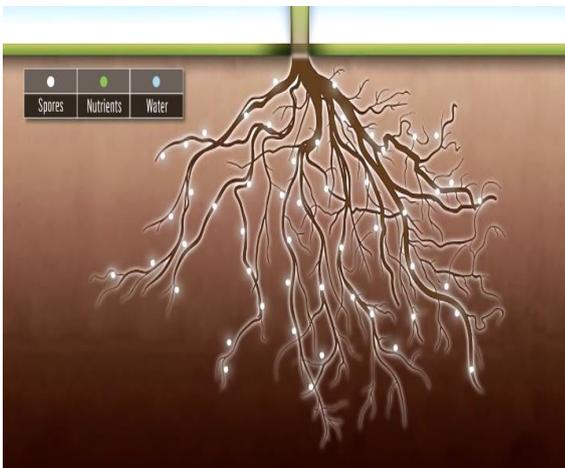
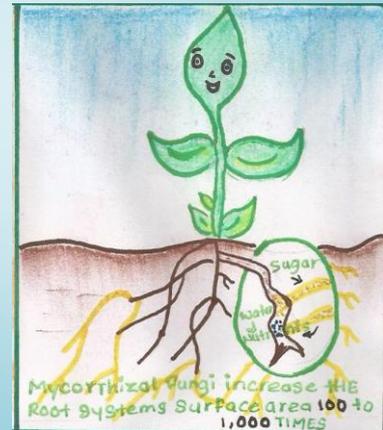
Soil application: Mix 3-5 Kg/acre of VAM with compost and apply to an acre of soil. Apply at a depth of 2-3 cms.

WHY DO YOUR PLANTS NEED

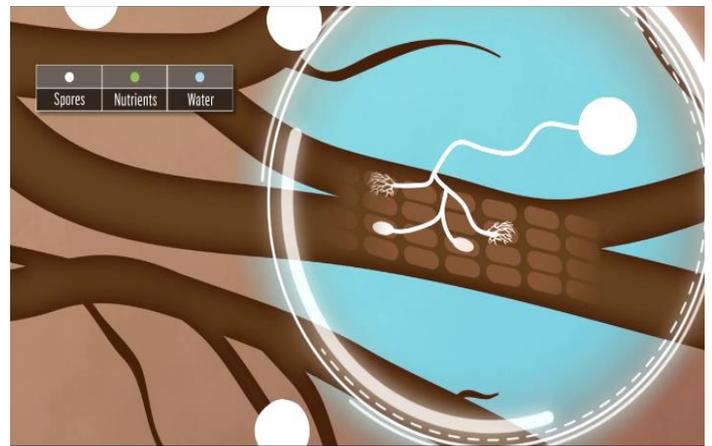
MYCORRHIZAE FUNGI?

Mycorrhizae Funfi are beneficial and form a symbiotic relationship with plant roots.

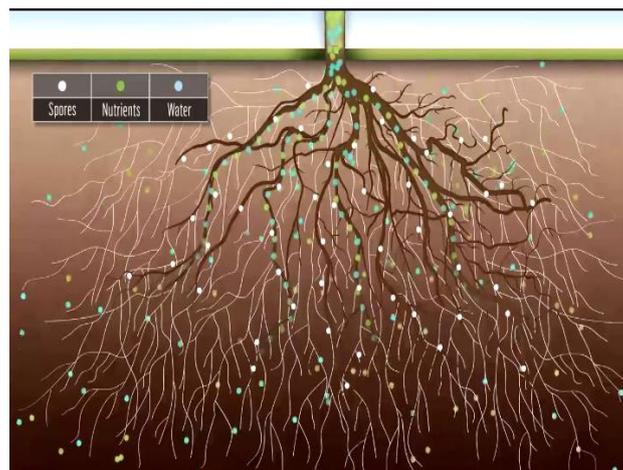
The fungi receives sugar from the root in exchange, it absorbs and sends soil nutrient and water back to the plant. When those nutrients and water are depleted, the fungi simply reaches further into the soil for more.



Development of Hyphae



Penetration of VAM fungi into root system



Nutrient uptake by plants

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