



CEM-Plus

CEM-Plus is a Concentrate preparation of effective microorganisms. CEM-Plus is a combination of useful regenerative natural microbes that help build stable aggregate and soil structure, reducing resulting soil erosion. CEM-Plus increases the natural resistance of soil and plants and considerably improves the quality and fertility of soil as well as growth and quality of crops.

CEM-Plus is very beneficial for following applications:

- **Agriculture:** Reduces dependency on fertilizers and pesticides.
- **Bioremediation:** Restores polluted or unfertile soil.
- **Environmental:** Treatment of effluents and municipal and other solid waste.

The microbes in CEM-Plus produce bioactive substances such as vitamins, hormones, enzymes, antioxidants and antibiotics that can directly or indirectly enhance plant growth and protection.

Agricultural Uses of CEM-Plus:

For application to soils, lawns, crops, ornamentals and all other horticulture.

Environmental Management of CEM-Plus:

For decomposition of Municipal solid waste, organic waste such as farm yard manure, press mud, on-farm waste, etc.

Directions:

Mix 1 litre of CEM-Plus with 18 litres of 2 Kg Jaggery/Molasses in a tightly closed container. Stir the solution once a day for 3-5 days. This will activate the microbes in CEM-Plus. Apply this

activation CEM-Plus solution per acre of farming or per ton of organics / MSW waste for decomposing.

CEM-Plus can be applied through spraying or drenching or drip irrigation system. It can also be applied through broadcasting.

CEM-Plus consists of FIVE families of micro-organisms:

- **Lactic Acid Bacteria:** Suppresses harmful micro-organisms and encourages quick breakdown of organic substances. In addition, they can suppress the reduction of Fusarium, a harmful fungus.
- **Yeasts:** Manufacture anti-microbial and useful substances for plant growth.
- **Actinomycetes:** Brings about fermentation and break down of organic substance quickly. They suppress smell and prevents damage caused by harmful insects.
- **Photosynthetic Bacteria:** These bacteria play a leading role in the activity of CEM-Plus. They synthesize useful substance for root secretion, organic matter and/or harmful gases by using sunlight. They contribute to better photosynthesis and nitrogen binding.
- **Fungi:** Suppresses harmful fungi and bacteria.

Active ingredients in CEM-Plus:

Lactobacillus plantarum, Lactobacillus casei, Lactobacillus fermentum, Lactobacillus delbrueckii, Bacillus subtilis, Bacillus megaterium, Saccharmyces cerevisiae, Rhodopsuedomonas palustris, trichoderma reesei, Aspergillus niger.

Storage:

Do not store CEM-Plus in direct sunlight. Store in a closed container at room temperature. Do not freeze.

Minimum Microbial Count: 2×10^9 CFU/ml

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