



UPGRADE

THE BIO-BULLETS FOR
BIOREMEDIATION



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about the MANUFACTURERS

Clout Bio Innovators is headed by a group of experienced researchers and entrepreneurs specialised in manufacturing microbial consortium and herbaceuticals. The company is located at Thiruvananthapuram, Kerala and have a well equipped R & D facility for systematic functioning, manufacturing and QC.

We are manufacturers of specially formulated microbial solutions for bioremediation and decomposition of wastes from houses and various types of industries. We have developed a natural medium for the long-term growth of bacteria and to promote high enzyme production. Our EM solution and consortia comprise of bacteria and fungi that produce amylase, protease, lipase, polyphenol oxidase, laccase, urease and cellulase.



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UPGRADE-I

A complete solution for high volume liquid waste treatment plants (STP/ETP). UPGRADE 1 is product of enriched microbial mass that produce hydrolytic enzymes that can degrade common types of water contaminants and detoxifies it.

Benefits of UPGRADE I

- High count of beneficial microbes (Aerobic/facultative anaerobic load)
- High enzyme production
- Reduce BOD and COD
- Reduce foul smell
- Dye decolourising bacteria

INSTRUCTIONS TO USE

- The EM solution is prepared to use directly to plants.
- 1L/10 KLD for one week
- Ensure proper aeration and flocculation
- The stock should be mixed well before addition



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UPGRADE-III

We present you an advanced Enriched Microorganism (EM) solutions for quick and effective decomposition of bio-wastes from home and have a magic formula for its usage as bio-fertilizer. The solution can decompose all types of food wastes without smell.

Upgrade III is formulated with bacterial producing enzymes for degrading food waste (avoid pickles and acidic wastes), vegetable waste, fats and fruits (except citrus).

We offer an advantage of having specialized bacteria in Upgrade III that promote plant growth while using the compost as biofertiliser.

INSTRUCTIONS TO USE

- The 500 ml EM solution is enough to degrade 150 Kg of food waste.
- Put food waste over cocopeat. Add a few drops of EM solution (10-15 ml). Invert the bottle 2-3 times before use.
- Allow proper aeration
- Close the cap and store bottle in warm place (30-35°C)



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advantages to **UPGRADE**

- Purely eco-friendly and assured sustainability
- Extends additional support in functioning of treatment plants
- Organisms are characterised through molecular phylogenetic screening
- Consortia are customised through user-defined process
- Proven to be non-pathogenic.



get in touch



manufactured by

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