

# Zytonic<sup>®</sup> BioDigester

## Bio-digester for Composting

**Zytonic**<sup>®</sup>

**Sustainable farming for nutritious, safe and affordable food for all**



The digestion process of FYM is long and produces heat with the need of watering at regular intervals. A lot of carbon mass gets converted to carbon dioxide due to the bacterial activity of degradation resulting in loss of soil organic matter.

**Zytonic BioDigester** is the next generation technology to address these problems, which is based on a fungal bio-digestion mechanism to allow high levels of biomass conversion to humus and humic substances. These humates are stable forms of organic carbon and add to the soil CEC (Cation exchange capacity) to boost nutrient uptake. Zytonic BioDigester inoculates FYM with mycorrhiza fungal species. It also enhances water holding capacity and aeration to speed up bio-digestion. This promotes the exponential growth of the beneficial aerobic soil biological population (bacteria, fungi-mycorrhizae, protozoa, nematodes, etc.).

Zytonic BioDigester led bio-digestion enhances blackness (humus formation) and improves the availability of nitrogen, potassium, and other important micronutrients such as magnesium, zinc, boron, copper, manganese, iron etc. It also ensures higher residual organic content.

### **Benefits of fungal enriched & bio-digested Manure (Farm Yard Manure):**

- Zytonic BioDigester converts animal dung, crop and fodder residues into humus, rich manure with blackish look. The manure has earthy odour. This in turn makes the resulting manure richer in nutrients with the ability to enhance soil fertility.
- An adequate amount of moisture and air increases the biological population by 300 to 5,000 times, thereby recycling organic matter within the soil.
- Zytonic BioDigester enriched manure is easy to crumble and has adequate moisture to keep it soft. It can be spread easily at the rate of 500-1000 kg per acre.



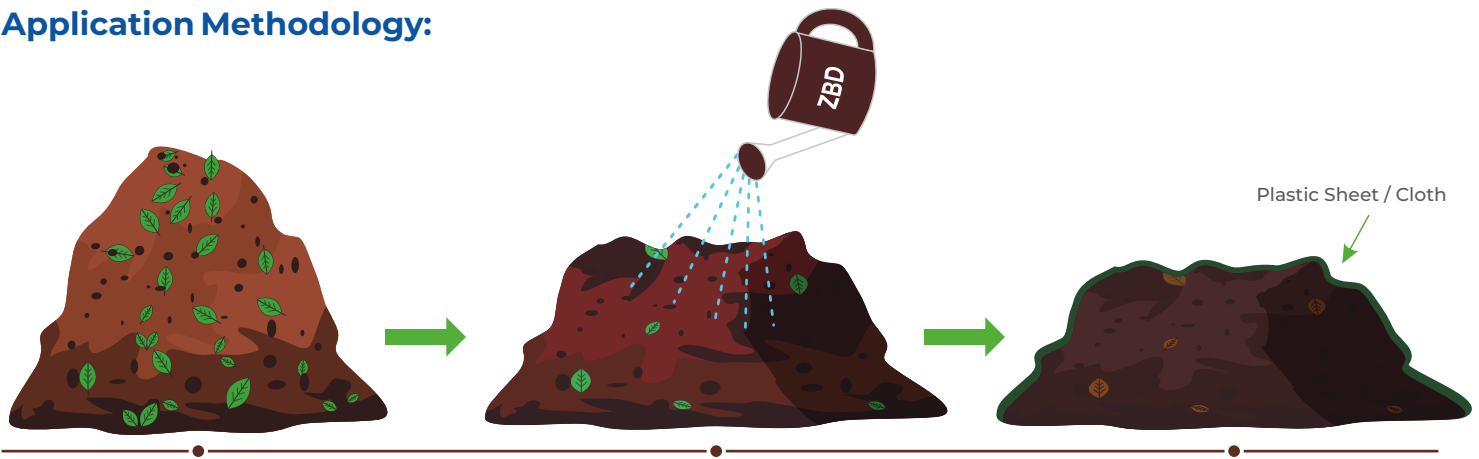
**Available in 2 kg pack**

## Dosage and Application

- Estimated FYM production = Approx. 10-12 MT per year per animal

**Zytonic BioDigester Dosage:** 2 kg/ MT of animal dung and/or crop residues mixture

### Application Methodology:



- Collect and make a pile of cow dung / animal excreta and the floor residues of fodder / animal feed in an open area on the ground
- Dissolve Zytonic BioDigester powder in water
- Drench the pile with this solution and cover it
- Allow the bio-digestion to complete for the next 30 days
- Spray water as needed to maintain moisture in heap
- Maintain the height of the heap at 2.5-3 feet to ensure uniform distribution of the Zytonic BioDigester solution
- For a robust crop with superior yields, this enriched manure can be applied at the rate of 500-1000 kg/acre mixed with 15 kg of Zytonic M, 6 kg of Zytonic NPK & 2 kg of Zytonic Zinc as a basal application, followed by 15-20 cm deep rotovation.

## Benefits of enriched FYM & Zytonic Bio-fertilizers as basal treatment

- Makes soils soft and porous with improved water-holding capacity. The enhanced bio-inoculation and activity helps in ensuring germination and survival up to 95% and above.
- Soft and porous soils promote a larger, profuse white root zone with an extended mycorrhiza hyphae network. This along with the enhanced soil biology delivers substantially higher & continuous plant-available nutrients to the crop throughout the growing season. This ensures higher yields with elimination of chemical fertigation.
- The enhanced crop immunity leads to better quality produce and lesser use of crop care chemicals

**Note:** Avoid use of fungicides and inorganic fertilizers, especially DAP or soluble phosphates, etc. within the 1st month of growth (post-germination)

Store in a cool & dry place, away from direct sunlight & heat