

# Microbial Culture CR Series

## Technical data Sheet

**Microbial culture CR Series** is the synergistic blend of naturally selected beneficial, harmless and robust bacteria, macro & micro nutrients and biological additives with enhanced microbial colonization in organic effluents. It is a synergistic blend of natural bio-enzyme preparation capable of converting complex compounds like fat, protein, starch, cellulose to simpler ones in an Effluent Treatment Plant.

**Microbial culture CR Series** produces various enzymes capable of breaking down complex organic compounds to simpler ones, hence degrades the organic waste more rapidly and efficiently. By this virtue, it helps to maintain the health of MLSS faster, makes the process more stable with respect to shock loading and makes the entire system more efficient in STPs and/or ETPs.

**Microbial Culture CR Series** also breaks down and degrades organic & inorganic materials that cause unpleasant odors into odorless compounds.

### Product Specifications –

Six Bacillus bacterial species combined with two Pseudomonas species.

<b>Bacteria count</b>	<b>CFU/gram</b>
10 billion	10 <sup>10</sup> (Highest in its category)

### **Enzymes Produced**

Protease, Lipase, Amylase, Urease, Cellulase, Nitrate Reductase

### **Working Conditions**

pH range	-	6.0 -10.0
Temperature range	-	5°C – 55°C
Oxygen Requirements	-	Aerobic, Facultative, Anaerobic

### **Application Point -**

Inlet to Aeration tank  
Buffer tank or inlet to Anaerobic Digester

### Advantages –

- Reduction of BOD, COD and TSS within PCB norms.
- Reduction in operational cost as there is no requirement of Cow dung, Urea or DAP.
- Efficient and fast decomposition of the organic material (e.g. Fatty acids, grease, proteins and carbohydrates)
- Reduction of Odor.

- Reduction of Oil & grease.
- Improves the efficiency of Aerobic and Anaerobic system.
- Improve start up and recovery from shock loading.
- Shock loads are better absorbed.
- Reduce Sludge Volume.
- Control H<sub>2</sub>S
- Reduce Surfactants/ Chemicals.
- Environment Friendly.

### **Safety -**

This product is non-toxic, non-pathogenic, non-hazardous, non-contagious, non-corrosive and non-pyrogenic. Bacteria used are from WHO recommended natural strains for safety which are not genetically modified, hence possesses no threat to environment. It Creates no heat, no fumes, no boiling. It does not attack live tissue or any inorganic materials.

However, any contact with bacterial culture should be dealt with immediate flushing of the part in contact and irritation to skin, ingestion and/or inhalation should be immediately reported to the health centre.

### **Storage and transport stability –**

Product can be stored at room temperature under dry conditions. Product stability is for 6 months if stored at cool, dry place and intact in its original packing. The product is safe to transport by any means of surface transport and air transport.