

**EffuTreat™**  
Bioculture

**M<sup>B</sup>**  
M.B.P.L

**MOTHEREARTH**  
BIOTECH PVT. LTD.

**PHARMA**

## **NEED FOR EffuTreat PHARMA**

The rise in global demand for drugs has made the pharmaceutical industry a significant contributor to solid waste and effluent pollution in the environment. Despite the many benefits pharmaceutical compounds offer to society, their presence in the environment has resulted in contamination. These compounds can find their way into the environment through various pathways, including treated wastewater discharge, sewage from landfills, sewer lines, runoff from animal wastes, and the land application of manure fertilizers. The wastewater produced by the pharmaceutical industry contains high levels of organic matter, microbial toxicants, elevated salt concentrations, and non-biodegradable compounds. With water resources becoming increasingly scarce, it is essential to efficiently treat pharmaceutical wastewater.

## **EffuTreat PHARMA**

EffuTreat Pharma provides an innovative and eco-friendly method for addressing the unique challenges related to pharmaceutical wastewater treatment. This distinct product, EffuTreat Pharma, is a unique combination of bacteria created to efficiently manage wastewater in the pharmaceutical sector. This groundbreaking and environmentally friendly product can effectively break down intricate pharmaceutical and organic substances, such as biodegradable solvents, antimicrobial agents, microbicides, and drugs present in low concentrations. The specific strain of microbes isolated and fermented for EffuTreat Pharma can endure high shock loads caused by fluctuations in production and the research and development of new products in the pharmaceutical, nutraceutical, formulations, antibiotics, and drugs and pharmaceutical ingredients industries.



## **BENEFITS OF USING EffuTreat PHARMA**

- Assist in regulating the levels of Sulphide and chloride present in wastewater.
- Reduction in commissioning time of ETP.
- Rapid growth of MLSS with high MLVSS content.
- Reduces BOD and COD and suppresses the foul odor from ETP.
- Rapidly increase high concentrated acclimatized anaerobes for fast stabilization.
- Bacteria effectively degrade oil and grease and the other complex compounds.
- Multiple bacterial strains stabilize shock load and reduce excess sludge generation.
- Effective under most environment condition, Non-toxic, non-corrosive, safe to handle and store, safe to the environment.

## **AREAS OF APPLICATION**

- Membrane Bio Reactor
- Activated sludge Process
- MBBR tanks
- Sequencing Batch Reactor (SBR)
- Membrane Bio Reactor (MBR)

## PERFORMANCE PARAMETERS

- pH 6.5-7.5
- Temperature 5°C - 55°C
- Reactivation Rate 99% after addition to water
- Concentration Highly Concentrated
- Shelf Life 1 Years



## PHYSICAL STATES AND THEIR FEATURES

- |                    |   |                              |
|--------------------|---|------------------------------|
| • Physical States  | LIQUID                                      | POWDER                       |
| • Appearance       | Tortilla brown                              | Swiss coffe brown            |
| • Odor             | Smell of media & micro organisms is present | Odorless                     |
| • Moisture Content | 100%  | 15% - 17%                    |
| • Mesh Size        | N/A   | 0.4 mm – 0.8 mm              |
| • Packaging        | 50 ltr drum, 1 ltr bottle                   | 1 kg Aluminum Standing Pouch |

## APPLICATION MATRIX

- Merge 1 kilogram of EffuTreat PHARMA with 1 kilogram of liquid jaggery, and subsequently add this combination to 100 liters of feed water. (2Kg in 200 Litres & soon...)

## DOSAGE SCHEDULE

- The quantity needed daily is determined by the volume of wastewater and the organic load.
- However, the ratio between the amount of water to be used and the odor control solution also depends on the intensity of the odor at different places