



HP BIOREMEDIA

Bio-additive for Enhancing Degradation of Hydrocarbons in Sludge

Description:

Sludge produced by spillage of hydrocarbon (HC) products or crude oil, and oily sludge produced from refineries have high densities, low oil content, and high asphaltene levels. Bioremediation of the sludge is time consuming because of the low degradation efficiencies exhibited by microorganisms under actual field conditions, and the recalcitrant nature of HCs attributed to the presence of compounds such as polycyclic aromatic hydrocarbons (PAH), asphaltenes, resins etc.; which are often not utilized by microorganisms.

HP Green R&D Centre has developed HP BIOREMEDIA, a bio-additive which is a combination of bacteria and fungi with significant HC utilization and adsorption ability immobilized on an organic carrier.

Advantages:

75% HC degradation within the first 90 days for sludge containing 3-5 % HC. 60% HC degradation within the first 90 days for sludge containing 8-10 % HC.

Applications:

Bioremediation of oily sludge generated in refineries typically during routine tank cleaning operations