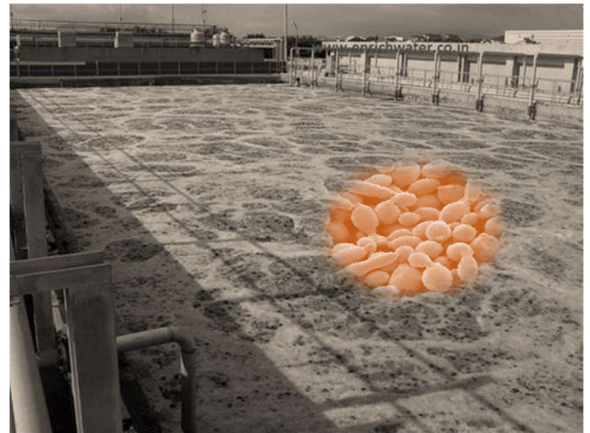


HP-BIOACTIVA

An effective bio-additive for effluent treatment

- ❖ COD and BOD levels in refinery effluents are a result of the presence of hydrocarbons as well as sulphidic and phenolic compounds.
- ❖ Under normal conditions of steady effluent inflows with a relatively constant composition, existing Effluent Treatment Processes can effectively reduce the levels of pollutants within permissible limits.
- ❖ However, shock loadings of these chemicals in effluents can offset ETP processes affecting their effective removal.
- ❖ The use of HP-BIOACTIVA, a newly developed bio-additive helps to restore the 'health' of ETPs.
- ❖ HP-BIOACTIVA is a blend of carefully selected microorganisms that can withstand high concentrations of chemical pollutants in effluents.
- ❖ HP-BIOACTIVA was extensively tested in ETPs of several refineries and found to be highly effective in drastically reducing the levels of COD and BOD within a very short time.



HPCL offers HP-BIOACTIVA as a bio-additive for restoring the 'health' of ETPs'.