CHAPTER III

Objectives
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Bioremediation is a process in which a specialized consortium of natural microorganisms degrades the organic deposits. Usually the process of bioremediation is carried out using specially prepared, naturally occurring non-pathogenic microbes. Although bioremediation holds great promise for dealing with intractable environmental problems, it is important to recognize that much of this promise has yet to be realized. Specifically much needs to be learned about how microorganisms interact with different hydrologic environment. As this understanding increase, the efficiency and applicability of bioremediation will grow rapidly.

In the present study an attempt is made to isolate algae from the study area, Parvathy Puthanar, Thiruvananthapuram, Kerala, and use them in bioremediation or treatment of waste water. The main objectives of the study are:

1. Identification and selection of algal species from the freshwater source;
2. Studies on hydrography of polluted water within the Parvathy Puthanar area;
3. To isolate algae from freshwater source;
4. Culture them and grow;
5. Studies on the heavy metal content of treated and non treated water sample, and