Chapter V
Suggestions, Recommendations and Photographs
The environments of air, land and water bodies are interdependent, linked by complex atmospheric, geological, physical, chemical and biological interactions. The human activities that effect, and arise from this environment also depend on economic and social factors. The pollution problem of air and water bodies has begun to cause concern now in most of the major metropolitan cities of India. Among the different water bodies, lakes have a complex and fragile ecosystem, as they do not have self cleaning ability and therefore readily accumulate pollutants. It is expected that in addition to the water analysis which is practiced for years, such sediment analysis will help in evaluating quality of the total ecosystem of the lake. It will also provide environmentally significant information about natural and anthropogenic influence on the lake ecosystem.

The increasing trend in concentration of heavy metals in the lake ecosystem has created considerable attention amongst ecologists globally during the last decades. Measurements have been made of atmospheric metallic precipitation in Europe and USA. However no such studies have been carried out in India and there are no much past metal load data available. Therefore there is need for extensive monitoring efforts over long periods of time in order to describe average metal precipitation and its trend, which is an essential component of any pollution control management.

The present environmental pollution data along the Bhavan’s College campus of Andheri, Mumbai suggests that the pollution problem is beyond the limits of physical and institutional bodies. Therefore, there is a need to set common objectives and implement compatible policies and programs for improvement in the sewage and waste water treatment methods. Today it is realized that the solution to existing environmental problem can only be achieved through a comprehensive, systematic and sustained approach.
1. Geographical map showing Bhavan’s College campus, Andheri, Mumbai.
2. Aerial view of Bhavan’s College campus, Andheri, Mumbai.
3. Leaves of fully tree of *Polyalthia Longifolia*

4. Leaves and flowers of fully grown *Ceasalpinia pucherima*
5. *Delonix regia*

6. Leaves and fruits of fully grown tree of *Tamarindus indica*
7. Indian Carp (C. catla)
8. Fish Sampling from Bhavan’s College lake, Andheri, Mumbai.

9. Sediment sampling along Bhavan’s College lake of Andheri, Mumbai.
10. Sediment sampling along Bhavan’s College lake of Andheri, Mumbai.

11. Water sampling from Bhavan’s College lake, Andheri, Mumbai.
12. Water sampling from Bhavan’s College lake, Andheri, Mumbai.
13. Leaves sampling from *Polyaltia Longifolia*
14. A typical sediment sampler

15. A Typical model of Atomic Absorption Spectrophotometry (AAS)