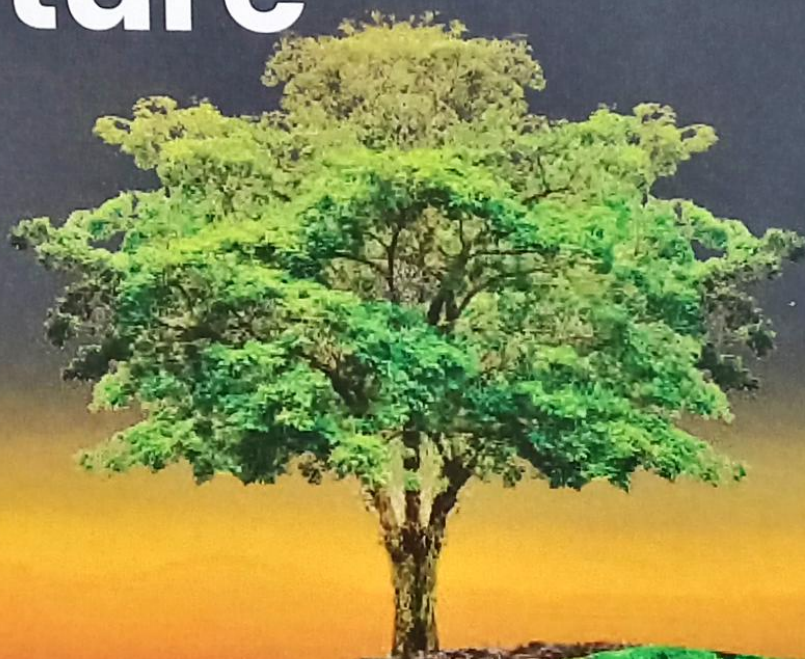




Life Science For A Sustainable Future



General Editor

Meera George, Ph.D



RPH

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Analysis of Physico – Chemical Status of Soil Samples Exposed to Different Pollution Sources

Aswathy Kunjumon, Kaladevi V, Preetha SS*

Abstract :

Pollution is an all-time ecological crisis that the man is facing ever after the era of industrial revolution. It is the introduction of a harmful substances or products into the environment, which are typically foreign substances, particularly a contaminant or toxin, that produce some kind of negative or harmful impact on the environment or living beings. The soil samples were collected from different pollution sources and showed great extent of variation in their physio-chemistry during analysis. The essential properties of the soil that supports plant growth and life has been seriously destructed due to the influence of various contamination. The analysis showed that the water holding capacity, moisture content, N, P, K shows marked variation. It was also estimated that even the microbial composition and the microbial activities also get severely affected which indicates a marked variation in the organic carbon content. Appreciably large quantities of macro nutrient were estimated in the farm waste contaminated soil, which serves as a nutrient pool for plant growth. The soil whose properties are severely damaged by the pollution sources can be recovered by proper treatment.

In the present study, soil samples exposed to different pollution sources were taken from different locations and the physio-chemical