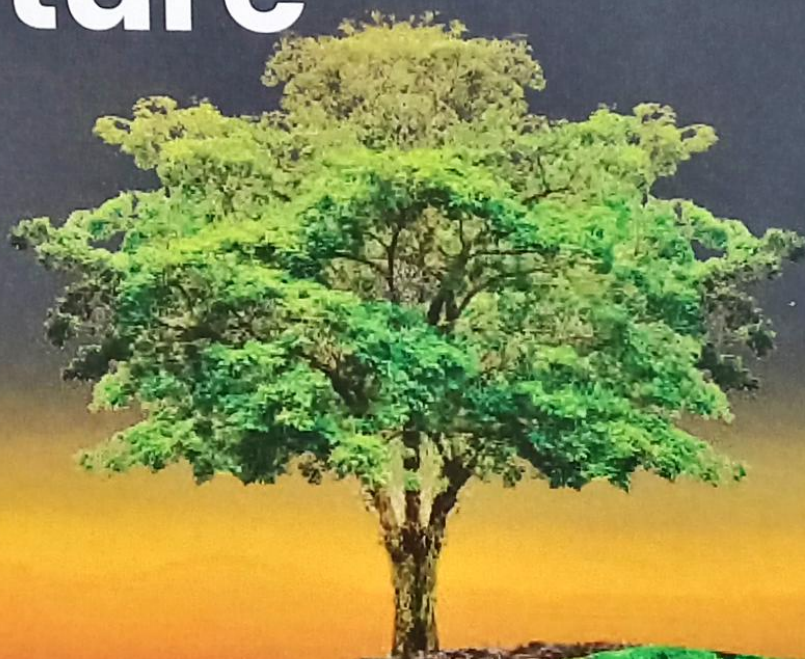




Life Science For A Sustainable Future



General Editor

Meera George, Ph.D



RPH

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3.	Analysis of physico-chemical status of soil samples exposed to different pollution sources.	90
4.	Sub - lethal ill effects of some selected pesticides on <i>Cyphoderus javanus</i> in laboratory experiments.	92
5.	Comparative study on the effect of two agrochemicals on the fecundity of a soil isopod- <i>Cylisticus convexus</i> .	94
6.	Above ground biomass estimation of selected vegetation types in Vithura Region, Thiruvananthapuram Using gis and Remote Sensing.	95
7.	Scanning electron microscopic studies on pineapple plant (<i>Ananas comosus</i>) stem starch- an approach towards the effective utilization of an agro-waste.	97
8.	Eco-tourism - A case study of Vellayani lake.	98
9.	Impact of abattoir wastes on the physico-chemical properties of soil with special reference to heavy metals in selected areas of Anchal Block Panchayat of Kollam District.	99
10.	Impact of herbicide (Altrazine) on the reproductive biology of <i>Bilobella braunerae</i> , (Collembola : Neanuridae).	101
11.	Production of bioplastic from drained rice water starch: the prospective of using cellulose nanofibres to improve the tensile strength	103

Theme 5

Health and Food Science

1.	Medium optimization for enhanced biomass production of <i>Bacillus Sp.</i>	107
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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