

## **Executive Summary of the UGC Minor Research Project**

**Title of the project-** Heavy Metal Burden in Coastal Marine Sediment and their bioaccumulation in some fish species of Ratnagiri Coast, Maharashtra

Human activities such as shipping, marine transportation and fisheries are might associate in heavy metals enrichment in the sediment. It is suggested that increasing of nutrient availability due to upwelling during monsoon season (summer) enhanced phytoplankton growth followed by increasing of suspended organic matter which should be involved in heavy metals enrichment of sediment.

So can the variation in heavy metals concentration be correlated to the evaporation rate of water during the winter and summer? To understand the exact effect of monsoon on heavy metal concentration in the sediment more detailed study is recommended.

Increasing urbanization and industrialization the volumes of sewage and effluents along Indian coast are increasing. Substantial sewage effluents are discharged in untreated fashion after a primary treatment. This study clearly underlines the fact that Ratnagiri coastal region has threshold levels of metals and is thus on the verge of getting polluted sooner. Some immediate urgent steps are therefore called for not only for pollution abetments by way of controlling agricultural and sewage runoff in to the Ratnagiri coast but also by setting up a continuous monitoring by the State pollution Control Board by collecting data on the quality of coastal waters so as to ensure quality of coastal pollution.