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An Overview of Research Trends in Remediation of Heavy Metal Ion from Polluted Water

Shanmugam. S and *Arabi Mohammed Saleh M.A.

School of Bio Sciences and Technology, (SBST), VIT University, Vellore. India.

Abstract: In the present scenario because of rapid industrialisation, the environmental problems are more and more nuisance for world population. Efficient and effective methods for the removal of pollutants present in water are the need of the industries. Heavy metals present in waste water and industrial effluent is major concern of environmental pollution. Most heavy metals are well-known toxic and carcinogenic agents and it represent a serious threat to the human population and the fauna and flora of the receiving water bodies. These inorganic species are persistent and non-biodegradable pollutants that should be eliminated from water. The need to find alternative inexpensive and effective methods for heavy metal removal from waters becomes inevitable. Bio sorption is an emerging field in this regard and has great potentials for application in developing economies. It involves the use of living or non-living biological materials for pollutants removal from wastewater. In this review an attempt is done to summarize the research work done related to use of bio sorbents for the remediation of water and waste waters.

Key words: Heavy metals, waters, pollution, bio sorption.

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