

BIOREMEDIATION OF SEWAGE USING SPECIFIC CONSORTIUM OF MICROORGANISMS

B RAVI KUMAR, M LAKSHMI PRASAD, D SRINIVASARAO & K R S SAMBASIVA RAO

Department of Biotechnology, Acharya Nagarjuna University, Guntur, Andhra Pradesh, India

ABSTRACT

Municipal sewage problems are more complex as the volume of the wastewater is large and it requires huge area for treatment. The objective of this work is to evaluate a set of microbial consortium for domestic wastewater treatment. Lab scale bioreactors using specific consortium was applied for the domestic wastewater treatment. The study was conducted to test individual abilities of microbial genera and as consortia with an ultimate aim of achieving safer environmental standards. However, the key component of the research study is to confirm the role of microbial flora in treatment of municipal sewage.

KEYWORDS: Ministry of Urban Development, ASP, UASB