

VISVESVARAYA TECHNOLOGICAL UNIVERSITY
“Jnana Sangama” Belgaum-590 014



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A Project Report on

**“REMOVAL OF ARSENIC FROM WATER BY USING
ADSORPTION TECHNIQUE”**

Submitted in partial fulfillment of the requirements for the award of degree

BACHELOR OF ENGINEERING

IN

CHEMICAL ENGINEERING

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Abstract

The presence of arsenic in waters, especially groundwater, has become a worldwide problem in the past decades. The current regulation of drinking water standard has become more stringent and requires arsenic content to be reduced to a few parts per billion. There are numbers of arsenic removal methods, which include coagulation followed by precipitation, membrane separation, anion exchange, Adsorption process etc. The use of low-cost adsorbent obtained from an environmentally friendly materials, has been investigated as a replacement for the current expensive methods of removing arsenic from solution. The aim of this study was to determine the effect of fuller's earth material as adsorbent for removal of arsenic from water. The removal of arsenic was investigated in terms of various parameters, namely, size of adsorbent, initial concentration of arsenic solution and flow rate of the feed solution.