

**“ASSESSMENT OF SURFACE AND GROUND WATER QUALITY IN  
AND AROUND GURUPURA”**



**PROJECT REPORT**

Submitted by

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In partial fulfillment of the requirements for the degree of  
**BACHELOR OF ENGINEERING**

In

**CIVIL ENGINEERING**

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI-590018.**

Under the Guidance of

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**Department of Civil Engineering**

**ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY**

**MOODBIDRI-574225, KARNATAKA**

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# ALVA'S INSTITUTE OF ENGINEERING AND TECHNOLOGY

MIJAR, MOODBIDRI D.K. - 574225  
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ALVA'S  
Education Foundation

## DEPARTMENT OF CIVIL ENGINEERING

### CERTIFICATE

Certified that the project work entitled "ASSESSMENT OF SURFACE AND GROUND WATER QUALITY IN AND AROUND GURUPURA" has been successfully completed by

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The bonafide students of Department of Civil Engineering ,Alva's Institute of Engineering and Technology in partial fulfillment for the award of BACHELOR OF ENGINEERING in CIVIL ENGINEERING of the VISVESVARAYA TECHNOLOGICAL UNIVERSITY BELAGAVI during the year 2020. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements in respect of seminar work prescribed for the Bachelor of Engineering Degree.

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Mr. Ashish Shetty  
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## ABSTRACT

In the present study, the water samples were collected from seven different stations of Gurupura River, and also from 6 different wells in Gurupura Town, Mangalore Taluk, Dakshina Kannada District, Karnataka, India, for physico-chemical analysis. Water was collected for the analysis of various parameters such as Temperature, pH, Electrical conductivity, Suspended solids, Dissolved solids, Total solids, Biochemical Oxygen Demand (BOD), Carbonates, Bicarbonates, Chloride. The methods used for the analysis are as per standard methods recommended by APHA (2005), WHO. The result obtained was compared with BIS standard and the result shows variation that affects the water quality. Hence water should be treated to reduce the pollution in the water and increase the water quality.