

**VISVESVARAYA TECHNOLOGICAL UNIVERSITY**

**"Jnana Sangama" Belagavi - 590018**



**PROJECT REPORT ON**

**"PHYSIO-CHEMICAL ANALYSIS OF POND WATER AT AIET  
CAMPUS"**

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

**BACHELOR OF ENGINEERING  
IN  
CIVIL ENGINEERING**

Submitted By

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**S INSTITUTE OF ENGINEERING & TECHNOLOGY**

**MOODBIDRI - 574225**

**2018-19**

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# ALVA'S INSTITUTE OF ENGINEERING & TECHNOLOGY

(A Unit of Alva's Education Foundation, Moodbidri)

"Shobhavana", Mijar, Moodbidri - 574225, D.K.




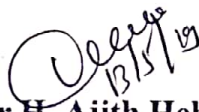
DEPARTMENT OF CIVIL ENGINEERING

## Certificate

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This is to certify that above students have submitted Project Report on the topic **"PHYSIO-CHEMICAL ANALYSIS OF POND WATER AT AIET CAMPUS"** for VIII<sup>th</sup> semester B.E in Civil Engineering during the academic year 2018 -19. The Project has been approved as it satisfies the academic requirements in report of Project work prescribed by Visvesvaraya Technological University for the award of degree in Bachelor of Engineering Degree.

  
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12/06/19



## PHYSIO-CHEMICAL ANALYSIS OF POND WATER AT AIET CAMPUS

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### ABSTRACT

We have investigated the water quality of the pond located in the AIET campus. The pond which was greenish tan and cloudy appearance, typically contains a large water fowl population and their waste has contributed to decrease the water quality. In an effort increase the water quality we have removed all the floating materials.

We have investigated the status of the pond, we measured pH turbidity, acidity and few more physical properties and we also concentrated on the microbial analysis, during this analysis we have found that the water is not pure and it cannot be used for the domestic purpose. The values obtained for the physical, chemical and microbial analysis are not to standards.

We have conducted the experiments during the pre-monsoon and post monsoon seasons and we have come across with an idea of installation of sand filters, Stone pitching and creation of percolation ponds surrounding to the pond.

To improve the quality of the pond water and its appearance our study suggest that the removing and treating pond sediments and suspended particulates may help to reduce the sorbed nutrients like phosphorous, that leads to algal growth. Developing a method to manage nutrients sorbed to suspended pond sediments will help solve problems associated with stagnant pond algae growth.