

# **“EFFECT OF PRETREATMENT ON BIOGAS PRODUCTION USING WATER HYCIANTH”**

*Dissertation submitted to University of Kerala in partial fulfilment of the  
requirement for the Degree of*

**MASTER OF SCIENCE**

**IN**

**BIOTECHNOLOGY**

**SUBMITTED BY**

**AAVANY SURYA S.D**

**CANDIDATE CODE: 65920132001**

**COURSE AND SPECIALISATION; MSc BIOTECHNOLOGY**

**EXAMINATION CODE: 65920401**

**SUBJECT CODE: 404**



**DEPARTMENT OF BIOTECHNOLOGY**

**SREE NARAYANA COLLEGE**

**SEPTEMBER 2022**



# BIOVENT INNOVATIONS Pvt. Ltd.

*Synthesizing Scientific Solutions*

A Startup under Kerala University Business Innovation and Incubation Centre

Ref : BIPL/ADMN/DR/AP21-22/132C

## CERTIFICATE

This is to certify that this dissertation entitled "Effect of Pretreatment on Biogas Production using Water Hyacinth" is a bonafide record of independent work carried out by Ms. Aavany Surya S.D., Department of Biotechnology, S.N. College, Kollam, under the supervision and guidance of Dr. Dhanyalekshmi C.S., at this institute in the period of 27<sup>th</sup> December 2022 to 25<sup>th</sup> February 2022. This is in partial fulfilment of the requirements for the Master's Degree in Biotechnology, University of Kerala. It is also certified that the work presented in this thesis has not been submitted earlier for any other Degree or Diploma elsewhere.



*Roshin*

**21.03.2022**  
**Thiruvananthapuram**

**Dr. Roshin Elizabeth George**  
**Director**

