

**Standardisation of Process Parameters for Biomass to
Bioethanol Production using Cellulolytic Extremophiles**

Submitted in partial fulfilment of the requirements
of the degree of

Master of Science in Life Science (Applied Medical Sciences)

by

Annabelle Jose

(UID No.: 188505)

Guided by:

Dr. Sangeeta Shetty



**Department of Life Science & Biochemistry
St. Xavier's College (Autonomous), Mumbai**

June 2020



DEPARTMENT OF LIFE SCIENCE & BIOCHEMISTRY
ST. XAVIER'S COLLEGE (AUTONOMOUS), MUMBAI
MUMBAI - 400 001



CERTIFICATE

Class: M.Sc. (Part II) – Life Science

UID NO.: 188505

This is to certify that the project entitled “Standardisation of Process Parameters for Biomass to Bioethanol Production using Cellulolytic Extremophiles” is a result of the original research work carried out by Ms. Annabelle Jose.

This project is submitted to the Department of Life Science & Biochemistry, St. Xavier's College (Autonomous), Mumbai, in partial fulfilment for the degree of **Master of Science (M.Sc.) - Life Science (Applied Medical Sciences)** for the year 2019-20.

Dr. Sangeeta Shetty
Research Advisor

Head of Department
Life Science and Biochemistry

Date: 27th June 2020

Place: Mumbai

DEPARTMENT OF LIFE SCIENCE
AND BIOCHEMISTRY
ST. XAVIER'S COLLEGE (AUTONOMOUS)
MAHARAJA KRISHNAJI
MUMBAI - 400 001.

DECLARATION

Class: **M.Sc. (Part II) – Life Sciences**

UID NO.: **188505**

I declare that this dissertation entitled “Standardisation of Process Parameters for Biomass to Bioethanol Production using Cellulolytic Extremophiles” has been written by me and no part of it has been plagiarized from any other source. The literature has been cited in-text and in the reference list. I also declare that I have adhered to all principles of academic honesty and integrity and have not misrepresented or fabricated or falsified any idea/data/fact/source in my dissertation. I understand that any violation of the above will be the cause for disciplinary action by the College and can also evoke penal action from the sources which have thus not been properly cited or from whom proper permission has not been taken when needed. The entire work or any part of it thereof, will not be published without the permission and consent of my research guide.



Signature

Name of student: **Ms. Anabelle Jose**

Date: **27th June, 2020**

Place: **Mumbai**