

**Synthesis Characterization & Application of Metal-Organic Framework  
For H<sub>2</sub> Evolution Reactions**

A Dissertation Report for

Course code and Course Title: CGO-500 Dissertation

Credits: 8

Submitted in partial fulfilment of requirements for the Degree of

Master of Science (M.Sc.)

Physical Chemistry

By

**SARVESH SANJIV DESAI**

Roll Number: 21P049076

Under the Supervision of

**Dr. Nitesh Joshi**

In the School of Chemical Sciences  
Goa University



2023



Examined by:

Seal of the School

### DECLARATION BY STUDENT

I hereby declare that the data presented in this Dissertation / Internship report entitled, **"Synthesis Characterization & Application of Metal-Organic Framework For H<sub>2</sub> Evolution Reactions"** is based on the results of investigations carried out by me in the School of Chemical Sciences at the, Goa University under the Supervision Dr. Nitesh Joshi and the same has not been submitted elsewhere for the award of a degree or diploma by me. Further, I understand that Goa University or its authorities will be not be responsible for the correctness of observations / experimental or other findings given the dissertation.

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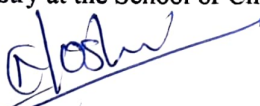
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## COMPLETION CERTIFICATE

This is to certify that the dissertation / internship report **"Synthesis Characterization & Application of Metal-Organic Framework For H<sub>2</sub> Evolution Reactions"** is a bonafide work carried out by **Mr. Sarvesh Sanjiv Desai** under my supervision/mentorship in partial fulfilment of the requirements for the award of the degree of **Master of Science** in the Discipline in Physical Chemistry at the School of Chemical Sciences, Goa University.



Dr. Nitesh Joshi  
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Date: 26/4/2023



School Stamp



06/05/2023

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Date: 26/4/2023  
Place: Goa University