

**“HYDROTHERMAL SYNTHESIS AND CHARACTERIZATION
OF INDIUM OXIDE (In_2O_3)”**

**RESEARCH PROJECT SUBMITTED TO
SAVITRIBAI PHULE PUNE UNIVERSITY, PUNE**



**FOR THE DEGREE OF
MASTER OF SCIENCE**

IN

ORGANIC CHEMISTRY

UNDER THE FACULTY OF SCIENCE

BY

MR. KRUSHNA VIJAY KHULE

UNDER THE GUIDANCE OF

MR. JAGDISH GHOTEKAR SIR

DEPARTMENT OF CHEMISTRY

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE, SINNAR
422103**

OCT/NOV 2024-2025



Maratha Vidya Prasarak Samaj's

G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,

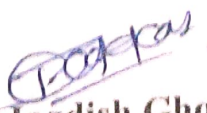
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DEPARTMENT OF CHEMISTRY

This is to certify that the work incorporated in the project entitled

Topic name: Hydrothermal Synthesis and Characterization of Indium oxide (In_2O_3).

Was satisfactorily carried out by **Mr. Krushna Vijay Khule** of M.Sc. Organic Chemistry. He has completed this project under my supervision and guidance during Academic Year 2024 -2025. This project work submitted by his original and the scientific information obtained from other sources have been acknowledged.


Mr. Jagdish Ghotekar sir
(Project Guide)



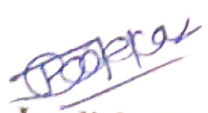
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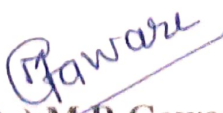
CERTIFICATE

This is to certify that PG dissertation entitled synthesis "**Hydrothermal Synthesis and Characterization of Indium oxide (In_2O_3)**". submitted by **Mr. Khule Krushna Vijay** and it was carried out by the candidate under the supervision of **Mr. Jagdish Ghotekar Sir**. He has successfully completed the project work in Organic Chemistry (**CHO-607**) during the Sem-III of academic year 2024-2025.

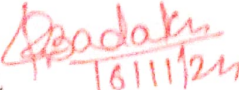
Date:

Place: Sinnar


Mr. Jagdish Ghotekar
(Project Guide)


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Internal Examiner



External Examiner


External Examiner

DECLARATION

I hereby declare that the presented Research Project on “**Hydrothermal Synthesis and Characterization of Indium oxide (In_2O_3)**” is uniquely prepared by me at G.M.D. Arts, B.W. Commerce And Science College Sinnar under the guidance of Mr. Jagdish Ghotekar Sir.

Place: Sinnar
Date

Sign - 
Name-Krushna Vijay Khule

ACKNOWLEDEMENT

- I would like to thank M.V.P. Samaj's G.M.D. Arts B.W. Commerce and Science College Sinnar for providing me the necessary resources, infrastructural, and facilities to carry out this project.
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- I would like to thank, HOD Prof. Dr.M.R. Gaware for his constructive help during project.
- I would like to thank. Mr. Jagdish Ghotekar (Project Guide), for their constant Encouragement, insightful constant Encouragement guidance that helped me to navigate through the various challenges of this project.
- I would like to thank all the faculty members of the Department of Chemistry, for Imparting me with the theoretical and practical knowledge necessary to complete this project.
- I would like to thank my classmate, for their feedback suggestion and stimulating discussions that enriched my understanding of the subject matter.

Sign-



Name- Krushna Vijay Khule