

**GREEN SYNTHESIS AND CHARACTERIZATION OF MAGNESIUM
DOPED NICKEL OXIDE NANOPARTICLE USING LANTANA CAMARA
EXTRACT**

**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. PRATIK SAMPAT BHABAD

UNDER THE GUIDANCE OF

MR. DHANRAJ BAHIRAM SIR

DEPARTMENT OF CHEMISTRY

**G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE, SINNAR
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OCT/NOV 2024-2025



Maratha Vidya Prasarak Samaj's

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

SINNAR, DIST- NASHIK

DEPARTMENT OF CHEMISTRY

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

Topic name: Green Synthesis and Characterization of Magnesium doped Nickel oxide NPs using Lantana Camara leaf extract.

Was satisfactorily carried out by **Mr. Pratik Sampat Bhabad** 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 obtain from other sources have been acknowledged.

Mr. Dhanraj Bahiram Sir

(Project Guide)




Maratha Vidya Prasarak Samaj's
G.M.D. ARTS, B.W. COMMERCE AND SCIENCE COLLEGE,
SINNAR, DIST- NASHIK
DEPARTMENT OF CHEMISTRY


CERTIFICATE

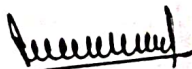
This is to certify that PG dissertation entitled Synthesis Green Synthesis and Characterization of Magnesium doped Nickel Oxide Nanoparticle Using Lantana Camara Leaf Extract submitted by **Mr. Pratik Sampat Bhabad** and it was carried out by the candidate under the supervision of **Mr. Dhanraj Bahiram Sir**. He has successfully completed the project work in Organic Chemistry (CHO-607) during the Sem-III of academic year 2024-2025.

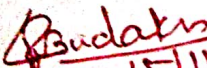
Date:

Place: Sinnar



Mr. Dhanraj Bahiram
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Internal Examiner
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DECLARATION

I hereby declare that the presented Research Project on **Green Synthesis and Characterization of Magnesium doped Nickel oxide NPs using Lantana Camara leaf extract** is uniquely prepared by me at G.M.D. Arts, B.W. Commerce And Science College Sinnar under the guidance of Mr. Dhanraj Bahiram Sir.

Sign- 

Name-Pratik Sampat Bhabad

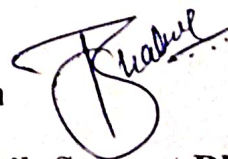
Place: Sinnar

Date: 15/11/24

ACKNOWLEDGEMENT

- The success and outcome of this project required a lot of guidance and assistance from many people. All that I have done is only due to such supervision and assistance and I would never forget to thank them.
- I would like to thank M.V.P. Samaj's **G.M.D. Arts, B.W. Commerce and Science College Sinnar**, for providing me with the necessary resources, infrastructure and facilities to carry out this project.
- I respect and am grateful to our Respected Principal **Dr.P.V.Rasal Sir** for providing me with an opportunity to do the project and giving all the support and guidance which helped me to complete the project successfully.
- I would like to thank, our HoD **Prof. (Dr) M.R. Gaware Sir** for his constructive help during project.
- I would like to thank **Mr. Dhanraj Bahiram Sir (Project Guide)**, for their constant encouragement, insightful feedback and expert 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 and the supporting staff, for imparting me with the theoretical and practical knowledge necessary to complete this project.
- I would like to thank my classmates and colleagues, for their feedback, suggestions, and stimulating discussions that enriched my understanding of the subject matter.

Sign



Pratik Sampat Bhabad