



FOR THE DEGREE OF
MASTER OF SCIENCE IN
ORGANIC CHEMISTRY
UNDER THE FACULTY OF
SCIENCE

BY

MS. THORAT RUPALI MARUTI

DEPARTMENT OF CHEMISTRY

UNDER THE GUIDANCE OF

MS. ANKITA RAYATE

DEPARTMENT OF CHEMISTRY

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

DEPARTMENT OF CHEMISTRY AND RESEARCH CENTER MARCH-APRIL
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: "SYNTHESIS AND SPECTROSCOPIC
INVESTIGATION OF PYRAZOLE-BASED COMPOUNDS"**

Was satisfactorily carried out by **Ms. Thorat Rupali Maruti** 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

Ankita

Ass. Ms. Ankita Rayate
(Project Guide)



Maratha Vidya Prasarak Samaja's

G.M.D.ARTS, B.W.COMMERCE AND SCIENCE COLLEGE, SINNAR, DIST-
NASHIK

DEPARTMENT OF CHEMISTRY

CERTIFICATE

This is to certify that **Ms. Thorat Rupali Maruti** studying in MSc- II (Organic Chemistry) at M.V.P.Samaj's G.M.D.Arts, B.W.Commerce and Science College, Sinnar He has successfully completed the project work in Organic Chemistry (CHO- 656) during the Sem- Iv of academic year 2024- 2025.

Date: 22/04/2025

Place: Sinnar.

Ankita
Ms . Ankita Rayate
(project guide).

Gaware
Prof. Dr. Hemant J. Gaware.
(HOD)
DEPARTMENT OF CHEMISTRY
G.M.D. Arts, B.W. Commerce
and Science College, Sinnar

Patil
Dr. N.U. Patil
(Principal),
G.M.D Arts, B.W. Commerce and
Science College, Sinnar, Dist. Nashik

Pradip
25/04/25
Internal Examiner

Examined
U. S.
25/04/2025
External Examiner

Examined
U. S.
25/04/25
External Examiner

DECLARATION

I hereby declare that the presented Research Project on "**Synthesis and spectroscopic investigation of Pyrazole-based compounds**" is uniquely prepared by me at G.M.D Arts, B.W. Commerce And Science College Sinnar under the guidance of Ms. Ankita Rayate.

I am deeply grateful to the Head of the Department, Prof. M.D. Gawade, for his constructive assistance and guidance throughout the research endeavor. His encouragement and support were instrumental in navigating the challenges faced during the project.

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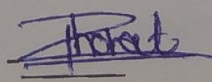
My special thanks go to my project guide, Ms. Ankita Rayate Ma'am, for her constant encouragement, support, feedback, and expert guidance. Her confidence in me helped me overcome various challenges and gain a deeper understanding of the subject matter.

I would also like to thank the faculty members of the Department of Chemistry for providing me with a conducive learning environment and practical experience.

Additionally, I am grateful to my family members for their unwavering support and encouragement throughout the project.

Place: Sinnar

Date 22/04/2025

Sign 

Name- Rupali Maruti Thorat