

**Synthesis and Characterisation of Polyaniline supported  
 $\text{Mn}_{1-x}\text{Ni}_x\text{Fe}_2\text{O}_4$  ( $x=0.2,0.4,0.6$ ) and its use as Catalyst in Selective Oxidation  
of Benzyl Alcohol to Benzaldehyde.**

A Dissertation for

Course code and Course Title: CHC -651 dissertation

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M.Sc. in Physical chemistry

by

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MASTER OF SCIENCE IN CHEMISTRY



GOA UNIVERSITY  
गोंय विद्यापीठ



Date: 03/05/24

Examined by:

*Ragurkar*

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*03/05/2024*

Seal of the School

### DECLARATION BY STUDENT

I hereby declare that the data presented in this Dissertation report entitled, "Synthesis and characterization of polyaniline supported  $\text{Mn}_{1-x}\text{Ni}_x\text{Fe}_2\text{O}_4$  ( $x= 0.2, 0.4, 0.6$ ) and its use as a catalyst in the selective oxidation of benzyl alcohol to benzaldehyde," is based on the results of investigations carried out by me in the Physical Chemistry at the School of Chemical Sciences, Goa University under the supervision of Dr. Diptesh G. Naik and the same has not been submitted elsewhere for the award of a degree 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.

I hereby authorize the University authorities to upload this dissertation on the dissertation repository or anywhere else as the UGC regulations demand and make it available to any one as needed.



Omkar Shankar Chodankar

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Date: 29/04/2024

Place: Goa University

## COMPLETION CERTIFICATE

This is to certify that the dissertation report "Synthesis and characterization of polyaniline supported  $\text{Mn}_{1-x}\text{Ni}_x\text{Fe}_2\text{O}_4$  ( $x=0.2, 0.4, 0.6$ ) and its use as a catalyst in the selective oxidation of benzyl alcohol to benzaldehyde," is a bonafide work carried out by Mr. OMKAR SHANKAR CHODANKAR under my supervision in partial fulfilment of the requirements for the award of the degree of Master of Science in the discipline Physical Chemistry at the School of Chemical Sciences, Goa University.



Dr. Diptesh G. Naik

Assistant Professor, Physical Chemistry

Date: 29/04/2024



Prof. Vidhyadatta M. Shet Verenkar

Dean, School of Chemical Sciences

Date: 29/04/2024

Place: Goa University



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