

# SYNTHESIS, CHARACTERIZATION AND CATALYTIC APPLICATION OF COPPER AND MANGANESE PROLINE

Dissertation Report

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Submitted in partial fulfilment of Master's Degree  
M. Sc Part II, Analytical Chemistry

By

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Under the Supervision of

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**GOA UNIVERSITY**

**Date: APRIL 2024**



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## DECLARATION BY STUDENT

I hereby declare that the data presented in this Dissertation report entitled, "SYNTHESIS, CHARACTERIZATION AND CATALYTIC APPLICATION OF COPPER AND MANGANESE PROLINE" is based on the results of investigations carried out by me in "Analytical Chemistry" at the School of Chemical Sciences, Goa University under the Supervision/Mentorship of DR. KIRAN DHAVASKAR 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 not be responsible for the correctness of observations / experimental or other findings given in 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.

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## COMPLETION CERTIFICATE

This is to certify that the dissertation "SYNTHESIS, CHARACTERIZATION AND CATALYTIC APPLICATION OF COPPER AND MANGANESE PROLINE" is a bonafide work carried out by Mr SAINESH RAMAKANT NAIK under my supervision/mentorship in partial fulfilment of the requirements for the award of the degree of Master of Chemistry in the Discipline of Analytical Chemistry at the School of Chemical Sciences, Goa University.



DR. KIRAN DHAVASKAR

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Date: 29/4/24



Prof. V.M.S. Verenkar

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Date: 29/04/2024

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