

Certificate

CERTIFICATE

This is to certify that the thesis, entitled **“APPLICATION OF BENZODIAZEPINES, BENZOTHIAZEPINES AND BENZOXAZEPINES AS INHIBITORS FOR CORROSION OF METALS IN ACID MEDIUM”** submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of **DOCTOR OF PHILOSOPHY IN CHEMISTRY** is a record of original research work done by **Ms. T. SASIKALA** during the period **2012-2016** of her research in the **Department of Chemistry** at **PSGR Krishnammal College for Women** (College/Research Institute/ Bharathiar University) under my supervision and guidance and the thesis has not formed the basis for the award of any Degree/Diploma/Associateship/Fellowship or other similar title of any candidate of any University.

Date :

Signature of the Guide

Place :

Countersigned

Head of the Department

Principal

Declaration

DECLARATION

I, **Ms. T. SASIKALA**, hereby declare that the thesis, “**APPLICATION OF BENZODIAZEPINES, BENZOTHIAZEPINES AND BENZOXAZEPINES AS INHIBITORS FOR CORROSION OF METALS IN ACID MEDIUM**”, submitted to the Bharathiar University, in partial fulfillment of the requirements for the award of the Degree of **DOCTOR OF PHILOSOPHY IN CHEMISTRY** is a record of original and independent research work done by me during **2012-2016** under the Supervision and Guidance of **Dr. (Mrs.) K. PARAMESWARI, M.Sc., M. Phil., Ph.D.**, Associate Professor, Department of Chemistry and it has not formed the basis for the award of any Degree / Diploma / Associateship / Fellowship or other similar title to any candidate in any University.

Signature of the Candidate

(T. Sasikala)

Date:

Place:

Genuineness of Publication

CERTIFICATE OF GENUINENESS OF THE PUBLICATION

This is to certify that Ph.D. candidate **Ms. T. SASIKALA** working under my supervision has published a research article in the standard refereed/SCI journal named **Oriental Journal of Chemistry** with **Vol. No 32(2)**, Page No's: **1215-1222** and year of publication **April 2016** published by **Oriental Scientific Publishing Company**. The contents of the publication incorporate part of the results presented in her thesis.

Countersigned

Research Supervisor

Principal / Head of the Dept. / Director
(College / University / Institute)

Acknowledgement

ACKNOWLEDGEMENT

I take this opportunity to express my sincere gratitude to the Management and **Dr. (Mrs) N. YESODHA DEVI M.Com., Ph.D.**, Secretary, PSGR. Krishnammal College for Women, Coimbatore for granting me permission to undertake the project work.

I express my profound gratitude to the Principal **Dr. S. NIRMALA MBA., M. Phil., Ph.D.**, PSGR Krishnammal College for Women, Coimbatore, for her constant support and guidance.

I heartily owe my sincere gratitude to **Dr. A. SHAMITHA BEGUM M.Sc., M. Phil., Ph.D.**, Dean, Academic affairs, for her unending help in every steps, constant motivation and encouragement.

I am extremely grateful and highly thankful to the **DEANS** of various affairs, PSGR Krishnammal College for Women, Coimbatore for their valuable support towards the successful completion of the thesis.

With deep sense of gratitude, I express my immense thanks to **Dr. SUBRAMANIAN CHITRA M.Sc., M. Phil., Ph.D.**, Associate Professor and Head, Department of Chemistry, PSGR. Krishnammal College for Women, Coimbatore, for providing all kinds of possible help, valuable suggestions and advice during the course of my research.

I have immense pleasure in expressing my sincere gratitude to my guide, **Dr. K. PARAMESWARI M.Sc., M. Phil., Ph.D.**, Associate Professor, Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore for providing scholarly guidance and valuable support, constant encouragement and deep involvement which helped me in the effective completion of the thesis.

I express my heartfelt gratitude to all the **Faculty Members in the Department of Chemistry** for their help and moral support.

I take pleasure in thanking the **Non-Teaching Staff and Research Scholars of Department of Chemistry** for their help and co-operation.

I would like to express my gratitude to all the **Faculty Members, Friends, Research Scholars, Department of Biotechnology, Hindusthan College of Arts and Science** for their valuable advice and continuous support regarding my research work.

I heartily owe my sincere gratitude to **Mr. P. SenthilKumar**, Lab Technician, Hindusthan College of Arts and Science for his timely help during the course of my work.

I cherish to acknowledge the benevolence of my **Parents, Family Members, my Husband** and my **Son** for their constant love, encouragement, enthusiasm, blessing, co-operation and support during the entire course of study.

T. SASIKALA