

## PREFACE

The work in this thesis entitled “**Bioinspired functional models of non-heme oxygenases**” was initiated in 2010 under the supervision of Dr. P. BANDYOPADHYAY and Dr. A. N. BISWAS in the Department of Chemistry, University of North Bengal. This research was realized with financial support from Council of Scientific & Industrial Research (CSIR) and Department of Science & Technology (DST), Govt. of India.

The work is mainly focused on the development of functional mimics of enzymes that contain nonheme iron centres in their active sites with the ultimate goal of designing suitable catalytic systems for oxyfunctionalization of hydrocarbons under ambient condition.

I was highly inspired by my listening and interacting with distinguished experts and scientists during the course of my research work through participation in several meets and seminars across the country. I was even fortunate enough to publish the works in the thesis in International Journals of repute.

In keeping with general practice of reporting scientific observation, due acknowledgement has been made whenever the work described was based on the finding of other investigators. I must take the responsibility of any unintentional oversights and errors, which might have crept in spite of precautions.

I hope that I will be given more challenges in my life so that the knowledge that I have earned during my work can be put into action in the future.

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