

ACKNOWLEDGEMENTS

It is a pleasant aspect that I have now the opportunity to express my gratitude for all of them who accompanied and supported me in this journey of completing my Ph.D.

*First of all, I would like to express my deepest sense of gratitude and everlasting respect to my Research Supervisor **Prof. P. Padmaja Sudhakar**, Department of Chemistry, Faculty of Science, under whose eminent guidance; I have carried out my research work. It was her keen interest, constant encouragement and valuable suggestions and guidelines, through supervision in every matter, which enabled me to complete this work. Her scholarly suggestions, prudent admonitions, immense, constant help and affectionate behavior have been a beacon of light for me. Her suggestions will remain with me as an inexhaustible source of scientific learning throughout my life.*

*I am thankful to **Prof Surekha Devi and Prof B.V. Kamath** for the constant support for my Research work.*

*I am also thankful to **Prof. N. D. Kulkarni**, Head Department of Chemistry for the constant support during Research work.*

*It gives me immense pleasure to acknowledge the help, co-operation, continuous support, suggestions, encouragement and involvement rendered by **Dr Kamlesh Kumar Vishwakarma, Jitendra Kumar Singh, Dr Shilpi Kushwaha, Harnish Soni, Rahul Bhatt, Dr S. Ageetha, Abhishek Mishra, Mohini Sadhu and Ronak Bhatt** during my Ph.D work.*

I would thank all Research Scholars in Department of Chemistry for the constant support during my Research work.

*I would like to thanks **Dr. S. Y. Pandey (Head), Dr Abhay Deshpandey and Dr. Manishi Agrawal, Jai Research Foundation, Vapi, Gujarat,** for providing the facilities for research. His inspiring guidance and constant motivation have helped me to understand better and remain optimistic.*

*I am grateful to **Dr. Bipul Behari Saha (Head) Nagarjuna Agrichem Ltd.,** who inspired my interest in Science and ushered me towards a career in pesticide. True mentors are the anonymous reviewers who showed the rationale of research to me. This has greatly helped in improving the insights, skills and taught process in the approach, design and analysis of research problems.*

- Sunil Kumar Singh