ACKNOWLEDGEMENT

Words fail I wish to express me as indebtedness and deep sense of gratitude to Dr. C. R. Jejurkar, Reader, Applied Chemistry Department, Faculty of Technology and Engineering, M. S. University of Baroda for suggesting the topic for investigation. highly obliged and thankful to him for taking keen interest in the problem and for his valuable guidance throughout the progress of this work.

I am highly obliged by Prof. R. A. Vora, Head, Applied Chemistry Department, Faculty of Technology and Engineering, Baroda for providing me the necessary facilities.

I also extend my sincere thanks to Prof. P. K. Bhattacharya and Head, Chemistry Department, Faculty of Science, Baroda for magnetic measurements, IR spectra and elemental Analysis.

I am also grateful to the Heads, Textile Chemistry Department and Environmental Department, Faculty of Technology and Engineering, Baroda for providing facilities to study the pigmentation and biological activities of the complexes respectively.

I shall remain obliged to Dr. H. S. Patel, Reader, Chemistry Department, S.P. University, V. V. Nagar and Management of Satyadev Chemicals Ltd., Baroda for their kind co-operation.

Last but not least I express my thanks to Mr. S. L. Patel land Shri Madhavrao for microanalysis and also to my colleagues, friends and parents for providing me the suitable environment and stimulating ideas.

-V. K. PATEL