ACKNOWLEDGEMENTS

I express my indebtedness and deep sense of gratitude to late Dr. R.M. Purohit, M.Sc., Ph.D., Assistant Professor in the Department of Chemistry, under whom the present work was started and to Prof. S.S. Nigam, M.Sc., Ph.D. (Sagar), Ph.D. (London), D.I.C., F.R.I.C., F.N.A.Sc., Head, Department of Chemistry and Dean, Faculty of Science, University of Sagar, Sagar (M.P.) who filled in the gap created by the sad and untimely demise of Dr. R.M. Purohit and helped me in completing the present work.

I am highly obliged to Dr. C.K. Atal, Director, Regional Research Laboratory, Jammu/Srinagar for his kind help and encouragement throughout the work. I also express my gratitude to Dr. K.L. Dhar, Scientist, RRL, Jammu, for several helpful suggestions.

I wish to express my sincere thanks to Dr. G.S. Sidhu, Director and Dr. T.N. Parthasarathy, Scientist, RRL, Hyderabad, Dr. John Koshy, Lehr stuhl fur anorganische chemie, University of Tubingen, W. Germany, Mr. T.K. Alex, lIsRO, Trivandrum and Miss Jalali, RRL, Jammu, for providing me with the spectral data and elemental analyses presented in this work.

I am grateful to all my friends and colleagues at Srinagar, Jammu and Sagar, especially Mr. and Dr. (Mrs.) V.C. Varghese.
I owe so much to my parents and to my Father-in-law Mr. G.S. Abraham, for their kind help and encouragement. I express my deep sense of gratitude to them.

I thank my wife, Rani, for all her help, encouragement and understanding patience.

V. George

(Varughese George)