ACKNOWLEDGEMENT

It is my great pleasure that I express my deep sense of gratitude to Dr. S.A.Patil, Lecturer in Physics, Shivaji University, Kolhapur for his valuable guidance, constant encouragement throughout the present work.

It is my pleasant duty to express my sincere thanks to Dr.R.N.Patil, Professor and Head, Department of Physics, Shivaji University, Kolhapur for providing me the laboratory facilities and necessary encouragement.

I express my sincere thanks to Dr.S.R.Sawant, Lecturer in Electronics, Department of Physics, Shivaji University, Kolhapur for the valuable suggestions and thought provoking discussion regarding the present work.

I am thankful to Dr.C.Radhakrishnamurty, Tata Institute of Fundamental Research, Bombay for his valuable suggestions and co-operation in Magnetization measurement at 77°K.

I extend my sincere thanks to teaching and non-teaching staff of Physics Department for their kind co-operation. My acknowledgement will be incomplete if I fail to offer my thanks to my colleagues $Dr.\ S.D.$ Lotke and $Shri\ S.S.$ Suryavanshi for their cardinal cooperation.

I am grateful to the Principal, Mudhoji College, Phaltan and the authorities of Phaltan Education Society, Phaltan for their encouragement and co-operation.

Finally, I thank Miss Geeta Gosavi for efficient, neat and speedy typing.

Place: Kolhapur

Date: 16-10-1989