



ACKNOWLEDGEMENT

ACKNOWLEDGEMENT

An effort at any level is satisfactorily completed with the support and guidance of learned people.

I express my gratitude to **Dr T.S.K.Meenakshisundaram, M.A., M.Phil., Ph.D,** Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for providing the necessary facilities to conduct this study.

I express my grateful thanks to **Dr (Mrs) Sheela Ramachandran M.Sc., P.G.Dip., Ph.d,** Vice Chancellor, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for giving me the provision to do the research work.

I express my heartfelt thanks to **Dr (Mrs) Gowri Ramakrishnan M.Sc., M.Phil., Ph.D** Registrar, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for rendering adequate help required to carryout the work.

I would like to render my special thanks to **Dr (Mrs) R.Parvatham M.Sc., Dip. Ed., M.Phil., Ph.D** Dean, Faculty of Science, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her constant motivation during this study.

I wish to express my deep sense of gratitude to **Dr. (Tmt.) R. Shyamala, M.Sc., Dip. Ed., (Madras), M.Phil., Ph.D** Head of the Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for her amiable support and encouragement throughout the work

Words can hardly substitute the immense depth of gratitude and indebtedness that I owe to my guide **Dr.R.Rajalakshmi, M.Sc., B.Ed., M.Phil., Ph.D** Associate Professor, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for initiating me into this field of research and for her untiresome guidance, perpetual encouragement, incalculable help, invaluable suggestions and instant provision of all the requirements throughout the course of this work.

I would like to express my sincere thanks to all the staff members in the Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore for their help and advice.

I am thankful to **The Management, The Secretary and The Principal, PSGR Krishnammal College for Women** for permitting me to carry out my research successfully.

My heartfelt thanks are due to **Dr A.Shamitha Begum**, Head and Associate Professor, Department of Chemistry and all our faculty members in the Department of Chemistry, PSGR Krishnammal College for Women, Coimbatore for their help and encouragement through out my research programme.

I express my special debt of gratitude to **Dr Kumaresan**, Head, Department of Physics, Government Arts College, Coimbatore and **Mr Sadasivam**, Assistant Professor in Physics, Bannari Amman Institute of Technology, Sathyamangalam for their help rendered.

I am extremely thankful to **The Director**, Central Electrochemical Research Institut, Karaikudi for his kind permission to carry out my literature survey in the esteemed CECRI library.

I place my warmest thanks to **Mrs A. Prithiba**, Assistant Professor in Chemistry, **Miss M.Srimathi**, Ph.D Scholar, **Mrs S.Leelavathy**, Ph.d Scholar, Department of Chemistry, Avinashilingam Institute for Home Science and Higher Education for Women, Coimbatore and **Miss P.R.Vijayalakshmi**, Associate Professor in Chemistry, Dr.GRD College of Arts and Science, Coimbatore, for their timely help and constant encouragement throughout the course of the research.

I owe a world of thanks to my Parents, Sister, my Husband and my son **K.Vimal Kumar** for their patience, co-operation, support and encouragement at all times.

I am grateful to each and every soul who had helped me in one or other way in making this study a great success.

Finally, I thank Almighty for providing me the Strength, to complete my Research work successfully.