

ACKNOWLEDGEMENT

A work like this by a young research student like me would not have been conceived and completed without the kind and able guidance of Dr. J. M. Lohar, my guide, mentor, Professor and Head, Applied Chemistry Department, Faculty of Technology and Engineering, M. S. University of Baroda. He not only suggested me the problem, but took an active, keen and personal interest in my work and helped me tide over some occasions of frustration and disappointment by his inspiring, encouraging, affectionate and invaluable guidance. My debt to him is too great to be expressed in words. I owe him very heavily and take this opportunity of expressing it.


I am grateful to Dr. M.H. Mehta, General Manager, Research and Development and Dr. G. H. Thanki, Senior Corrosion Technologist, G.S.F.C. Ltd, Baroda for their continuous encouragement and valuable suggestions. I am also thankful to Professor S.B.Pandya, Dean, Faculty of Technology and Engineering, for having provided me the necessary facilities.

I express my deep sense of gratitude to Shri S.P. Srivastava, Director (Technical) and Dr. A.N.Misra, Manager, Research and Development, G.A.C.L Baroda for taking keen interest by giving encouragement in completion of this work.

I also acknowledge the help of Shri S.T.Bhatt, Reader, Applied Chemistry Department who have helped me from time to time. I am indebted to my close friends and colleagues and well wishers whose kind co-operation and active help have been instrumental in completion of this work. I express my thanks to all my colleagues and staff members who have helped me from time to time.

Thanks are due to Mr. Titus who has taken all the pains in preparing typescripts.

I simply fumble to find adequate words to express my indebtedness to my parents, wife, brothers, sisters and sons who underwent all the inconveniences for a long duration of time with all smiles in the face of all sorts of addities. All I can say is that this thesis is the fruit of their best wishes for me.


Siddhartha Shukla