## **ACKNOWLEDGEMENT**

I take this opportunity to express my sincere thanks to various people and organisations who helped me to complete my research work for this thesis.

At the outset I would like to express my deepest sense of gratitude to my teacher and research guide Prof.A.K.Rakshit, for his excellent guidance, constant encouragement, valuable suggestions, constructive criticism and above all for his personal attention.

I am very much thankful to Prof.A.C. Shah (Head of the Department) for providing me the departmental facilities.

I gratefully acknowledge the financial assistance from Oil and Natural Gas Commission (ONGC), India during the tenure of this research work. I also owe a special word of thanks to the Director, Institute of Reservoir Studies, ONGC, Ahmedabad and Scientists in the tertiary Lab, of that Institute for permitting me to use their laboratory facilities for the IFT measurements.

I thank Dr.C.Manohar, (Head, Physical Chemistry Division, BARC, Trombay, Bombay) for kindly allowing me to do the Light Scattering measurements in his laboratory. I am also thankful to his research group for their help.

Thanks are also due to Prof.S.P.Moulik (Jadavpur University) for the valuable suggestions he gave me at the early stage of my work.

I take this opportunity to express my gratitude to all my teachers in the department for their encouragement and help.

I am also thankful to my friends Dr. Noble George and Mr. Robin Antony of IPCL, Baroda for their continuous help.

I am indebted very much to my senior colleagues Dr.Roychen Joseph and Dr.Veena Vangani for providing an excellent working atmosphere through their natural scientific temperament and sense of humour.

I feel indebted to my friends in the department, hostel-as well as in the city for joyous and intellectual company which gave me much needed elixir to complete this work.

I want to express my gratitude to my very special friends, Ajith Cherian John and Alpana A Gami for standing by in every occasions and caring for my feelings.

I am grateful to Panicker uncle, Sheela aunty, their children and Ammini Aunty and family for the affection and care they showed to me during my stay here in Baroda.

After all, it is the love, blessings and prayers of my Thottamma, parents, brothers, sister, and relatives which gave me strength to successfully complete this research work. My respect, love and affection towards them know no bound.

Lastly but not the least I would like to thank Mr.P.G.Cherian for efficient typing work.

AJITH S.