ACKNOWLEDGEMENT

I take this opportunity to express my first and foremost sincerest gratitude to my supervisor, Dr. Pranab Ghosh, Associate Professor, Department of Chemistry, University of North Bengal, Darjeeling, under whose guidance, constructive criticism and close attention, the present work was carried out.

I am thankful to Indian Oil Corporation, Dhakuria, Kolkata and also to Bharat Petroleum Corporation, Matigara, Siliguri for supplying Lubricating oils used throughout the investigation.

I acknowledge my indebtedness to Dr. A. K. Nanda, Associate Professor, Department of Chemistry and Dr. Sajal Das, Assistant Professor, Department of Chemistry, University of North Bengal to take NMR spectra of a number of compounds mentioned in the thesis.

I am thankful to Prof. (Dr.) S. K. Saha, Department of Chemistry, for allowing me to perform, in his laboratory, the shear stability measurements of some of the prepared polymers. I am sincerely thankful to all the teachers in the department of chemistry for their constant inspiration and helpful suggestions.

I am very much thankful to my family members, my beloved parents, my loving wife, my loving son and my brother for their constant co-operation and encouragement. Without their constant support I would never have been able to finish my research work.

I am thankful to Dr. Tapan Das for his valuable suggestions throughout the period of my research work.

I am thankful to other research scholars of this laboratory for various helps rendered during the whole work of the study.

Finally, I would like to express my thanks to University of North Bengal for providing the infrastructural facilities.