ACKNOWLEDGEMENTS

I would like to express my heartfelt gratitude to my research guide Prof. Amitava Bose of Indian Institute of Management, Calcutta for his continuous guidance, suggestions and encouragement during the course of my investigation. I am very much indebted to Prof. Bose who has spared his invaluable time and thought from his pre-occupations to assist me at every stage of this study.

Thanks are due to Dr. Arup Mallick, Dr. Ashim Das Gupta, Dr. Kallyan Sanyal, Dr. Tamal Dutta Chowdhuree, Dr. P.N.Roy, Mr. Anindya Sen and Miss Sarmila Banerjee, of the University of Calcutta; and to Prof. D.K.Sinha of Indian School of Mines for their keen and continuous interest in this work.

I am also thankful to Mr. D.K.Sarker for drawing the diagrams, to Mr. S.Mitra for his help in different ways in the final completion of the thesis, and to Sri B. Paramanik who has spared his invaluable time from his family work to complete the typing of the thesis.

The responsibility for any errors that remain is, of course, entirely mine.

CALCUTTA
MAY, 1984

( MANASH RANJAN GUPTA )