ACKNOWLEDGMENT

I take this opportunity to express my deep sense of gratitude to my guide and teacher Dr. C.S. Shah, B.Sc. (Bom.), D.Sc. (Germany), Principal and Professor of Pharmacognosy, for his valuable guidance, constant encouragement and constructive criticisms throughout the course of this work.

I sincerely thank Dr. J.S. Qadry, Dr. G.C. Bhavsar and all my colleagues of the College for their constant help and inspiration which enabled me to complete the present work.

My thanks are due to Mr. S. Kalyansundaram, Chief Botanist, Government Cinchona Plantation, Dodabetta, for supplying Ooty fennel fruits and Dr. V. Subbarao, Department of Pharmacy, Andhra University, Waltair, for supplying Vizag sowa fruits. My thanks are due to the authorities of Royal Botanic Gardens, Kew, England, for the identification of Ooty fennel fruits. My sincere thanks are also due to Dr. C.K. Atal, Regional Research Laboratory, Jammu and Dr. Willmar Schwabe, West Germany, for supplying the reference substances required during the present work.

My thanks are due to Dr. A.S. Divatia, ATIRA, Ahmedabad; Dr. C.L. Kaul, Ciba Research Centre, Bombay; Mrs. V. Dunker, Institute fuer Pharmazeutische Arzneimittel - ehre, Munich; Dr. R.S. Medora, School of Pharmacy, University of Montana, U.S.A.; and Dr. K.B. Shah and Dr. C.J. Sanchorawala, Vikram A. Sarabhai Community Science Centre, Ahmedabad; whose valuable help enabled me to analyse the different components of volatile oils investigated in the present work.

(Mrs. Malati G. Chauhan)