ACKNOWLEDGEMENTS

The author expresses his sincere gratitude to his guides, Dr. Y.V. Somayajulu (ex-Head RSD) and Dr. T.R. Tyagi, Radio Science Division under whose guidance this work has been carried out. Numerous helpful suggestions and criticism by them have been immensely useful.

The author is indebted to Dr. B.M. Reddy, Head, Radio Science Division for useful suggestions, keen interest and encouragement throughout the course of this work.

The many useful discussions I had with Dr. M.N.M. Rao, Dr. K.K. Mahajan, Dr. B.C.N. Rao, Dr. A.R. Jain, Dr. D.R. Lakshmi, Mrs. S. Aggarwal, Dr. A. Sengupta, Dr. P.K. Paricha and Dr. R.S. Dabas have gone a long way in the completion of this work and are thankfully acknowledged.

I am particularly grateful to my colleagues, Mr. S.C. Garg, Dr. K.S. Zalpuri, Mr. P.N. Vijayakumar, Mr. P. Subrahmanyam and Mr. J.K. Gupta for useful scientific discussions and the help in preparing the thesis; Mr. S.R. Bakshi, Mr. Vishram Singh, Mr. N.N. Kaul, Mr. Hitesh Jain for technical help in running the satellite beacon receivers; and Mr. Naresh Arora, Mrs. Gurinder Pal Kaur, Mr. D.B. Sharma, Mr. Pritam Singh, Mr. B.B. Chopra R. Wadhwa and Miss Anusuiya for their secretarial help at various stages of this work.

Lakha Singh

Radio Science Division
National Physical Laboratory
New Delhi-110012