ACKNOWLEDGEMENT

Developing countries initiated science education programmes during 1960s to keep pace with the growing culture of science. India started formal and non-formal programmes to develop an understanding as well as an appreciation of science among school children. A major shift towards development of indigenous science curriculum and science teacher education programmes were essential to satisfy socio-academic needs. How far such programmes have achieved the expected goals is a question to be answered? This humble research is an attempt in this direction.

The investigator had an opportunity to visit Singapore in June, 1996 and 2001, where he visualised the importance of understanding of science. This small but developed nation has re-emphasized on the development of Public understanding of Science, which was supported by the Royal Society Report (1985), The Public Understanding of Science. This Thesis is a result of such experience and impetus.

I have been indebted to a number of persons in the course of this research work, it would have been impossible for me to work without their co-operation and encouragements. As such it is my duty to acknowledge their co-operation earnestly and to express my sense of gratitude to them.
First of all I express my sincere and heartiest gratitude to my supervisor, Dr. Ram Lakhan Vishwakarma, Reader, Department of Teacher Education, D. V. (Post Graduate) College, Orai, for his crucial supervision and guidance with untiring efforts. He has always been a perennial source of inspiration to me.

I have no words to express my indebtedness to my well-wisher academicians Prof. Raman Bihari Lal, Ex Head, Deptt. of Teacher Education, D. V. (Post Graduate) College Orai; Dr. R. P. Bhatnagar, Ex. Prof. and Head Deptt. of Education, Meerut University; Dr. Subash Agrawal, Ex. Prof. Deptt. of Education, Banaras Hindu University; Dr. Y. K. Gupta, Reader, Post Graduate Deptt. of Education, Hindu College Moradabad; and Dr. R. P. Pathak, Reader, Deptt. of Education, Faculty of Modern Science Learning, L. B. S. Sanskrit Vidya Peeth (Deemed University) New Delhi, for their valuable guidance and encouragement from time to time which helped me a lot in the completion of my work.

I also express my deep regard and profound sense of gratitude to my teachers Late Dr. B. K. Sharma, Prof. & Deen Department of Education, C. C. S. University, Meerut, Dr. R. A. Sharma, Ex. Prof. Head, Deptt. of Education, C. C. S. University, Meerut; Dr. J. P. Srivastava, Ex. Prof. & Head, Deptt. of Education C. C. S. University, Meerut and Dr. (Mrs) Suraksha Pal, Prof. & Head, Deptt. of Education, C. C. S. University, Meerut, for their constant inspiration and academic guidance.
I have special thanks to Dr. Taresh Bhatia, Reader, Deptt. of Psychology, D. V. (Post Graduate) College, Orai, for processing and calculating the data on computer.

I also express my deep sense of gratitude to my Principal, Dr. N. D. Samadhiya, my Head of Deptt. Dr. (Mrs) Yogyata Kulshrestha, my senior colleagues Dr. S. P. Srivastava, Dr. R. N. Manav, Dr. (Mrs) Shailja Gupta and my contemporary colleagues Mr. Arun Kumar and Mr. Yogendra Bechain for their co-operation.

With innermost feelings and sincerity I express my gratitude to my parents for their kind and sympathetic encouragement and all necessary help.

I can't forget to thanks my wife, whose affection and encouragement goes all the way in teaming of my patience, has given me the confidence to accomplish the work.

I am grateful to the Principals, teachers and students of various schools of Jhansi Region, for their valuable co-operation during the period of collecting the data of this study.

Finally, I would like to extend my thanks to Mr. Anil Mishra, for neat and timely computer typing of the research.

Orai
The World Environment Day
2007

(Ramendra Kumar Gupta)