ACKNOWLEDGEMENT

I have great pleasure in recording my profound indebtedness to Dr. K.M. Vyas, Professor and Head, Department of Botany, Dr. Hari Singh Gour Vishwa Vidyalaya, Sagar for his valuable guidance and constructive criticism, deep and sustained interest throughout the course of the present work. His timely suggestions and advice which were readily and freely available have been of immense help in these investigations. It was worth a great advantage, a privilege for me to have carried out this work under his supervision.

I express my deep sense of gratitude to Dr. S.K. Jain, Scientist, Plant Breeding and Genetics, J.N. Krishi Vishwa Vidyalaya, Regional Agricultural Research Station, Sagar for constant encouragement, help and suggestions.

I acknowledge my sincere thanks to the Honourable Vice Chancellor, Director Research Services, Dean, Student's Welfare, JNKVV, Jabalpur and Honourable Vice Chancellor of Sagar Vishwa Vidyalaya for giving me permission to undertake this piece of work.
My thanks are also due to Dr. V.N. Shroff, Dean, College of Agriculture, Indore for providing adequate Lab and field facilities.

I wish to record my sincere thanks to Dr. J.P. Tiwari, Dr. R.P. Pandey, Shri G.S. Thakur, Shri K.C. Trivedi, Dr. O.P. Patel and Dr. M.S. Trifale for their generous co-operation and encouragement during the course of this study.

Grateful thanks are due to Dr. R.S. Verma, Shri H.K. Khosla, Shri S.K. Upadhyya, Dr. P.D. Gaikwad, Dr. P.K. Nigam, Shri P.D. Gupta, Shri N.K. Sharma, Shri S. Nayak, Dr. K.K. Shrivastava, Shri R.A. Gaur, Shri B.K. Nema, Shri M.C. Soni, JNKVV, Jabalpur and Dr. O.P. Tiwari, Medical College, Indore for time to time help and encouragement.

I wish to express my thanks to Shri S.C. Pandya, Associate Professor Statistics for his help in statistical analysis of the data, Dr. U.S. Thakur, Librarian for providing the library facilities and Shri Daniel Kamble for taking keen interest in typing.

I will be failing, if I will not express my feelings to my parents, wife Smt. S. Katare, son Om Prakash, daughter Smt. Kalpana Patsariya, Ku. Meena and Vindhya for their encouragement, help and inspiration during research period.

Dated: 24/11 Nov. 1986

[Signature]

Daya Shanker Katare