ACKNOWLEDGEMENTS

Soulfully and with limitless humanity, I am grateful to God, the Almighty, for bestowing me with such affectionate parents, whose love, dedication and inspiration encouraged me to undergo higher studies. Their selfless persuasion and sacrifice, blessings and firm faith have made this manuscript a penny remuneration to transfer their dreams into reality.

Indeed the words at my command are not enough to put on records my sincere and heartfelt gratitude to my learned and revered supervisor, Dr. Ganesh Singh, Reader (Retired) Udai Pratap College (An Autonomous Institution) Department of Horticulture Varanasi, for his scientific acumen and superb guidance in conduct of research and attentive scanning of this manuscript. His vast enriched experience as an eminent agricultural scientist enabled me to accomplish my research work with tangible results. I shall ever remain indebted to him for his benevolence and affection.

I am equally thankful to Dean, Udai Pratap College (An Autonomous Institution) Varanasi for his valuable suggestions, facilities and guidance received from him time to time during the course of my research work.

With an overwhelming sense of legitimate pride and genuine obligation which give me exuberant pleasure and privilege, I take this opportunity to express my deep sense of gratitude to Dr. K. L. Sharma (Co-supervisor) for his excellent and valuable guidance, vigilant supervision, inspiration and ever encouraging affectionate attitude.

I am equally thankful to Dr. B. L. Sharswat Udai Pratap College for their valuable suggestions and guidance received from them time to time during the course of my research work.

I am availing this opportunity to express my thanks to Dr. D.K. Sharma, Professor and Head, Department of Tea Husbandry and Technology CSKHPKV, Palampur, who directly and indirectly was involved in inducing an academic and research talent in me.

I feel my utmost duty to express my thanks to CSKHPKV, Palampur for extending all necessary facilities as and when required and Tea Board of India (for funding the project under which research work was carried out).

I feel honoured in expressing my warm thanks to Dr. Nageshwar Singh CSKHPKV, Palampur, for his resourcefulness and encouragement which help me to enroll in PhD programme.

My thanks are also due to all the members of laboratory, field and ministerial staff of Department of Tea Husbandry and Technology and Soil testing lab Palampur, Dept. of Agriculture (H.P).
No expression of thanks will be sufficient for my little daughter "Vedika" who has suffered a lot during the course of this study because I used her share of time for this purpose.

I am yet to find suitable words to express my heartfelt thanks to my beloved wife Dr. (Mrs.) Sonika for providing spectrum of help, sharing my responsibilities at the most crucial moments and encouraging me during the period of my study.

The benevolence affection and blessings of my revered in-laws are not to be acknowledged in words but one to be felt in the deeper layers of my heart with great regards.

My special thanks are due to Dr. N.K. Sankhayn, Sh Deshraj and other lab staff of Dept. of Soil Science CSKHPKV, Palampur for their co-operation and guidance to carry out the analytical work. Thanks are also due to Kanika who looked after my little and sweet baby during the course of this study.

Time stops moving, when I think of acknowledging the nice company and unwavering help of my friends especially Dr. Surendr Sharma, Milap Chand, Ramesh Chander, Chunilala Sharma, Ramesh Kumar, Pyarchand, Dr. Ajay Singh, Dr. Munish Singh, Neerav Vashist and Gagnesh Sharma who kept me in an exalted state even during the moments of despondency and were always with me with supporting hands. I am also thankful to my seniors, juniors and colleagues for their co-operation and help.

Finally, I also acknowledge my sincere thanks to all those whom I am indebted on various occasions but have not named personally.

Needless to say all the errors and omissions are mine.

Place: Varanasi
Date: 3-10-2009

(Parmod Verma)