Acknowledgements

I thank the Almighty, whose blessings have enabled me to accomplish this work successfully. It is my pride privilege to express my sincere thanks and deep sense of gratitude to my supervisor Dr. Archana Singh, Department of Botany, Govt. M.S.J.P.G. college, Bharatpur and co-supervisor Prof. Padma Kumar, Department of Botany, University of Rajasthan, Jaipur, for their valuable advice, splendid supervision and constant encouragement in pursuance of this work. Their association with this endeavor of mine will remain a beacon light to me throughout my life.

My special thanks are due to Prof. K. P. Sharma, Head, Department of Botany, University of Rajasthan, Jaipur for providing me all the facility in the department which had enabled me to complete my research work without any hurdle.

My gratitude is due to Dr. Sudhakar Mishra for his generous help during plant identification and collection. I also acknowledge Prof. S. C. Jain for his encouragement and support during the progress of my research.

I do not find enough words to express my feeling of thanks to my dear friends Ms. Geeta Singh and Mrs. Keerti Gautam for their invaluable suggestions, timely help, constant support and encouragement that went a long way in successful completion of my work.

I would like to acknowledge the cooperation received from my seniors Dr. Preeta Chauhan, Dr. Amrit Lal Meena, Dr. Bindu Sharma, Dr. Neelam Mewari, Dr. Premlata Singaria, Dr. Shweta Yadav, Dr. Alka Jindal, Dr. Rashmi Chabra, and Dr. Bosky Pancholi.

My deep appreciation goes to my research colleagues Mredula Trivedi, Meenakshi Fartyal, Hari Om, Jaishree and Priyanka for their support and help in research work.
My family deserves special mention for their inspirable support. Words are insufficient to express my hearted thanks to my respected parents **Smt. Kanta Jain** and **Shri. M.L. Jain** whose moral support and blessings continuously encouraged and sustained me throughout the period of research work. It is their faith upon me that make me to see this dream and their continuous support in various form resulted in this dream come true.

I owe my thanks to my Brother **Samved Jain**, for his moral support and unflinching courage during the last stage of my thesis, when it was most needed. He inspired me to finish this work efficiently. Special thanks to my sister **Mrs. Anjali Jain** and Jiju **Mr. Sapan Agrawal** for their continuous support throughout my research work and to their little sons **Master Utkarsh** and **Master Naman** for their love and affection during entire tenure of this research work and for providing me all the happiness and pleasure during my research.

A respect and very special appreciation goes to my Bua Mrs. Kavita Agrawal and Fufaji **Mr. Ashok Agrawal** for encouraging and supporting me throughout my Research work.

I would also like to thank my dear friends and batch mates Priyanka Pareek, Ira Sharma, Ankita Shah, Soniya Chaudhary, Surabhi Chaturvedi, Sanchita, Preeti Agrawal and Sandiya Kothari for their continuous help, support and valuable suggestions throughout the research work.

Last but not the least I would like to acknowledge Office Staff of Department of Botany, University of Rajasthan for their cooperation.

Finally, I want to acknowledge to all those who could not find separate name but helped me directly or indirectly.

**Date :**

**(Chitra Jain)**

**Place**