WORD OF GRATITUDE

Sweet memories are cherished forever and so is my joy, as I express my heartly gratitude to my esteemed teacher, eminent counsellor, elite guide Dr. Purnima Shrivastava, Professor & Head, Dept. of Biotechnology, Bhagwant University, Ajmer, for her able guidance affectionate gesture, constructive suggestion, continuous encouragement, frank criticism, moral support, ever willing attitude to help at every stage of this venture.

Her insatiable appetite for excellence, masterly advice, majestic guidance and her efforts to infuse spark in me throughout the venture, was key to success to this work. Above all, the interest and attention she so keenly lavished upon work has been a great pleasure and privilege to me.

These words can hardly express the deep sense of gratitude for her inspiration without which it would have been a herculean task for me to put forth this study in present form.

I consider it a privilege to have worked under her able guidance.

(Rasik Bihari Vyas)
Dedicated to the Almighty God

AA y{ehukjk;.kkH;ke~ ue%AA
ACKNOWLEDGEMENT

No man knows fully what has shaped his own thinking. It is difficult for me to trace in detail the trail of conception set forth this report, and to track down the reasons for their progressive modifications as I have worked with them.

Therefore, I thank Almighty God for all the good things bestowed upon me that gave me strength and courage to undertake and accomplish this task.

At the helm, I would remember my Grandfather late Pandit Anant Shyam Vyas (BAUJI) for his endless blessings.

Now let me thank all my motivators who have came across this curvaceous path like twinkling stars in the sky and sparkled this trial.

I am grateful to my Guide, Dr. Purnima Shrivastava, Professor & Head, Dept. of Biotechnology, Bhagwant University Ajmer, who helped me in completing my project. She has always been a constant source of knowledge and inspiration to me.

I express my sincere and heartful gratitude to Dr Geeta Parihar, Head of Department of Microbiology, JLN medical College, Ajmer for her guidance, valuable advice and encouragement. She has been an excellent teacher and devoted microbiologist.

I am grateful to Principal and Controller, JLN Medical College, Ajmer (Rajasthan) for granting permission to conduct this study and use the laboratory of Department of Microbiology.

I also thank Dr Narendra Bhojak, Green Chemistry Research Center, P.G. Department of Chemistry, Govt. Dungar College, Bikaner (Rajasthan) for his able guidance and allowing me access to his department for extraction of plant material.

How can I forget Late Dr. Manoj Shrama, Former Head of Department, Botany & Plant Biotechnology, DAV College, Ajmer & Late Dr. Blossom Priya Peters, former Associate Professor, Department of Microbiology, JLN Medical
College, Ajmer who nurtured, loved and faithfully supported me and showed me the path throughout this entire process. Their unending love, support and together can make anything possible, which I will miss forever in future.

I am highly indebted to the Dr. Vijaylatha Rastogi, Dr Priyanka Soni, Dr Jyotsna Chandwani, Dr. Ranweer, Dr Rohitash and Dr Shailendra, Department of Microbiology, JLN Medical College, Ajmer, for their ever willing attitude to help me graciously whenever I needed their support.

I acknowledge the help of all the technical staff of the Department of Microbiology, JLN Medical College, Ajmer specially Mrs. Bhoj Kumari Ji Tak, Mukesh Puniya Ji , Roopesh Ji & Sh. Jitendra Ji, and special thanks to Mr. Harish Kumar Changal (Technical Officer) Department of Microbiology, S P Medical College, Bikaner, without their sincere and, selfless help, completion of this task would have been much tedious.

I also acknowledge Dr. Tarun Patni, Dr P R Agrawal & Mrs. Chavi Vijay of Kamla Nehru State TB Demonstration centre, Ajmer for their moral support.

I would like to thank staff of Bhagwant University namely Dr. Sandeep Kumar Pandey and Mr Rajesh Singh for the invaluable advice, practical suggestions and hands on help provided by them at every juncture of my research.

I wish to express my heartfelt thanks to my dear friend, big brother Lalit Sharma For his moral support, encouragement and boosting my spirit at every step of this study.

I am short of appropriate words to express my appreciation for my dear brother Vinod Bihari Vyas and my sister Uma Vyas, how can I forgot your friendly scolding’s, your caring attitude and above all your loving support and guidance throughout my childhood, my adolescence, till today.

I am indebted for lifetime to my lifeline, my better-half Ranu (Priyanka Vyas) for always being there for me, my two little sweet kids Avani & Avadh Bihari for their innocent questions & refreshing smiles and not to forget lovely niece Akshaya who is a role model for everyone of us in the family, whose lovely smiles and gesture will never let you feel down.
It is my bounden duty to uphold my dear parents Sh. Mukut Bihari Vyas & Smt. Shobha Vyas, whose silent prayers kept me going on my project when I was face to face with sky scraper high hurdles and gigantic problems. Their blessing, affection and support played a pivotal role on accomplishing this uphill task. I am overwhelmed with emotions and fall short of words to express my deepest gratitude from the bottom of my heart. Thank you Maa, Thank you Pitaji.

Thank You All

(Rasik Bihari Vyas)