ACKNOWLEDGEMENT

I am thankful to Prof. Upendra Kishore Sinha, University Professor of Botany and Ex-Principal, Patna Science College, Patna University, Patna for guiding me to work on "In-vitro Mass Propagation of Withania somnifera (L.) Dunal Through Different Explants and Analysis of Alkaloids and Steroids Produced" for my Ph.D. Degree. Without his help, it was not possible for me to work in right direction.

I render my sincere gratitude to Professor S. N. Sharma, Ex-Head, Department of Botany, Patna University, Patna for timely help during Ph.D. course work and registration process. I am also thankful to Professor Surendra Singh, Head, Department of Botany, Patna University, for providing me laboratory facility.

I take this opportunity to express my deep sense of gratitude and reverence to Dr. Birendra Prasad, Co-ordinator "Biotechnology” Patna University, Patna for various helps he extended.

I am grateful to my honourable teachers Dr. R. K. Sinha, Dr. M.P.Trivedi, Dr. R.K. Mandal, Dr. C. Sarfuddin, Dr. Shardendu, Dr. M. Singh, Dr. Abha Singh, Dr. Reena Mohanka, Dr. C. Prabha, Dr. Naheed Ahmad, Dr. V. Pandit, Dr. V. K. Sinha, Dr. R. S. P. Sinha, Dr. Nirupa Kumari and Dr. Nidhi Rastogi for their encouragement and help.

I am also thankful to Late Shri. Radhe Raut, Ex-librarian, Department of Botany, Patna University, Patna for providing me library facilities.
Thanks are also given to Dr. Mahendra Seervi and Dr. Jitendra Kumar, Assistant Professor, DBT-IPLS, Patna University, Patna for their committed supervision, commendable guidance and constant encouragement which only could take me out of this uphill task.

I am highly thankful to the my lab mate Mr. Vijay Kumar Jha, Mrs. Smita Kumari, Mrs. Archana, Ms. Nikhat Parween, Ms. Amber, Mr. Kumar Sayrav, Mr. Sanjeev Kumar Ambasta, Mr. Permanand Verma, Mr. Deepak Kumar Jha, and Mr. Arif Anwar for their affections and encouragement in completing this work.

I am also thankful to my husband Mr. Surya Prakash Dubey without whom this work would not have been completed because, he helped in editing whenever needed. My lovely affection to Master Raghav, my son, who kept me free by associating himself with his father and maternal grandmother.

Lastly, I must acknowledge words of appreciation for my father Dr. M. P. Trivedi, my mother Smt. Pratibha Trivedi, my father-in-law Shri Krishna Mohan Dubey and mother-in-law Smt. Vibha Pandey for their cent-percent care during the course of my work.

It is impossible for me to conclude this act of acknowledgement without expressing my reverence and gratitude to Almighty God, who strengthened me to complete the work in time.

(Indrani Trivedi)