

## ACKNOWLEDGEMENTS

I wish to express my deep regards and sincere gratitude to my respected teachers and supervisors namely Prof. Ram Kumar Bhakat, Associate Professor of Botany Vidyasagar University and Dr. Alope Bhattacharjee, Professor of Botany, The University of Burdwan for their valuable guidance and supervision, constant encouragement and co-operation throughout the entire period of investigation and also during preparation of the thesis.

My sincere thanks also go to Professor Ranjan Chakrabarti, Hon'ble Vice Chancellor, Vidyasagar University and to Dr. Prakash Karmakar, Head of the Department of Botany, V.U. for their kind permission to conduct my research and providing necessary laboratory facilities.

.Sincere thanks are due to Professor Ashish Kumar Nandi and Professor Debdulal Banerjee and Professor Amal Kumar Mandal Department of Botany, Vidyasagar University for their constant encouragement and support towards carrying out the research work.

I am grateful to all the faculty members, office staff members of Department of Botany, Vidyasagar University, for rendering me their necessary help and kind cooperation.

I would like to acknowledge the valuable help rendered by Dr. Uttam Kumar Kanp, HOD, Department of Botany, Narajole College, Midnapore, West Bengal and

to Dr. Ashutosh Mukherjee, HOD, Department of Botany ,Vivekananda College Thakurpukur, Kolkata.

I am very much grateful to Professor Soumendra Nath Talapatra, Department of Environmental Science, Formerly guest faculty University of Calcutta for his valuable help for teaching me to use *ChemID Plus* for analogous compound prediction of allelochemicals- part of my research work.

Finally, I would like to express my immense depth of gratitude to my late father Dr. Akramul Haque, Former HOD Botany, Charuchandra College ,Kolkata, mother Mrs. Mahmuda Haque and my younger brother Arijul Haque (Research Scholar ,Computer Science Department, IIT Kharagpur) my sister Morium Begum (Research Scholar ,Zoology Department, University of Calcutta) who had always been a source of inspiration to me. I am indebted to my wife and all my relatives and well wishers for their constant encouragements during the period of my research work. Also my little daughter Ayesha is a very lucky sign and great source of positive energy in my life.

Date:16.12.2019

  
(Mahmudul Haque)