

# Preface

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From my childhood my father late Dr. Ramesh Mani Tripathi who was Reader (Botany) in M.M.M. (P.G.) College, Bhatpar Rani, District-Deoria always motivated me to do innovatory work in the field of science. The inspiration of my father always enlightened and inspired me for this research work. Being a social worker and M. Sc. (Botany) from Gorakhpur, University Gorakhpur, an academician, he always inspired me to do something special and beneficial for the society. I am sure and confident that his blessings are always with me and will help me to achieve the ultimate.

Tarai region of Uttar Pradesh enjoys unique climatic conditions and growth, have abundant ditches, pools, rivulets and rivers. Thus provide several lentic and lotic water bodies and opportunity for growth of algal flora. Order Chaetophorales and Cladophorales of Chlorophyceae have great evolutionary significance as land habit of plants begins from here.

The topic of my study was selected to see various forms of these orders, found in five districts of Tarai region *viz.* Deoria, Gorakhpur, Gonda, Balrampur and Bahraich.

This would have been the reason of lush green vegetation of land flora of this area. During the course of study, surveys of different water reservoirs of these districts were conducted and the available data has been arranged. In the present work, Morphological and Taxonomical studies on Chaetophorales and Cladophorales have been studied for three consecutive years (2005-2008).

The thesis is divided into 7 chapters. Chapter 1 : deals with Introduction with work in present scenario, reason for opting such type of work. Chapter 2: deals with Review of Literature. Chapter 3: describes Materials and Methods. Chapter 4: describes the Morphotaxonomic Description, with the systematic feature of different species. Chapter 5: deals with results and discussion. Chapter 6: deals with Summary and Chapter 7: deals with Bibliography.