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Hemen Chandra Majumdar



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Distribution of *Tacca chantrieri* (Taccaceae) in Assam, India

Nilotpal Kalita
Kangkan Kumar Das
Selim Mehmud
Himu Roy
Dhrubajyoti Saharish

Abstract

The present study deals with the morpho-taxonomic study of *Tacca chantrieri* André (Taccaceae); its medicinal and horticultural importance and evaluation of its potential spatial distribution. Natural occurrence of *T. chantrieri* is recorded from three districts of Assam viz. Cachar, Kamrup rural and Tinsukia and its potential spatial distribution was evaluated using Maxent model along with GIS to prepare the map in digital environment on the basis of selected environmental parameters which will be helpful in conservation of this species as well as a prediction of its distribution in other places of Assam.

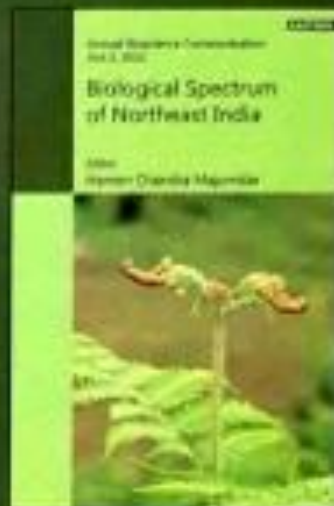
Keywords: *Tacca*, species, distribution, Maxent, Assam.

Introduction

Around 20 species of the genus *Tacca* J.R.Frost & G.Frost are distributed in the tropical region of Asia belongs to the monocot family Taccaceae (Chua *et al.*, 2020). The beautiful ornamental species *Tacca chantrieri* André is commonly known as bat flower and is extensively distributed mainly in the humid tropical regions of Thailand and Indo-Chinese Peninsula (Drenth, 1972). The species is

THE BOOK

This ambitious book takes on fundamental to advanced biological developments of the present times with specific emphasis on Northeast India and features chapters on plant sciences, animal sciences, biochemistry, biotechnology, environmental sciences, microbiology and agricultural sciences. This book comprises of total 21 chapters by eminent authors. Contributions on part of distinguished scholars from leading institutions of Northeast India like Fakaruddin Ali Ahmed Medical College & Hospital, Barpeta, Gauhati University, Guwahati; Cotton University, Guwahati; Bodoland University, Kokrajhar, North-Eastern Hill University, Shillong; Royal Global University, Guwahati, Tripura University, Tripura Assam University, Silchar and contributions from these institutes have added great value to the book. The book will serve as an excellent reference material for the upcoming research scholars of biological science as well as allied subjects.



THE EDITOR

Dr. Hemen Chandra Majumdar, M. Sc., B. Ed., Ph. D. has 12 years of teaching experience in the Department of Botany, B. Borooah College, Guwahati, Assam and more than 17 years of research experience together under Gauhati University and B. Borooah College. He has published more than 25 research papers and reviewed articles in national and international journals of repute, in the fields of algal biochemistry, algal culture, pteridology, palynology, soil microbiology, cell biology and ethnomedicine. He has undergone training in biofertilizer production at Indian Agriculture Research Institute (IARI), New Delhi, molecular biology and plant tissue culture at The Energy Research Institute (TERI), New Delhi and Orientation Programme on Ayurveda at Interactive Research School for Health Affairs (IRSHA), Pune. His major research interest includes plant biochemistry, food microbiology, ethnomedicine and traditional practices of different tribes of North East India. He has published one book and edited two books and also associated with several national as well as international professional societies.

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