ಭಾರತದಲ್ಲಿ ಸೆಕ್ಯುಲರ್ವಾದ ಮತ್ತು ಅದರ ವಿಮರ್ಶೆ

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#### ಭಾರತದಲ್ಲಿ ಸೆಕ್ಯುಲರ್ವಾದ ಮತ್ತು ಅದರ ವಿಮರ್ಶೆ

ಕುವೆಂಪು ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮತ್ತು ದಾವಣಗೆರೆ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಸ್ನಾತಕೋತ್ವರ (ಎಂ.ಎ.) ರಾಜ್ಯಶಾಸ್ತ್ರ ಪಠ್ಯಕ್ರಮ ಹಾಗೂ ಕರ್ನಾಟಕ ರಾಜ್ಯದ ಎಲ್ಲ ವಿಶ್ವವಿದ್ಯಾಲಯಗಳ ಸ್ನಾತಕ (ಬಿ.ಎ.) ಪದವಿಯ ಪ್ರಥಮ ಸೆಮಿಸ್ಟರಿನ ರಾಜ್ಯಶಾಸ್ತ್ರ ಪಠ್ಯಕ್ರಮವನ್ನು ಕೇಂದ್ರವಾಗಿಟ್ಟುಕೊಂಡು ಈ ಕೃತಿಯನ್ನು ರಚಿಸಲಾಗಿದೆ.

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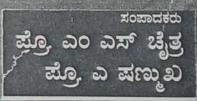
**ವಸಂತ ಪ್ರಕಾಶನ** ನಂ. 360, 10ನೇ 'ಬಿ' ಮುಖ್ಯರಸ್ತೆ. 3ನೇ ಬ್ಲಾಕ್ ಜಯನಗರ, ಬೆಂಗಳೂರು – 560 011



# ಸಮಾನ ನಾಗಲೀಕ ಸಂಹಿತೆ ನೆನ್ನೆ–ಮೊನ್ನೆ

ಸಮಸ್ಥಿತ

ಇಂದು–ನಾಳೆ



ಸಮಾನ ನಾಗರೀಕ ಸಂಹಿತೆ ನಿನ್ನೆ-ಮೊನ್ನೆ ಇಂದು-ನಾಳೆ ಸಂಪಾದಕರು ಪ್ರೊ. ಎಂ ಎಸ್ ಚೈತ್ರ ಪ್ರೊ. ಎ ಷಣ್ಮುಖ ಸಮನ್ವಿತ ಬೆಂಗಳೂರು 9844192952

# **BASICS OF PLANT BIOTECHNOLOGY**



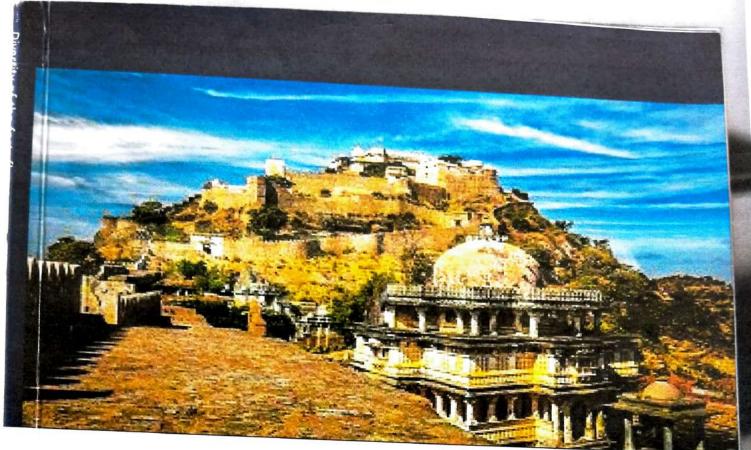




#### Authors

Dr. HC Shrishail Dr. Ramesh S. Masarbo Dr. P. Prashant Kumar

2022



Shrishail Ch Shivakumar singh P

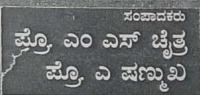
# A biodiversity study on fort flora of Hyderabad Karnataka, India

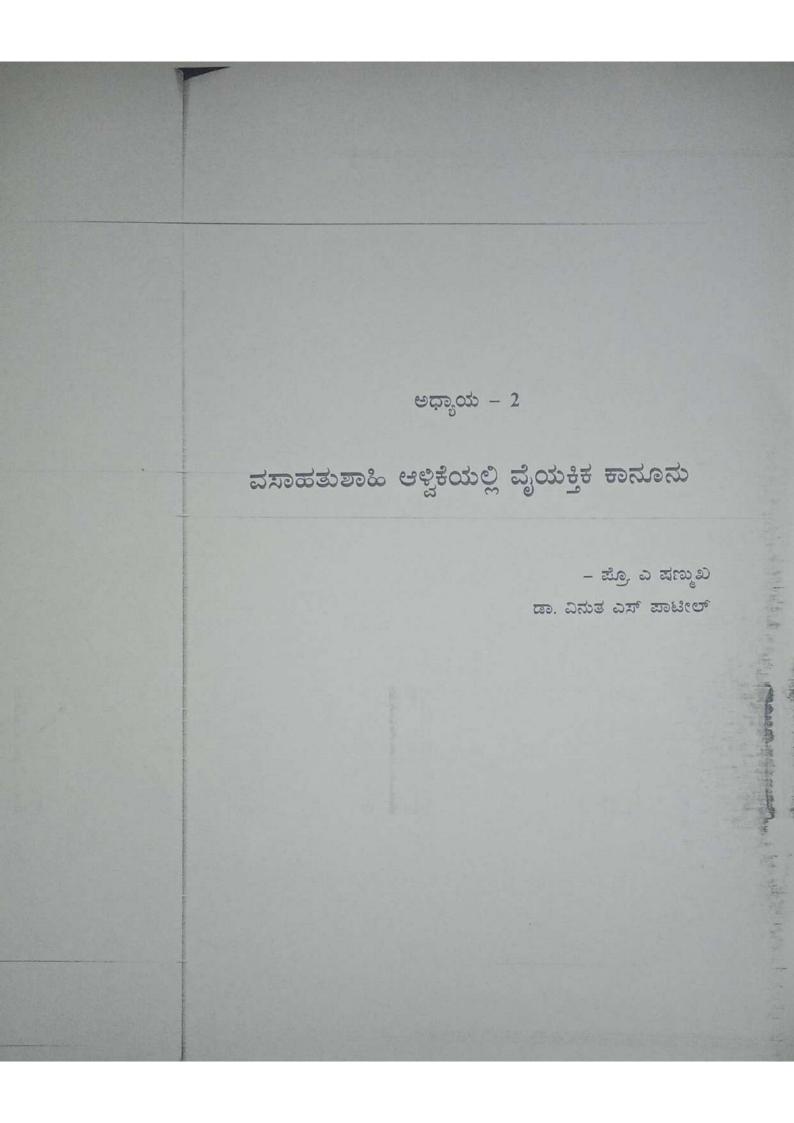
Documentation of plant diversity from the forts of Hyderabad Karnataka region, Karnataka state, India



# ಸಮಾನ ನಾಗಲೀಕ ಸಂಹಿತೆ ನೆನ್ನೆ-ಮೊನ್ನೆ ಇಂದು-ನಾಳೆ

रतके के जिन्ही से जिल्ही से जिन्ही से जिल्ही स





Review asticle

# Phenomenon in Environmental and Nano Science



Kavita Sharma Ravi Sharma





# Chrysanthemum cinerariaefolium (Pyrthrum) / Tanacetum cinerariifolium

P. Shivakumar Singh, GD. Yogashree and HC. Shrishail

#### 1. Introduction

-

Chrysanthemum is a cosmopolitan genus, comprising about 300 species of herbs and under shrubs, among which a few yield the commercial insecticide known as Pyrethrum. Several species of Chrysanthemum are ornamental and grown in gardens for their large, showy, multicoloured flowers (Anon, 1992). Pyrethrum (Chrysanthemum cinerariaefolium) has been under cultivation around the world for nearly 150 years, with Kenya accounting for about 83% of the present world production (Bhat *et al.*, 1985). In India, it is cultivated on a large scale only in Kashmir, though successful trials of cultivation have been reported at Kullu, Palampur, May-urbhanj, Kumaun, Assam, Karnataka, Kerala and Kodai-kanal1. Its flowers yield an important insecticide, i.e. the pyrethrins. The pyrethrin content, being a quantitative character, always poses a problem before the breeders while selecting desired genotypes having high pyrethrin content (Pandita *et al.*, 1989).



# Tylophora indica (Burm.F) Merill.

P. Shivakumar Singh, GD. Yogashree and HC. Shrishail

#### 1. Introduction

Chapter

Tylophora is a plant that grows in tropical parts of Asia, including India, Sri Lanka, Thailand, and Malaysia. While it did not originate there, it now also grows in Africa. In India it is mainly found in Assam, West Bengal, Orissa and Peninsular India. The name Tylophora comes from "tylos" meaning knot and "phoros" meaning bearing. *Tylophora indica* (Burm.F) Merill, commonly known as Indian antmool belongs to family Asclepiadaceae. *T. asthamatica* Wight &Arn. is the Synonym. In English: Emetic Swallow Wort, Indian or Country Ipecacuanha; In Ayurvedic: Antamuula, Muulini, Arkaparni; Siddha/Tamil: Nay Palai, Nangilaippiratti

The plant is perennial, small, slander, a twining or climbing herb tylophora is traditionally used as folk remedy in certain regions of India for the treatment of bronchial asthma, inflammation bronchitis, allergy, and dermatitis. Tylophora also seems to be a good remedy in traditional medicine as anti-psoriasis. **Cognitive Science and Technology** 

Amit Kumar Stefan Mozar Jan Haase *Editors* 

# Advances in Cognitive Science and Communications

Selected Articles from the 5th International Conference on Communications and Cyber-Physical Engineering (ICCCE 2022), Hyderabad, India

Springer

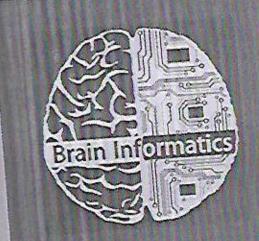
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Mufti Mahmud • Jing He • Stefano Vassanelli • André van Zundert • Ning Zhong (Eds.)

# **Brain Informatics**

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15th International Conference, BI 2022 Padua, Italy, July 15–17, 2022 Proceedings





COROX 24(140)

, ಸಾಮಾಜಕ ಸಮಾನಕ, ಮತ್ತು ಹುಹಿಣ್ಣ ಸುಬಿಕಾರಣಕ್ಕಾಗಿ ಕೇವೆ ಸಭಿಪತ್ರಿಯಾ ಶಿಕ್ಷಣ ತೆಲ್ಲ ಉತ್ತಮ ಪಾಗ್ಗಿ ಬಂದಣಾದ, ಅಂಕಣಕಾದ ಬಿದ್ದಾರ್ಥಿಗಳ ಅಣ್ಣು ಮೆಚ್ಚನ ಗುದಿಗಳಿಂದ ಗುದತಿಗಿ ಕೊಂಡಿದವೆ ಹಾಡಿಗಣ್ಯನ ಕೆ ಆತರು ಕಾಡೆಂದಾ ವಿಶ್ವುದ್ಧಾನಿಆಯದ ಸ್ನಾನಕೋತ್ರರ ಶಿಕ್ಷಣವಾಗ್ಗೆ ಅಧ್ಯಮನ ಮತ್ತು ಸಂದೆತಿಗಳನಾ ಲ್ಲಿ ಪ್ರಾಧ್ಯಪತಿಗಾಗಿ ಮತ್ತು ಹಾ. ದ. ಅಂಕ ಅಂಡೇವು ಅಧ್ಯಯಾ ಕೇಂದ್ರದ ನಿರ್ದೇಶಕರಾಗಿ ಪಿಕ್ಷಿಪಿದ್ಗಾ

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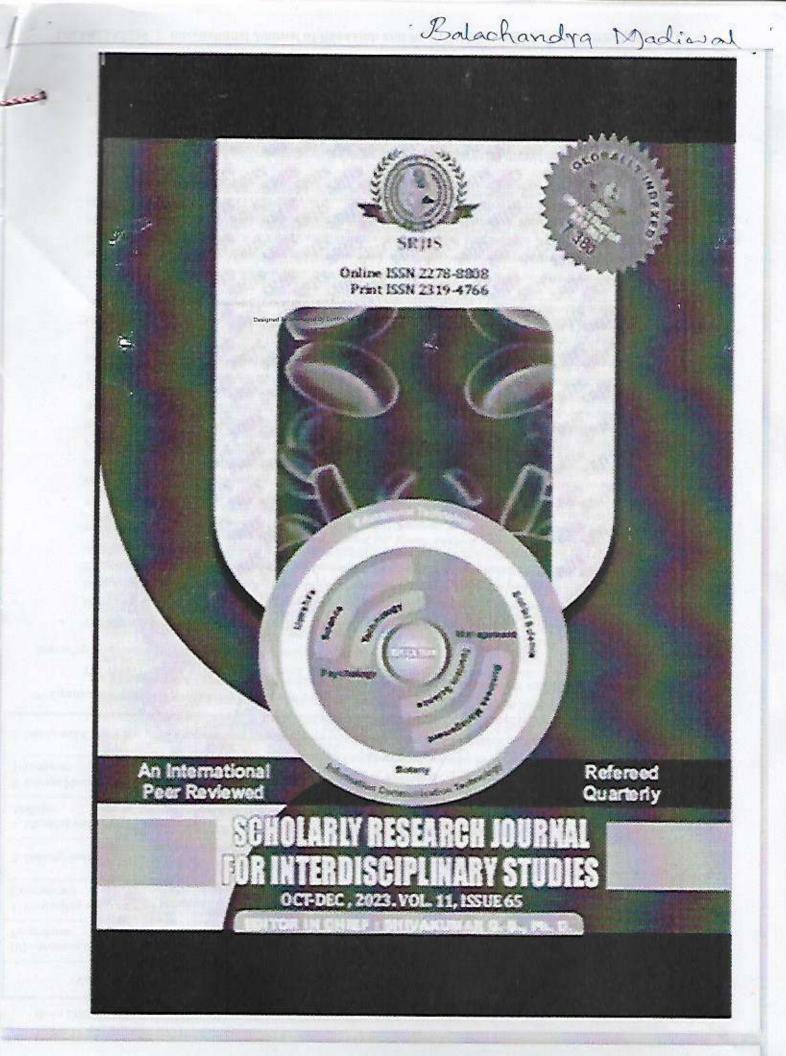
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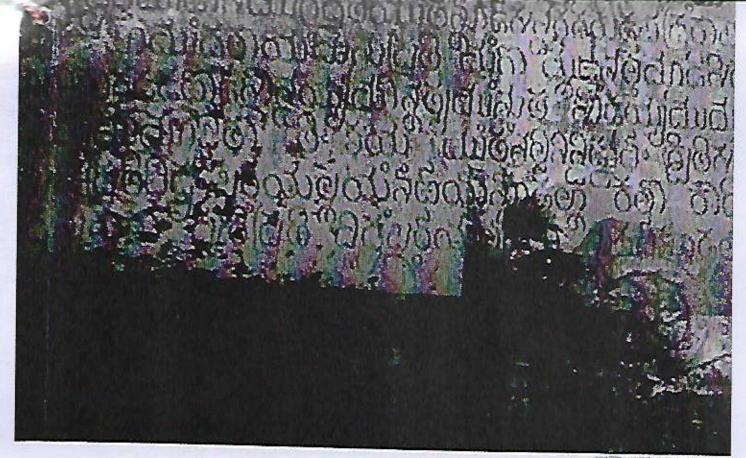
Materials Horizons: From Nature to Nanomaterials

Kaustubha Mohanty S. Saran B. E. Kumara Swamy S. C. Sharma *Editors* 

# Graphene and its Derivatives (Volume 2)

Water/Wastewater Treatment and Other Environmental Applications







ಕ್ಷಧಾನ ಸಂಪಾದಕರು ಪ್ರೊ.ಕೆ.ಕೇಶವಶರ್ಮ

<sup>ಸಂಪಾದಕರು</sup> ಪ್ರೊ.ಜಿ.ಪ್ರಶಾಂತ ನಾಯಕ ಪ್ರೊ. ಶಿವಾನಂದ ಕೆಳಗಿನಮನಿ ಡಾ. ನೆಲ್ಲಕಟ್ಟೆ .ಎಸ್.ಸಿದ್ದೇಶ್





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## Thermal Conductivity in the Boundary Layer of Non-Newtonian Fluid with Particle Suspension

Rudraswamy N.G., Ganeshkumar K., Krishnamurthy M.R., Gireesha B.J. and Venkatesh P.

Additional information is available at the end of the chapter

http://dx.doi.org/10.5772/intechopen.76345

#### Abstract

The present chapter is focused on studies concerned with three dimensional flow and heat transfer analysis of Carreau fluid with nanoparticle suspension. The heat transfer analysis in the boundary was carried out with the fluid flow over a stretching surface under the influence of nonlinear thermal radiation, mixed convection and convective boundary condition. Suitable similarity transformations are employed to reduce the governing partial differential equations into coupled nonlinear ordinary differential equations. The equations in non-linear torm are then solved numerically using Runge-Kutta-Fehlberg fourth fifth order method with the help of symbolic algebraic software MAPLE. The results so extracted are well tabulated and adequate discussions on the parameters affecting flow and heat transfer analysis were carried out with the help of plotted graphs.

Keywords: Carreau nano fluid, nonlinear thermal radiation, mixed convection, stretching sheet, convective boundary condition, numerical method

#### 1. Introduction

Thermal radiation, the fundamental mechanism of heat transfer is an indispensable activity in rocket propulsion, plume dynamics, solar collector performance, materials processing, combustion systems, fire propagation and other industrial and technological processes at high temperatures. With the developments in computational dynamics, increasing attention has been diverted towards thermal convection flows with the significant radiative flux. Rayleigh initiated the theory of thermal convection, by deriving critical temperature gradient (Critical Rayleigh number). Importance of such radiations is intensified with absolute temperatures at

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© 2018 The Authority Ocenter InternOper. This chapter is distributed under the terms of the Creative Commonly Attribution Science Unity Protects economous org/Sciences/by/3.0) which permits unrestricted use setup our analysis due to a set medium provided the original work is properly sited (e)

#### Nonlinear Radiative Heat Transfer of Cu-Water Nanoparticles over an Unsteady Rotating Flow under the Influence of Particle Shape

K. Ganesh Kumar, B.J. Gireesha and S. Manjunatha

A liditional information is available at the end of the chapter

http://dx.doi.org/10.5772/intechopen.74807

#### Abstract

A 3D study on Cu water rotating nanofluid over a permeable surface in the presence of nonlinear radiation is presented. Particle shape and thermophysical properties are considered in this study. The governing equations in partial forms are reduced to a system of nonlinear ordinary differential equations using suitable similarity transformations. An effective Runge-Kutta-Fehlberg fourth-fifth order method along with shooting lechnique is applied to attain the solution. The effects of flow parameters on the flow field and heat transfer characteristics were obtained and are tabulated. Useful discussions were carried out with the help of plotted graphs and tables. It is found that the rate of heat transfer is more enhanced in column-shaped nanoparticles when compared to tetrahedron- and sphere-shaped nanoparticles. Higher values of rotating parameter enhance the velocity profile and corresponding boundary layer thickness. It has quite the opposite behavior in angular velocity profile. Further, unsteady parameter increases the velocity profile and corresponding boundary layer thickness.

Keywords: particle shape effect, nonlinear radiation, Cu-water nanoparticles, unsteady rotating flow

#### 1. Introduction

The interaction of thermal radiation has increased greatly during the last decade due to its importance in many practical applications. We know that the radiation effect is important under many isothermal and nonisothermal situations. If the entire system involving the polymer extrusion process is placed in a thermally controlled environment, then radiation

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.5.	Prof. U. Venkatesha	"Lambani Janangada Samskruthika Badalavane: ondu Adhyana"	2023	Shikshana Swadha	ISSN:2249-2429
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#### TOWARDS A BETTER INDIA: SOCIAL RESEARCH IN ACTION

Editors Dr. RESHMA Dr. RAJENDRA. K Dr. MOHAN. S.K Dr. SHEELA. K.S

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# Wildlife Management Human – wildlife conflicts case studies

# Dr. Vijaya Kumara

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#### STUDY ON WETLANDS OF LAKKAVALI RANGE OF BHADRA WILDLIFE SANCTUARY, MID WESTERN GHAT REGION, KARNATAKA

#### H.T. RAGHAVENDRA GUNDA AND VIDAYA KUMARA

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LAKKVALLI RANGE, BHADRA WILDLIFE SANCTUARY, KARNATAKA

Author (s): Raghavendra Gowda H.T. and Vijaya Kumara

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# Capter 16

# Hydro-chemistry and Phytoplankton in Wetlands of Muthodi Range of Bhadra Wildlife Sanctury, mid Western Ghat Region, India

Vijaya Kumara\* and A.F. Pramod

Department of Wildlife and Management, School of Biosciences, Kuvempu University, Jnana Sahyadri, Shankaraghatta 577 451

#### ABSTRACT

Systematic study has been carried out to evaluate physicochemical characteristics of Water and Phytoplankton in the selected wetlands in Muthodi Range of the Bhadra Wildlife sanctuary from May 2009 to April 2010. Three major wetlands which come across the temperate zone of the sanctuary *viz.*, Halgae Kere, Nagara Bavi and Thalabidrae kere have been selected for the study. Eighteen physico-chemical water quality parameters have been analyzed for pre, post and monsoon seasons. The obtained data analyzed with reference to BIS and WHO standards. The physico-chemical characters of water are well with in the permissible limit and the

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#### DIVERSITY AND DISTRIBUTION OF AVIFAUNA IN BHADRA WILD LIFE SANCTUARY, INDIA

M.N. HARISHA AND B.B. HOSETTI

#### INTRODUCTION

Birds are among the best monitors of environmental changes and have been used to evaluate the environment throughout the history as "biomonitors and; the changes in their population, behavior patterns and reproductive ability have most often been used to examine the long term affects of habitat fragmentation. Hence, they are the good indicators of ecological status of any given ecosystem (Bilgrami, 1995). Forests attract a large number of avifauna because of the habitat suitability for most of them. This especially include the birds that are associated with the vegetation, and for most, the existence of trees is vital to their life cycle. Birds show different levels of interest to various stands depending on the age of the stands. The bird species composition is highly related to the forest vegetation structure. The diversity of birds, and in particular the native species, is positively correlated with increasing structural complexity of the vegetation. Also a seasonal change in species diversity of birds occurs in forests due to their foraging behaviour (Robertson and Hackwell, 1995). The present study was undertaken to assess the pattern of distribution and diversity of avifauna in the Westernghat, India.

#### STUDY AREA

Lakkavalli range forest encompasses an area of 229.65 sq km and is one of the largest range forest in the limits of Bhadra Wildlife Sanctuary spanning between 13°22' to 1347' N latitude; 75°29' to 75°45' E longitude (Map 1). Lakkavalli range forest is located 30 km south of Shimoga city with a varied type of vegetation encompassing dry mixed deciduous forest, moist mixed deciduous forest and sparsely spread semi-evergreen forest. Northern part of the forest range adjoins the Bhadra Reservoir. The terrain in the reserve is undulating with valleys surrounded by steep hills. Temperature within the sanctuary varies from 9° to 35° C and mean annual rainfall varies from 1200 to 2600 mm dominated by southwest monsoon during July to September. The study area has been divided into 6 line transects each measures up to 500 m in length and their width depending upon the vegetation pattern (20 m in plantation, 30 m in mixed forest patches).

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B.B. Hosetti • S. Ramkrishna

Chapter 2

### Floral Diversity of Daroji Sloth Bear Sanctuary, Hospet, Bellary District, Karnataka, India

-M.N. HARISHA<sup>1</sup> AND B.B. HOSETTI<sup>2</sup>

# **Biodiversity** Monitoring and Utilisation

## B.B. Hosetti K.L. Naik

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