

# **Environment Epilogues Disquiets and Panacea**



**Vijaygarh Jyotish Ray College Kolkata**



**Scholars' Book  
Kolkata West Bengal**

<b>A Study on Electrical Response of Mature Node of <i>Alternanthera Sp.</i> under Different Degrees of Strength of Mechanical Perturbation</b>	
Shibsankar Roy, Barnini Bhattacharya, Bijay Bal, Kuntal Ghosh	110
<b>Isolation And Characterization of Chromium (Vi) Tolerant Bacterial Strains From Tannery Effluent of Park Circus Area</b>	
Suvranil Mitra, Soumyajit Guha, Saswati Gayen	120
<b>A Study of Water Monitor Lizard (<i>Varanus Salvator</i>) in Rural Habitat of Southern Part of West Bengal, India</b>	
Arijit Chatterjee, Anindita Majumdar Silarjan Bhattacharyya	129
<b>Competitive Ability of Weed Nut Grass (<i>Cyperus Rotundus</i>) on Rice (<i>Oryza Sativa</i>) Cultivation: an <i>in vitro</i> study</b>	
Indrajit Ghosh, Sayanti Kar, Phalguni Bhattacharyya, Amitava Ghosh	142
<b>A Study on Auditory Status of Urban Adolescent Male Students Exposed to Railway Noise</b>	
Sandipan Chatterjee, Ayan Chatterjee, Surjani Chatterjee, Tanaya Santra, Neepa Banerjee, Shankarashis Mukherjee	159
<b>Peoples Attitude towards Ganga Pollution- A Preliminary Survey</b>	
Sayanti Kar, Indrajit Ghosh, Amitava Ghosh, Pritam Aitch, Gupinath Bhandari	174

# **A Study of Water Monitor Lizard (*Varanus salvator*) in Rural Habitat of Southern Part of West Bengal, India**

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## **Abstract**

Contrary to popular belief, rural ecosystems have been reported to harbor a rich spectrum of wildlife. Water Monitor Lizard (*Varanus salvator*) a Schedule I species (Wildlife (Protection) Act, 1972) are commonly found in villages of West Bengal (especially in Lower-Gangetic Flood Plain and Coastal-estuarine area) but its actual population size and distribution was not properly known. Hence this study was conducted in few selected villages of these regions to estimate its population size and to understand how they co-exist within densely populated human settlements. Exclusive time-space count method was adopted to estimate the density of the animal. Result shows its density ranges from 77.78 to 111.54 individuals/km<sup>2</sup> in different village areas containing healthy amount of their potential habitats and it acts as an effective bio-

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## CONTENTS

<b>Wild Fauna Consumed by the Forest Fringe Village Communities of South Western Parts of West Bengal</b> Anindita Majumdar, Arijit Chatterjee Silanjan Bhattacharyya	9
<b>Water Scarcity and Its Effects on Humans</b> Arvinda Shaw	20
<b>Adverse Impact of Environmental Toxins on Acute Kidney Injury and Chronic Kidney Disease</b> Debosmita Roy	31
<b>Gene transfer methods in Cotton and their Potentialities - a Comparative Analysis</b> Nandini Bandyopadhyay	47
<b>Impact of Climate Change on Cardiac Performance: A Study in Male Paddy Cultivators Engaged in Manual Transplanting Task</b> Ayan Chatterjee, Sandipan Chatterjee, Neepa Banerjee, Shankarashis Mukherjee	63
<b>An Overview of Pollination by Moths in the Context of Forest Ecosystem</b> Pushan Chakraborty, Poulamy Adhikary	83
<b>Adaptive Capacity Development is a Key to Disaster Management: A study at Sagar and Adjacent Islands of Sundarbans, India</b> Rajarshi Mitra	93
<b>Levels of Protein in Few Commonly Consumed Fish- &amp; Vegetable- Foods</b> Rituparna Chatterjee	103

# **Wild Fauna Consumed by The Forest Fringe Village Communities of South Western Parts of West Bengal**

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Department of Environmental Science, Asutosh College

## **Abstract**

Wild fauna resources found in local ecosystems are exploited as a source of protein by ecosystem people all over the world. This two year study documents not only the richness of wild fauna species diversity consumed by the forest fringe families but the amount of biomass collected of those species. Daily surveys were conducted at households selected randomly from the forest - fringe villages of south western parts of West Bengal. 5.3% of faunal biomass of total food biomass for self consumption comes from 56 species of animals hunted including wild mammals, birds, reptiles, frogs, freshwater fishes, mollusks and invertebrates. The results depict that among the forest fringe villagers, the tribal families are more dependent on the wild fauna than their non tribal neighbours. Thus the high

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IN INDIA :  
PERCEPTIONS AND IMPLICATIONS**



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# CONTENTS

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Foreword	Pages 5
<i>Introduction by the Editor</i>	11
<b>Chapter</b>	
1. <b>Ancient Wisdom On Natural Disasters And Its Management As Reflected In Varahamihira's Brihat Samhita And Kautilya's Arthasashtra</b> Dr. Sweta Dutta Budge Budge College, Kolkata	19
2. <b>Disaster: A prelude to creation!</b> Dr. Kakali Ghosal Budge Budge College, Kolkata	31
3. <b>Forest Fires: Natural Disaster Or Colonial Mal-Handling Of Nature</b> Priyanka Guha Roy Kazi Nazrul University	47
4. <b>The Great Famine of Orissa (Na-Aanka Famine), 1866 Under Bengal Presidency</b> Pooja Banerjee Jadavpur University	58
5. <b>Case Study of Utrakhand Flood Disaster-2013</b> Purnendu Sekhar Ray Bhangar Mahavidyalaya	72
6. <b>Environmental Refugees: Making Matter Disastrous for a State</b> Dr. Somdatta Banerjee New Alipore College	80

16. বিশ্বায়ন, বিশ্ব-উষ্ণায়ন-আয়লা'র পটপ্রেক্ষার  
সুন্দরবনের আঞ্চলিক বাংলা কবিতা  
পৌলোমী রায়  
বজবজ কলেজ, কলকাতা 185
17. গড়শ্রীখণ্ড : এক তিমির বিনাশী আখ্যান 190  
ড: অর্পিতা রায় মৌলিক  
বজবজ কলেজ, কলকাতা
18. বাংলা উপন্যাসে প্রকৃতি বিপর্যয়ের প্রভাব 196  
সঞ্চরী আশ্রী  
বজবজ কলেজ, কলকাতা
19. ঔপনিবেশিক ভারতবর্ষের প্রাকৃতিক বিপর্যয় এবং 201  
বাংলা চলচ্চিত্রে তার প্রতিফলন  
চুমকী সরকার  
বজবজ কলেজ, কলকাতা
20. **Cyclones in Colonial Bengal as the** 204  
**Perspective of Environmental History**  
Soma Naskar  
Jadavpur University
21. **Life! Divergence and Convergence of Nature's Law** 207  
Dr. Sushmita Bhowmick,  
Diamond Harbour Women's University
22. **Natural Disaster of the West Bengal** 214  
**and its Management: An Overview**  
Moumit Roy Goswami  
Netaji Nagar Women's College for Women

# Natural Disaster of West Bengal and its Management : An Overview

Moumit Roy Goswami

## *Abstract*

West Bengal is a State in eastern Part of India between N 21°30' & 27° 30' and E 85°30' & 89°45'. It is susceptible to natural calamities like flood, cyclone, hail storm, thunder squall, drought, landslide, erosion and occasionally to earthquakes because of its geo-morphological, climatic and seismic conditions. Floods and Cyclonic storms are most common among the natural disasters and frequently occur almost every year in different parts of the State leading to huge loss of life and property. Approximately 55.8% of the region in West Bengal susceptible to floods and it has faced numerous large floods in the past 20 years. West Bengal has been one of the most cyclone-affected territories of the country. The state has faced many major cyclones like Severe Cyclonic Storm BOB 04 in 2002 and Aila in 2009 in the recent past which caused massive destruction. Notably West Bengal has two Cyclone seasons i.e pre-monsoon and post-monsoon cyclone during April-May and Nov-Dec, respectively. Pre-monsoon cyclone, which causes wide spread hailstorm and it is traditionally called in the state as *Kalbaishaki*. With respect to Cyclones, the districts of West Medinipur, East Medinipur, South 24 Parganas, North 24 Parganas, Howrah, Hooghly, part of Nadia, Burdwan and Bankura falls under very high damage risk zone ( $V=50\text{m/s}$ ); whereas a major part of Nadia, Burdwan, Bankura, Murshidabad, Malda, Uttar and Dakshin Dinajpur, Jalpaiguri, Cooch Behar, Darjeeling, part of Purulia faces high damage risk zone ( $V=47\text{m/s}$ ) and Major portion of Purulia falls under moderate damage risk zone ( $V=29\text{m/s}$ ) with respect to cyclone. The landslide hazard in West Bengal has been observed mostly in the hilly terrains of Darjeeling District. However, incidents of landslide have also been reported to have occurred on the banks of Hooghly River. The main reason behind landslides in hilly terrains is urbanization,

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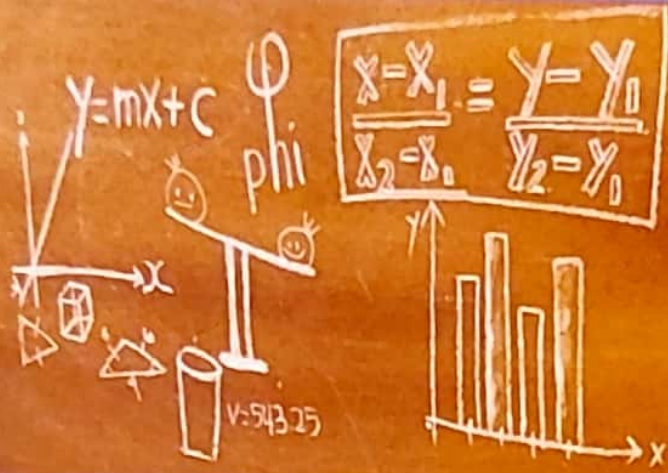
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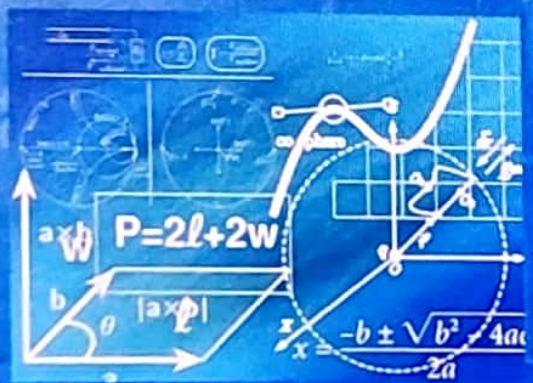


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# Phytoremediation of Methotrexate Induced Genotoxicity in *Heteropneustes Fossilis* Using Extracts of *Centella Asiatica*

Manjitha Deb<sup>1</sup>, Urbee Banerjee<sup>1</sup>, Debosmita Roy<sup>2</sup> and Pinakiranjan Chakrabarti<sup>1</sup>

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Netaji Nagar College for Women]

## Abstract

The extracts of *Centella asiatica* (commonly known as Mandukaparni), are widely used in ethnobotanics. This study has first taken the initiative of assessing their chemo-protective properties against Methotrexate (MTX) insult. *Heteropneustes fossilis* was chosen as the model for this experiment and they were divided into three groups. Group 1 was kept as the control; Group 2 was given sub-lethal concentrations of MTX; Group 3 was administered *Centella asiatica* extract simultaneously with MTX. The extent of genotoxicity was monitored by micronucleus assay. This setup enabled us to clarify whether the extract had any remedial effect

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*Edited by*

**Professor (Dr.) Kakali Dhara Mandal**



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Matir Moina : A Film by Tareque Masud <i>Nowsad Shaikh</i>	209
Abol Tabol: An Interpretation beyond 'Nonsense' <i>Debolina Guha Thakurta</i> <i>Mayukh Lahiri</i>	217
<i>Nagara Nam</i> : Its Tradition and Heritage <i>Dr. Nilakshi Devi</i>	224
Theatre in Universities: An Analysis of Theatre Productions Performed post 2014 <i>Saheb Kaur</i>	236
The Contours of Urban Nightmares in the Noir City Spaces of Cinema <i>Sreedevi P</i>	252
Mandore in context of Indian Temples to the Dead <i>Chandramolle Modgil</i>	257
Celebration and Denunciation: A Re-reading of Rowling's Women <i>Priya Maji</i>	269
Biopolitical Dystopia: A Posthumanist Reading of Deepa Mehta's Netflix Original Web Series <i>Leila</i> <i>Nabanita Paul</i>	281
Impact of Uday Shankar on Rabindra Nritya <i>Sanchary Adhikary</i>	288

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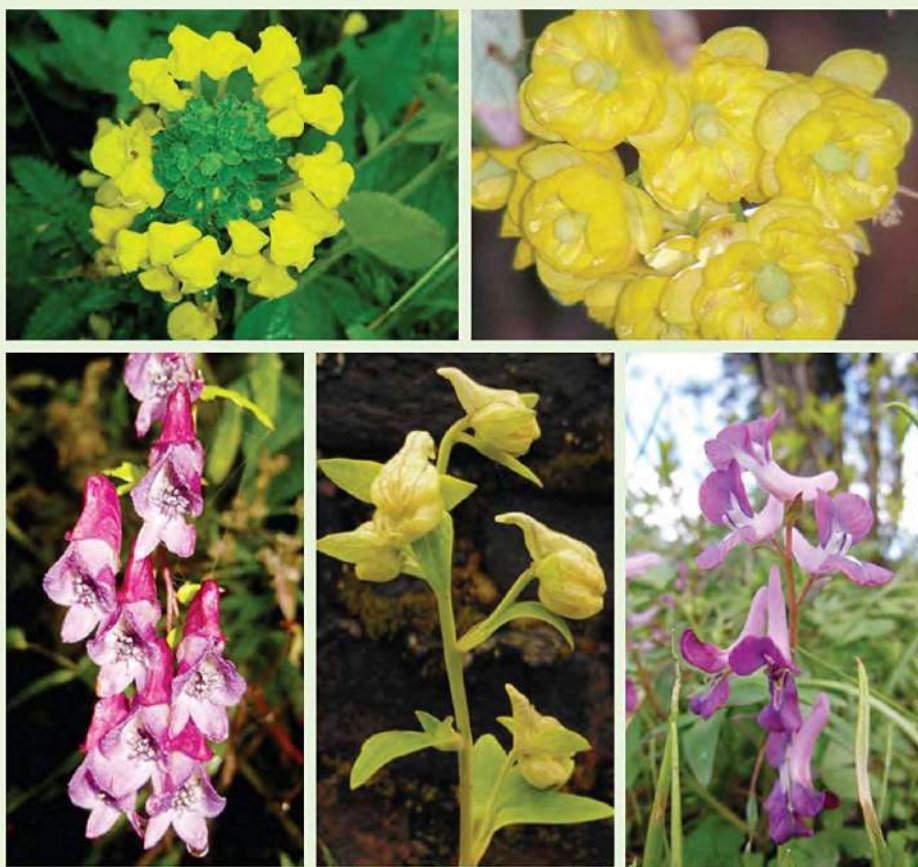
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*Felicitation Volume in Honour of Dr. Tariq Husain*



Editors

Priyanka Agnihotri  
J.S. Khuraijam

## CONTENTS

Foreword.....	iii
Preface.....	v
Scientific Contributions of Dr. Tariq Husain.....	vii
<b>1. Taxonomic studies on the genus <i>Delphinium</i> L. (Ranunculaceae) from India</b>	<b>1</b>
<i>Priyanka Agnihotri &amp; Danish Husain</i> .....	
<b>2. New insights into the enigmatic genus <i>Hemiphragma</i> Wall.</b>	<b>57</b>
<i>Prashant K. Pusalkar &amp; D.K. Singh</i> .....	
<b>3. The genus <i>Hoya</i> R. Brown (Apocynaceae: Asclepiadoideae) in India</b>	<b>75</b>
<i>Jibankumar Singh Khuraijam, Dinabandhu Sahoo &amp; Priyanka Agnihotri</i> .....	
<b>4. <i>Silene pseudoindica</i> (Caryophyllaceae) - a new species from Nepal, hitherto confused with <i>S. indica</i></b>	<b>91</b>
<i>Magnus 'Lärksporre' Lidén</i> .....	
<b>5. <i>Silene indica</i> (Caryophyllaceae) is not an Indian species</b>	<b>99</b>
<i>Magnus 'Lärksporre' Lidén</i> .....	
<b>6. A conspectus of the Tribe Vernoniae (Asteraceae) in India</b>	<b>107</b>
<i>Bandana Bhattacharjee, P. Lakshminarasimhan, Sobhan Kumar Mukherjee &amp; Avishek Bhattacharjee</i> .....	
<b>7. Floristic diversity of Kashmir Himalayan Grasslands</b>	<b>125</b>
<i>Anzar A. Khuroo, Zafar A. Reshi, G.H. Dar &amp; Akhtar H. Malik</i> .....	
<b>8. Taxonomic studies of the genus <i>Rhynchoetichum</i> of Indian part of Eastern Himalaya</b>	<b>145</b>
<i>Susmita Roy, T.K. Paul &amp; Sobhan Kr. Mukherjee</i> .....	
<b>9. The wild plant's status of north-eastern Uttar Pradesh: Diversity - depletion scenario</b>	<b>157</b>
<i>Sumit Srivastava &amp; R.P. Shukla</i> .....	
<b>10. A Check-list of <i>Crotalaria</i> L. in India</b>	<b>175</b>
<i>A.A. Ansari &amp; Vibha Chauhan</i> .....	

# 8

## CHAPTER

### Taxonomic Studies of The Genus *Rhyncho techum* of Indian Part of Eastern Himalaya

Susmita Roy<sup>1\*</sup>, T.K. Paul<sup>2</sup> & Sobhan Kr. Mukherjee<sup>3</sup>

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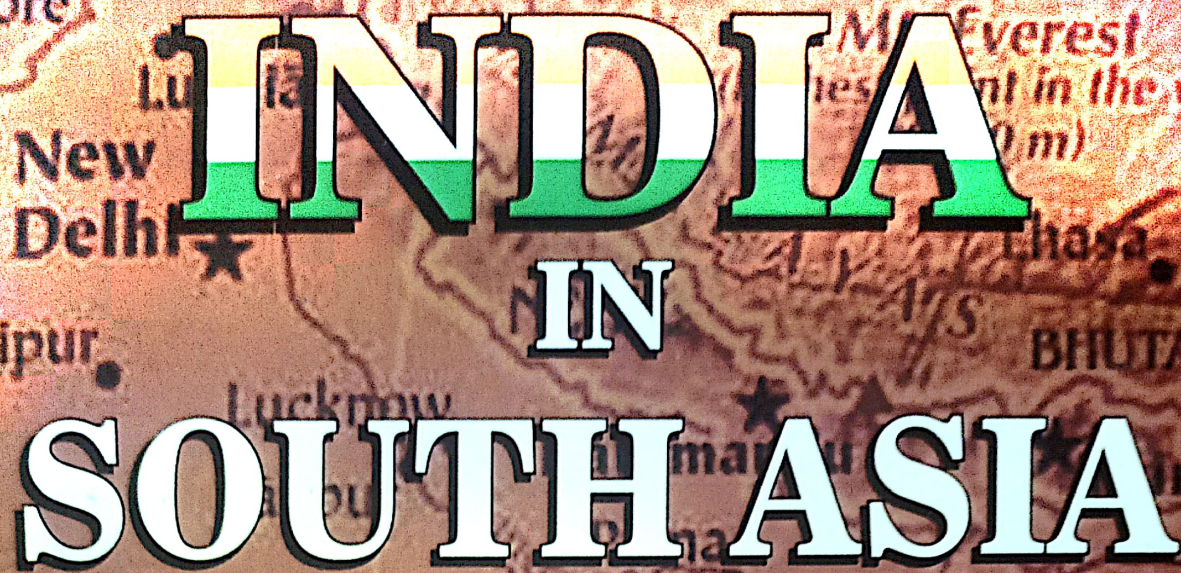
#### Abstract

*Rhyncho techum* Blume is a very interesting genus of the family Gesneriaceae differing from other genera having clustered cymose inflorescence and white berry fruit. Burt and Wiehler (1995) placed *Rhyncho techum* in the tribe Cyrtandreae under the subfamily Cyrtandroideae. Six species viz., *R. calycinum*, *R. ellipticum*, *R. hookeri*, *R. vestitum*, *R. alternifolium* and *R. gracile* under the genus have been recorded from Indian part of Eastern Himalaya. Two species *R. calycinum* and *R. ellipticum* have ethnobotanical importance. The genus has been studied in details on the basis of herbarium specimens available in different herbaria (CAL, ASSAM, ARUN and Lloyd Botanic Garden Herbaria) and the relevant literature pertaining to Eastern Himalaya. Distribution map and phonological calendar of the studied species have been provided to show their diversity.

**Key words:** *Rhyncho techum*, Cyrtandreae, Gesneriaceae, Eastern Himalayas, India.

#### Introduction

Gesneriaceae, one of the 23 families of the order Lamiales (Weber, 2004), consists of 139 genera with 2,900 species distributed in the tropical to temperate climate of the world (Mabberley, 2008). The Angiosperm Phylogeny Group



# INDIA IN SOUTH ASIA

*Challenges And Opportunities*

*Edited by*

**DR. PROSENJIT PAL**

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## The Impact of Terrorism on Globalisation and the Question of Social Security in India.

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### Introduction

Globalization is a multi-dimensional phenomena which has opened up a hornet's nest in the realm of security. With the inception of globalization the question of social security of the states have emerged as a grave concern for the states as terrorism has acquired a new face. The world seems to stand at the cross roads as global terrorism has started giving vent to the already hidden notion of a broader case of social deprivation, political and economic exploitation suffered by the less developed countries. To be more focused, global terrorism has united the Muslim minorities living in the various Third World countries, who have suffered at the hands of the rich, developed, industrialized, mostly western countries and the mostly non- Islamic population inhabiting them. The increasingly newer and changing tactics and methodologies of global terrorist networks- the New Terrorism with "Jihad" as their ideological rationale, seems to be an exercise of their right to self- determination, and an attempt to break the shackles of exploitation spearheaded by the USA.<sup>1</sup>

The echoes of "jihad" have also been experienced in India in the form of various terrorist attacks in various parts of the country