Proceedings of the National Conference on Biodiversity : Status and Challenges in Conservation 'FAVEO 2013'

29th and 30th November 2013

Organized by

Department of Zoology and Environmental Science Vidya Prasarak Mandal's B. N. Bandodkar College of Science NAAC re-accredited 'A' grade Best College Award (University of Mumbai) Selected for FIST 'O' level Jnanadweepa, Chendani Bunder Road, Thane (W) 400 601. Maharashtra *In Collaboration with* Sálim Ali Centre For Ornithology and Natural History (SACON) Coimbatore, Tamilnadu. And

> World Wide Fund for Nature- India Maharashtra State Office,

Mumbai, Maharashtra

Dr. (Mrs.) Madhuri K. Pejaver Principal, Convener Dr. (Mrs.) Poonam N. Kurve Organizing Secretary

Organizing Committee

Dr. (Mrs.) N. N. Patil Dr. R. P. Athalye Prof. S. D. Rathod Dr. (Mrs.) V. D. Manjramkar Dr. K. M. Pariya Dr. Goldin Quadros (SACON) Dr. (Mrs.) M. U. Borkar Dr. (Mrs.) V. U. Somani (M. D.College) Prof. D. D. Shenai Prof. A. S. Joshi

Editorial Committee

Dr. (Mrs.) P. N. Kurve Dr. (Mrs.) V. U. Somani Prof. A. S. Joshi Dr. Goldin Quadros Mr. D. D. Shenai

Advisory Committee

Prof. Vinayak Dalvi	:	Chairman, Board of Studies, Zoology, University of Mumbai.
Dr. Vasanti Katchi	:	Principal, Bhavans College, Andheri.
Dr. Vijay Joshi	:	Principal, K. J. Somaiya College of Science and Commerce, Vidyavihar.
Dr. P. G. Kale	:	Head, Department of Zoology, R. Jhunjhunwala College, Ghatkopar.
Dr. Deepak Apte	:	Chief Operating Officer, BNHS, Mumbai.

Research Committee

Dr. (Mrs.) M. S. Mulgaonkar Dr. M. N. Nyayate Dr. M. N. Rathnam Dr. M. J. Kolet Dr. (Mrs.) M. B. Saha Dr. (Mrs.) A. S. Goswami-Giri Dr. (Mrs.) P. V. Jagasia Prof. Mrs. M. J. Gholba Dr. V. M. Jamdhade Mrs. K. H. Manjrekar

Ms. Gayatri Oak Ms. Komal Sutar Ms. Jyoti Tiwari Ms. Ratna Yadav Ms. Sumaiya Syed Ms. Bhavika Bhoir Mr. Vicky Patil

Please Note:

The Authors of the papers are solely responsible for technical content of the papers and references cited therein.

Front Cover photos by Dr. Mrs. Poonam N. Kurve

Back Cover photos by Dr. Mrs. Poonam N. Kurve Mr. D. D. Shenai Mr. A. S. Joshi

ISBN: 978-81-923628-1-6

Non teaching Staff

Mrs. S. S. Lad Mr. M. Y. Autade Mr. D. D. More Mr. V. B. Shigwan Mr. V. G. Shelavale Smt. S D. Sarangdhar Mr. S. R. Patil Mrs. S. S. Talpe Mr. S. V. Rasam

Students Committee

- Mr. Sainath Bamane Ms. Krutika More Ms. Reenu Shrivastav Ms. Bhagyashree Utangale Ms. Madhura Malvankar Ms. Prachita Gujare Mr. Harish Salave
- Ms. Sayali Gondhalekar Ms. Samruddhi Thakekar Mr. Anurag Sawant Ms. Sonia Benjamin Ms. Kamini Mahale Ms. Vishakha Mokashi Ms. Pranoti Joshi-Khanolkar

Published by :

Department of Zoology and Environmental Science VPM's B.N. Bandodkar College of Science "Jnanadweepa", Chendani, Bunder Road, Thane (W) 400 601. Maharashtra Tel. : 2533 6507 www.vpmthane.org

Printed at

Perfect Prints 22, Jyoti Industrial Estate, Nooribaba Darga Road, Thane 400 601. Tel.:2534 1291/2541 3546 Email:perfectprints@gmail.com

Citation: *Proceedings of National Conference on Biodiversity:Status and Challenges in Conservation 'FAVEO 2013'* Edited by P. N. Kurve, Goldin Quadros and V. U. Somani. Published by Dept. of Zoology and Environmental Science, VPM's B. N. Bandodkar College of Science, Thane. 2013 pp. 262 + viii.

ନେଙ୍କନେଙ୍କନଙ୍କନଙ୍କନଙ୍କନଙ୍କନଙ୍କନଙ୍କନଙ୍କନଙ୍କ

🖗 With Best Compliments from 🎉

1. Shreeji Industries, Mulund (W) Mumbai.

2. Mr. Vikram P. Phale; Pearson, Arizona, U.S.A. (Alumni, B. N. Bandodkar College of Science, 1997-98 Batch).

Chairman's address

It gives me immense pleasure to hand over the proceedings of National Conference on "Biodiversity: Status and Challenges in Conservation FAVEO 2013" to be held under the auspices of V.P.M.'s B. N. Bandodkar College of Science, Thane.

Twentieth century saw some revolutionary scientific break through leading to huge consumer industry growth. Every available opportunity was used to exploit the natural resources beyond its sustainability. Success was measured in terms of per capita consumption of natural resources. Modernity and development became synonymous with this consumption model, which totally ignored the interconnectedness of the nature and man. A new economic model and life style to suit this consumption model became *mantra* of progress and modernity. Respect to mother earth was the basis of traditional society. Every member of family was taught to make compromises at every stage of life in the traditional model of the society. This fabric was destroyed and society was nurtured to become self-centered to suit the consumer model. Obviously this model led to disastrous environmental consequences. Biodiversity became its first victim.

Scientific community did recognize this environmental impact of human life style and consistently advocating a sustainable model of development with respect to biodiversity. Ideologically committed environmental moments have done more damage and all efforts should me made to isolate them from science-based activity. Reform does not mean reckless change in traditional way of life. Indian culture did respect biodiversity, and all efforts to restore that fabric of the culture should be done with all priority as a part of biodiversity restoration moment.

I am sure deliberations of this conference will throw light on many dark corners of this subject and participants will be richer in knowledge by the end of the day.

I wish this conference a grand success.

Dr. Vijay V. Bedekar Chairman Vidya Prasarak Mandal, Thane

Convener's note

Biodiversity is the word which has gained a lot of importance in the last decade. When we talk about biodiversity, it includes the diversity of all living beings. But it also indicates the need for conservation of same.

The biodiversity on the land, water or air varies due to the adaptations of various organisms for the specific environment. Hence, we can see the biodiversity varying in different ecological conditions, climatic conditions as well as geographical conditions.

Thus, to conserve this we need to protect the environment; else the diversity of organisms will perish one day. Therefore, we have to bow in front of goddess 'Faveo' to bless the earth and the biodiversity existing on earth. An attempt is made by staff and students of departments of Zoology and Environmental Science for praying to the Goddess 'Faveo' to bless us.

I am thankful to both the departments for taking all possible efforts to make this conference successful and happy to hand over the proceeding to you.

Principal Dr. (Mrs.) Madhuri K. Pejaver Convener B. N. Bandodkar College of Science, Thane