

September 12, 2023

**Department of Zoology** 

Mahatma Gandhi Arts, Science and Late N. P. Commerce College, Armori



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### Introduction:

The e-Conference on Ecological Restoration, Climate Change, and Biodiversity Conservation convened a global community of experts, policymakers, practitioners, and stakeholders to address the pressing challenges facing our planet. The conference served as a critical platform for knowledge sharing, collaboration, and the development of innovative solutions to restore ecosystems, mitigate climate change, and safeguard biodiversity. This report provides a comprehensive overview of the conference proceedings, key findings, and recommendations.

By bringing together diverse perspectives and experiences, the e-conference aimed to advance the understanding of the intricate linkages between ecological restoration, climate change, and biodiversity conservation. This report delves into the core themes and discussions that emerged during the conference, highlighting the most significant contributions and insights. It also provides an analysis of the challenges and opportunities identified, as well as recommendations for future actions to accelerate progress towards a sustainable and resilient future.

#### **Objectives of Webinar:**

- Raise awareness about the critical interconnections between ecological restoration, climate change, and biodiversity conservation.
- Disseminate the latest scientific findings and research on these topics.
- Share best practices and case studies of successful restoration projects.
- Promote understanding of the importance of ecosystem services for human well-being.

#### **Themes:**

- Effect of Climate change on biodiversity.
- Efforts for ecological restoration.
- Biodiversity conservation through sustainable development.

## Platform of the One Day International e-Seminar and Organising Committee:

The e - Seminar was held online platform using Zoom meeting app and YouTube Live Streaming.

The links to register and join the event are as follows: <u>https://forms.gle/pZUGjZQEVA4uHC6g9</u> Zoom link to join National Webinar: <u>https://us06web.zoom.us/j/3187894464?pwd=dlM5TWRHU3dqakliYjMreGg2SndxZz09</u> You tube Link: <u>https://youtube.com/live/FPO8xZ09ruw?feature=share</u>

The organising committee of the One Day National e-Seminar was as follows: Organizer: Dr. L. H. Khalsa (Principal) Organising Secretary: Dr. J.N. Papadkar, Head, Department of Zoology Organising Convener: Prof S. B. Kumre, Mr N.A. Borode, Department of Zoology

## **Inaugural Session and Expert Talks:**

**Dr. L. H. Khalsa**, The Principal of the Mahatma Gandhi Arts, Science and Late Nasaruddinbhai Panjwani Commerce College, in his introductory address, welcomed the Guest and Invited speakers, Participant and highlighted the aims and objective of the e-seminar. His address focuses on the importance taxonomic studies for the conservation of biodiversity.

The chief guest and Invited speaker of the programme **Prof.** (**Dr.**) **Ravindra Kshirsagar, Head, Post Graduate Department of Zoology and Research Center, Modern College of Arts, Science and Commerce, Ganeshkhind Pune** (**Dr.**) **Shyamkant Talmale, Scientist C, Zoological Survey of India, Western Regional Center, Pune. Mr. Rundan Katkar, Range Forest Officer, Kolsa, Tadoba Andheri Tiger Reserve** graced the Programme.

## **Technical Session**

**Prof. (Dr.) Ravindra Kshirsagar,** was delivered talk on "Effect of Climate Change on **Biodiversity**" the presentation start with relationship between climate change and habitat loss. Dr. Kshirsagar focuses on How climate change is altering ecosystems and disrupting wildlife habitats, Discuss the increasing rate of species loss due to climate change, Explain the impact of rising CO2 levels on marine life, Analyze the effects of hurricanes, droughts, and floods on biodiversity and Discuss how species are migrating due to climate change.

Dr. Shyamkant Talmale, Scientist C, Zoological Survey of India, Western Regional Center, Pune delivered his expert talk on topic "Role of Faunal Studies in Biodiversity Conservation: In Respect of Indian Mammals" As per the Dr. Shyamkant Talmale faunal studies, the scientific investigation of animal life, are instrumental in understanding and conserving biodiversity. This is particularly evident when focusing on Indian mammals, a group renowned for its diversity and unique adaptations. Regular monitoring of mammal populations helps track trends, identify declining populations, and assess the effectiveness of conservation measures. Studying mammal habitat preferences and requirements aids in habitat conservation and restoration. By examining the interactions between mammals and other species, researchers can unravel complex ecological relationships and identify key conservation priorities. By investing in faunal studies and implementing effective conservation strategies, we can safeguard India's rich mammalian heritage for future generations.

**Mr. Rundar Katkar** Who is range forest officer in TATR delivered his talk on "**Conservation Practices in TATR**" He share his valuable experience of work during various practices was held in TATR for the conservation of animal fauna like tiger conservation, vulture conservation, Anti-Poaching Measures, Habitat Management, Community Involvement. By adopting a holistic approach and involving local communities, TATR can continue to be a model for tiger conservation in India.

Prof. Sunanda B. Kumre conducted the proceeding and Mr. Nikhil A. Borode proposed a vote of thanks.

#### **Participants of the Programme:**

In this National e - Seminar, 437 participants from different states of India.

Overall, the programme went well and all the dignitaries and concern person attended the programme and made it a very successful.

#### Annexure I : Brochure Programme and Schedule

Manoharbhai Shikshan Prasarak Mandal Armori's

Mahatma Gandhi Arts, Science and Late Nasaruddhinbhai Panjwani Commerce College, Armori Dist. Gadchiroli (M.S.) India 441208.

NAAC Reaccredited with 'A' Grade CGPA. - 3.24

National Webinar on "Ecological Restoration, Climate Change and Biodiversity Conservation"

on Tuesday, 12<sup>th</sup> September 2023 Organized by Department of Zoology



At the global level, human activities have caused and will continue to cause a loss in biodiversity. Change in climate exert additional pressure and have already begun to affect biodiversity. Climate change is projected to affect all aspects of biodiversity, however, the projected changes have to take into account the impacts from past, present and future human activities. The general effect of projected human- induced climate change is that the habitats of many species will move pole ward or upward from their current locations. The changes in the frequency, intensity, extent and locations of disturbances will definitely affect but how what rate the existing ecosystem will be replaced by new animal and plant assemblages will be unpredictable. Globally by the year 2080 about 40% of biodiversity could be lost. The risk of

Globally by the year 2000 about 40% of producersity could be lost. The risk of extinction will increase for many species that are already vulnerable. Where significant ecosystem disruption occurs, there may be losses in net ecosystem productivity (NEP) at least during the transition period. Changes in biodiversity at ecosystem and landscape scale, in response to climate change and other pressure would further affect global and regional climate. Changes in biodiversity in response to climate change is present significant challenges.

We need healthy and productive ecosystems to benefit from the multiple environmental, economic and social benefits they provide. Ecosystem restoration offers the opportunity to effectively halt and reverse degradation, improve ecosystem services and recover biodiversity. There are many different facets of restoration ecology, and they include practices such as erosion control, reforestation and revegetation (or replanting the native species of plants), removal of non-native species and reintroduction of native animal species.

The effectiveness of adaptation and mitigation activities can be enhanced when they are integrated with broader strategies designed to make development path more sustainable.

#### **Objectives of the Webinar:**

To enhance understanding of relationship among ecological restoration, climate change and biodiversity and to assess the response of biodiversity to the change in climatic factors and other pressures.
To improve understanding of the local and regional scale impacts of climate on biodiversity.
To develop assessment methodologies, criteria and indicators to assess the impact of climate change mitigation and adaptation activities on biodiversity and its sustainable development.
To identify the tools for biodiversity conservation activities for sustainability and policies that would beneficially affect climate change in Indian pretext.
Themes: \*Effect of climate change on biodiversity.

\*Efforts for ecological restoration.
 \*Biodiversity conservation through sustainable development.

#### **Invited Speakers**

Dr Ravindra Kshirsagar Head, Post Graduate Department of Zoology and Research Center, Modern College of Arts Science and Commerce Ganeshkhind, Pune

> Dr. Shyamkant Talmale Scientist C Zoological Survey of India (ZSI) Western Regional Center, Pune

Rundan Katkar Range Forest Officer, Kolsa, Tadoba Andheri Tiger Reserve (TATR)

National Webinar Platform Online Mode Webinar commences at 11:00 am IST Link for online registration: https://forms.gle/p2UGj2QEVA4UHC6g9 Zoom link to join National Webinar: https://jus06web.zoom.us//31878944647pwd=dIM5TWRHU3d gak/IWre6g2Srodsz09 You tube Link: https://youtube.com/live/FPOBs209ruw?feature=share Patron Hon. Smt. Smiintai K.Vammali Hon Skri Manojbhau W. Wammali President, M.S.P.M., Armori Scretary, M.S.P.M., Armori Organizer Dr.L.H.K.halsa Principal

Organizing secretory Dr.Jayesh Papadkar

PROF. S.B. KUMRE PROF. S.B. KUMRE PROF. N.A. BORODE PROF. D. W. SAHARE e-Certificate will be given to participant:



Manoharbhai Shikshan Prasarak Mandal Armori's Mahatma Gandhi Arts, Science and Late Nasaruddhinbhai Panjwani Commerce College, Armori Dist. Gadchiroli (M.S.) India 441208. NAAC Reaccredited with 'A' Grade CGPA. -3.24

Cordially invites you for the National Webinar on "Ecological restoration, Climate change and Biodiversity conservation" On 12<sup>th</sup> September 2023 at 11 am

#### INTRODUCTORY SPEECH

Dr. Laising Khalsa Principal (Organizer) Time :- 11 to 11:20 am

#### **Invited Speakers**

> Dr Ravindra Kshirsagar

Head, Post Graduate Department of Zoology and Research Center, Modern College of Arts Science and Commerce Ganeshkhind, Pune Time :- 11:25 to 12:25 pm

> Dr. Shyamkant Talmale Scientist C Zoological Survey of India (ZSI) Western Regional Center, Pune Time :- 12:30 to 1:30 pm

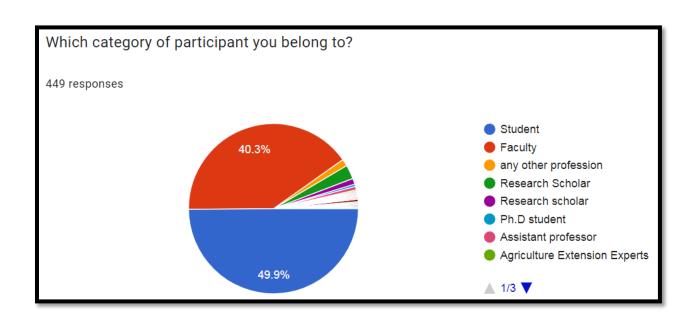
> > Rundan Katkar

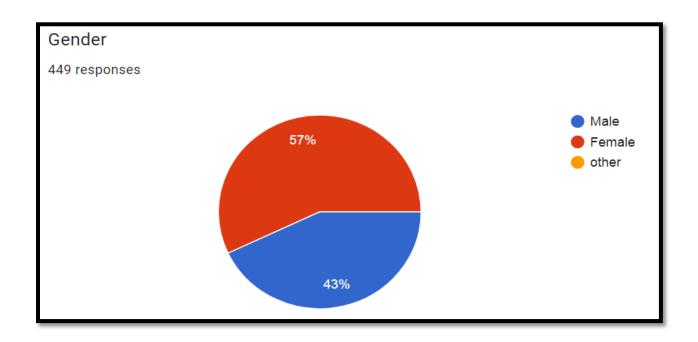
Range Forest Officer, Kolsa, Tadoba Andheri Tiger Reserve (TATR) Time :- 1:35 to 2:35 pm

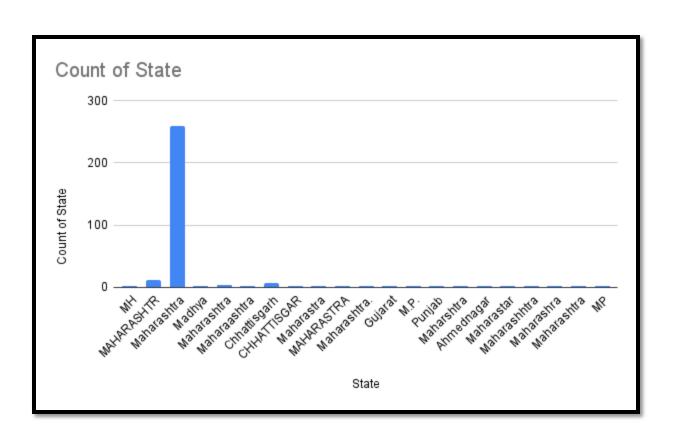
VOTE OF THANKS

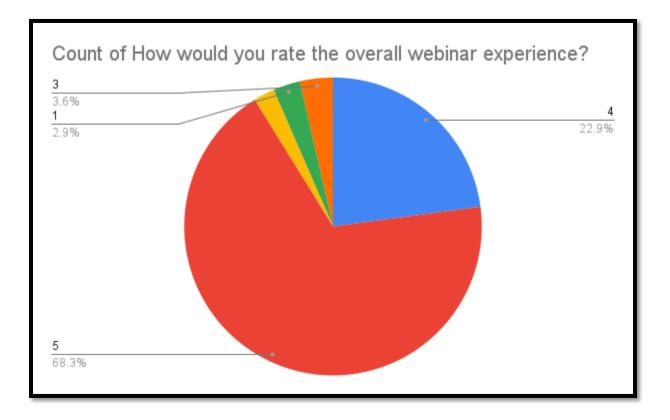
Dr. Jayesh Papadkar Organzing Secretory CONVENER

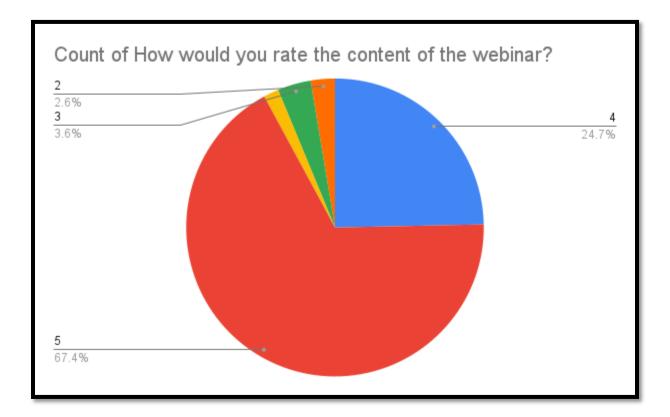
PROF. S.B. KUMRE PROF. N.A. BORODE PROF. D. W. SAHARE

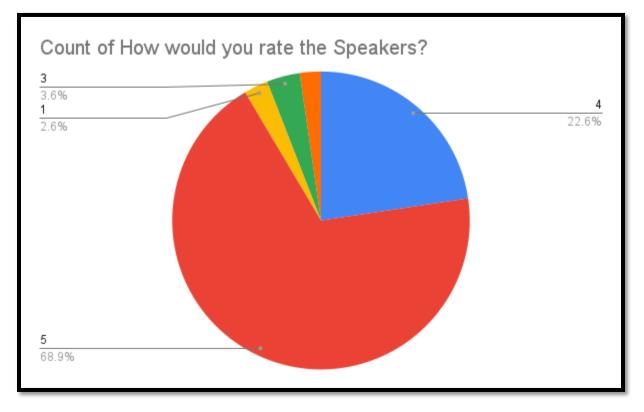


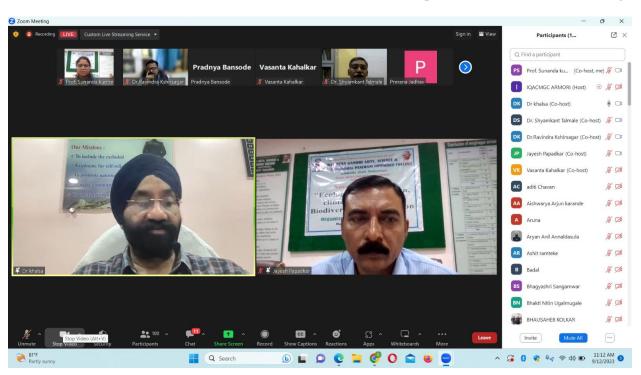




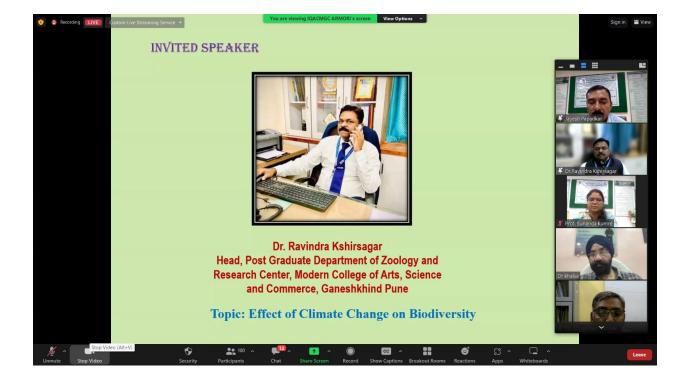


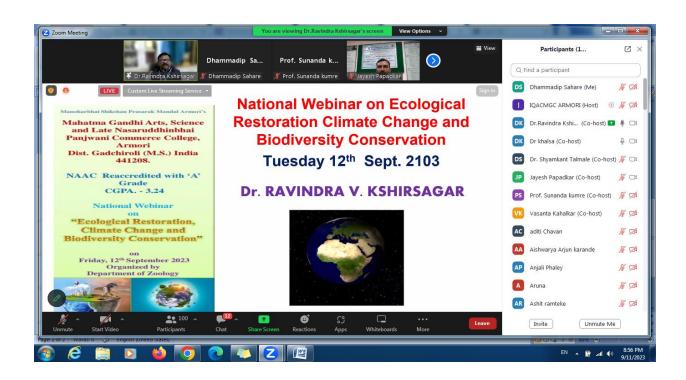


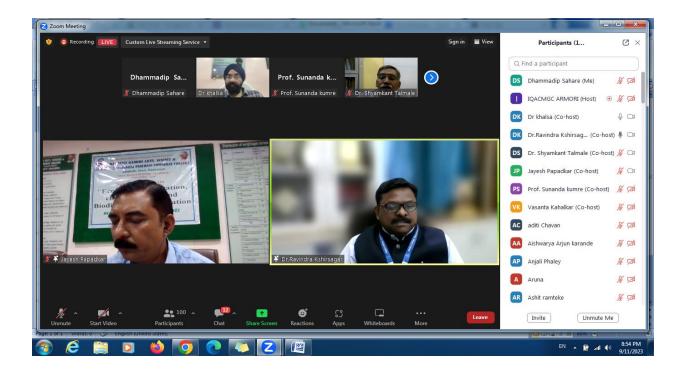














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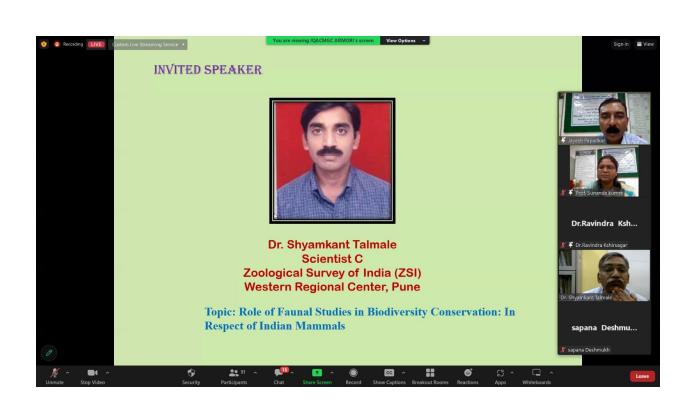
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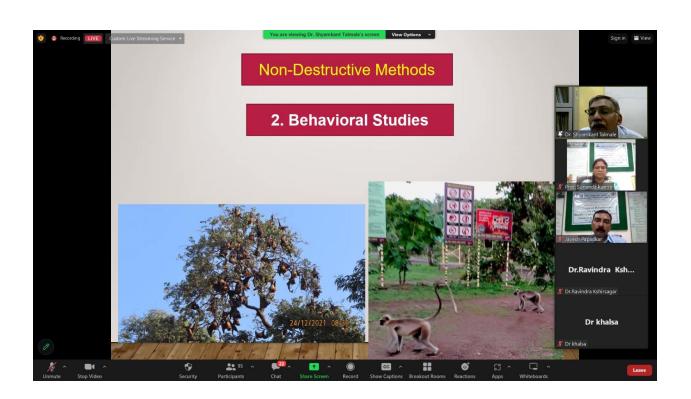


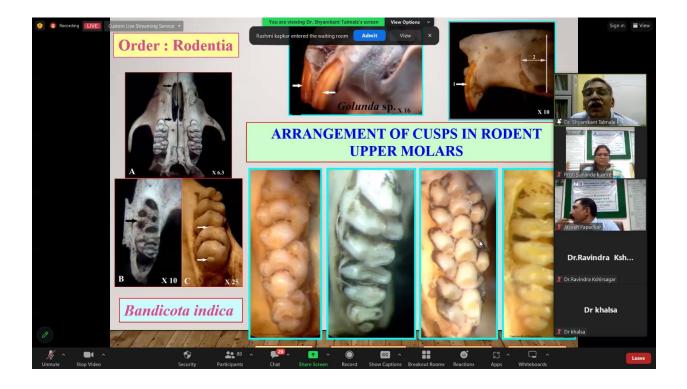
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### Annexure IV : Certificate



# CERTIFICATE

Principal

OF PARTICIPATION

This is to Certify that Prof./Dr./Mr./Mrs.

From

has Successfully participated in National Webinar on *"Ecological Restoration, Climate Change and Biodiversity Conservation*" Organized by Department of Zoology, Mahatma Gandhi Arts, Science and Late N.P. Commerce College, Armori Dist. Gadchiroli on 12th September 2023.

Organizing

secretory 12th September 2023

