

# ZSI E-News

Vol. 74 | March 2025 | Monthly E-Newsletter from Zoological Survey of India



## from the Director's Desk



Dear Colleagues, Readers, Partners and Friends,

I am delighted to present the successful publication of the Zoological Survey of India's monthly E-News for March 2025. This initiative represents a significant advancement in our collective mission to improve the visibility, outreach, and impact of our scientific work. The E-News acts as a dynamic platform for highlighting our monthly accomplishments in faunal exploration, field surveys, taxonomic documentation, the identification of new species, ecological assessment and conservation practices. It embodies our dedication to promoting biodiversity research and enhances our understanding of India's rich and varied fauna. Through regular updates, the newsletter not only showcases our scientific discoveries and new records but also emphasizes the innovative conservation strategies being implemented across various ecosystems. Moreover, it documents our substantial contributions to both national and international policy-making processes, as well as our commitment to capacity building through training programs, workshops, and collaborative efforts. This ongoing documentation and sharing of knowledge solidify our position as a leading institution in biodiversity research and conservation.

Zoological Survey of India organized the National Conference on Invasive Alien Fauna: Threats and Challenges on 25<sup>th</sup> & 26<sup>th</sup> March 2025, at Hotel Hindustan International in Kolkata, brought together specialists to discuss the growing threats that invasive alien species (IAS) pose to India's biodiversity and economy. The discussions highlighted the harmful effects of IAS, including habitat destruction, the displacement of indigenous species, and significant economic repercussions. Dr. C. R. Babu, Professor Emeritus, University of Delhi, served as the Chief Guest for the conference, while Dr. A.A. Mao, Director, Botanical Survey of India, attended as the Guest of Honour. The National Conference saw the participation of 150 attendees. As a result of the conference, a detailed set of recommendations was developed. There was a strong emphasis on the urgent need for a comprehensive national strategy to manage and mitigate the threats posed by IAS, which should include early detection, monitoring, eradication efforts, and regulations on the trade and movement of species to prevent further introductions. The event concluded with a call for collaborative initiatives among scientists, policymakers, and local communities to protect India's rich biodiversity from the challenges presented by invasive alien fauna.

This month, scientists and researchers at ZSI have successfully identified 1526 species within various faunal communities across India's diverse ecosystems. This accomplishment features the discovery of thirteen new species, which include one new frog species, one fish species, one new species of Lepidoptera, one Hemiptera species, two species of Arachnida, two species of Annelida, and five species of Ephemeroptera. Notably, one species each from the Arachnida, Lepidoptera, and Orthoptera orders has been recorded for the first time in India.

I urge all our scientists, researchers, and collaborators to persist in their invaluable efforts with the same level of dedication and enthusiasm. May this E-News serve as a source of inspiration for even greater accomplishments in the future.

Jai Hind,

**Dr. Dhriti Banerjee**

Director

5<sup>th</sup> April 2025  
Kolkata

**Cover:** *Cinnyris asiaticus*  
(Latham, 1790)

**Courtesy:** SRC, Chennai

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## HEADQUARTERS, KOLKATA, WEST BENGAL

Survey tours were conducted to Western Ghats, Dihang-Dibang Biosphere Reserve, Gulf of Kachchh and Dwarka Coasts of Gujrat. A total of 509 species of faunal communities belonging to Acanthocephala, Arachnida, Crustacea, Diptera, Ephemeroptera, Hymenoptera, Lepidoptera, Mantodea, Mollusca, Odonata, Orthoptera, and Platyhelminthes were identified. Apart from these, twenty-eight species of archaeological specimens were identified. A total of ten species belonging to Arachnida, Annelida, Lepidoptera, and Ephemeroptera were described as new to science. A total of three species belonging to Arachnida, Lepidoptera and Orthoptera was recorded for the first time from the country. A total of sixty-seven species of Arachnida, Annelida, Ephemeroptera, Lepidoptera, Hymenoptera, Mollusca,

Orthoptera and Platyhelminthes were augmented to National Zoological Collections (NZCs). Identification and advisory services were rendered to Bidhan Chandra Krishi Viswavidyalaya, Acharya N.G. Ranga Agricultural University and The University of Calcutta. National Conference on Invasive Alien Fauna: Threat and Challenges was organized by Zoological Survey of India on 25<sup>th</sup> and 26<sup>th</sup> March 2025 at Hotel Hindustan International, Kolkata. Dr. C. R. Babu, Professor Emeritus, University of Delhi, graced the conference as the Chief Guest and Dr. A.A. Mao, Director, Botanical Survey of India, honoured the event as the Guest of Honour. A total of 150 participants attended the National Conference. A comprehensive recommendation was prepared as the outcome of the conference.



## NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA

A survey tour was conducted to localities of Mamit, Aizawl, and Kolasib Districts of Mizoram under the project "A systematic study of the bat fauna of Mizoram state: North Eastern India" from 3<sup>rd</sup> to 22<sup>nd</sup> March 2025. A total of 100 species of faunal communities belonging to Odonata, Amphibia, Chiroptera, Mollusca, Reptilia, and Pisces were identified. A species belonging to snakehead (Teleostei: Channidae), *Channa nachi* Praveenraj *et al.*, 2025, was described as new to science and published during the month. Students of St. Edmunds College, Shillong, and Pandu College, Guwahati visited the museum of the centre on 4<sup>th</sup> march, and 19<sup>th</sup> March 2025 respectively.



Lesser hairy-winged bat *Harpiocephalus harpia* (Temminck, 1840)



The clipper *Parthenos sylvia* (Cramer, [1775])

## WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

A survey tour was conducted to Kalsubai Harishchandragad Wildlife Sanctuary, Maharashtra from 7<sup>th</sup> to 16<sup>th</sup> March 2025. A total of 229 species of faunal communities belonging to Amphibia, Crustacea, Scorpion, Araneae, Blattodea, Coleoptera, Hemiptera, Hymenoptera, Lepidoptera, Mollusca, Odonata, Pisces, and Mammalia were identified. A species of frog, *Minervarya ghatiborealis* Yadav, Bhosale, Patil, Khandekar, and Dinesh, 2025 (Anura: Dicroglossidae) from Maharashtra, India was described new to science during the month. Identification and advisory services were rendered to seven institutions and two manuscripts were reviewed by the scientists of the centre during this month. A total of twenty-two DNA barcodes submitted to NCBI. A total of 391 students from various educational institutions visited the museum of the centre during this month. भारतीय प्राणी सर्वेक्षण, पश्चिमी प्रादेशिक केंद्र, पुणे में 8 से 15 मार्च 2025 तक अंतर्राष्ट्रीय महिला दिवस सप्ताह मनाया गया और कॉलेज के छात्रों के बीच विभिन्न प्रतियोगिता (10 मार्च 2025 को एकल गीत गायन, 11 मार्च 2025 को स्वरचित अथवा नारी पर आधारित कविता पठन, और 12 मार्च 2025 को चित्रकला प्रतियोगिता) आयोजित किया गया।



Common Four-ring *Ypthima huebneri* Kirby, 1871 (Nymphalidae)



POSH meeting

# CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH

A survey tour was conducted to the Narmada Basin from 20<sup>th</sup> to 27<sup>th</sup> March 2025. A total of 127 species of faunal communities including Orthoptera, Lepidoptera, Hemiptera, Amphibia, and Mollusca were identified. Dr. Sandeep Kushwaha, scientist of the centre, received Wildlife Conservation Award at National Conference on Innovative and Morden Technologies for Environmental Management organized by Department of Environment

Biology, APSU, Rewa in association with Mahakaushal Vigyan Parishad, ZSI, NASI and SLS on 7<sup>th</sup> and 8<sup>th</sup> March, 2025. A total of fifty-one visitors including internship students from Govt. Home Science College, Jabalpur visited the museum of the centre. World Wildlife Day and International Womens Day was celebrated at the centre on 3<sup>rd</sup> March and 8<sup>th</sup> -15<sup>th</sup> March 2025 respectively.



ZSI, CZRC organized five-day Workshop with Vikram University Ujjain under the MOU program from 28.02.2025 to 05.03.2025



ZSI, CZRC organized One-day training program on Fossil Site Identification and Collection in District Dhar (M.P) with Geology Department Vikram University Ujjain.

# DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN

A survey tour was conducted to Todgarh-Raoli Wildlife Sanctuary, Rajasthan from 26<sup>th</sup> March to 2<sup>nd</sup> April 2025. A total of 150 species of faunal communities belonging to Gastropoda, Hemiptera, Hymenoptera, Lepidoptera, Coleoptera, and Pisces were identified. Identification and Advisory Service was rendered to BGSB University,

Rajouri (J&K). A stall representing the centre was erected at Regional Kisan Mela 2025 from 2<sup>nd</sup> to 4<sup>th</sup> March 2025, organized by Agriculture University Jodhpur. A total of fifty-six visitors visited the museum of the centre. The 50<sup>th</sup> International Women’s Day was celebrated at the centre.



International Women Week celebrated at DRC, ZSI, Jodhpur, Rajasthan from 8<sup>th</sup> to 15<sup>th</sup> March 2025



Stall of ZSI, DRC, Jodhpur at the Kisan Mela at Agriculture University, Jodhpur

## NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND

One survey tour was conducted to Kedarnath Wildlife Sanctuary, Uttarakhand from 17<sup>th</sup> to 21<sup>st</sup> March 2025. A total of 84 species of faunal communities belonging to Phthiraptera, Coleoptera, Orthoptera, Lepidoptera, Odonata, Pisces, Amphibia, and Reptilia were identified. “Mission LiFE Programme- Save Water, Save Electricity, Cleanliness Drive” was organized in the Kaulagarh Market Dehradun for awareness to common public and also by planting saplings under the initiative of Hon’ble PM of India

“Ek Ped Maa Kae Naam Campaign” by present and former Staff of ZSI, NRC, Dehradun at Kaulagarh Market and in the Matri Van of ZSI, NRC, Dehradun on 3<sup>rd</sup>, 7<sup>th</sup>, 10<sup>th</sup>, 18<sup>th</sup> and 21<sup>st</sup> March, 2025. Fruit saplings were planted by Prof. Manoj Kumar Arya, Associate Professor, Kumaon University, Nainital, Uttarakhand, Shri Sakesh Prasad Singh, Chief Controller of Account, MoEF&CC (Gol), New Delhi and his Team in the “Matri Van of ZSI, NRC, Dehradun” on 03<sup>rd</sup> and 10<sup>th</sup> March, 2025.



Dr. Gaurav Sharma participated as Chief Guest in International Conference at SGRR University, Dehradun



Fruit Saplings planted by Chief Controller of Account in the Matri Van of NRC



# SOUTHERN REGIONAL CENTRE, CHENNAI, TAMIL NADU

Two surveys were conducted to Western Ghats of Tamil Nadu and Kerala. A total of 111 species of different faunal communities were identified. Five species of Ephemeroptera were described as new to science. Two

Identification and Advisory services were rendered on fishes and Diptera to the Alpha Arts & Science College, Porur, Chennai, and Central Coffee Research Institute, Balehonnur, Karnataka, respectively.



National Symposium on Biodiversity conservation and Ecosystem Management

## GANGETIC PLAINS REGIONAL CENTRE, PATNA, BIHAR

A faunistic survey tour was conducted to Nagi-Nakti Dam Bird Sanctuary, Jamui and Kanwar Lake Bird Sanctuary, Begusarai from 22<sup>nd</sup> February to 5<sup>th</sup> March 2025. A total of 66 species of faunal communities belonging to Protozoa, Insecta, Mollusca, and Fishes were identified. A new species belonging to the family Pentatomidae, *Piezodorus brevis* Hassan, Shree, and Rahul, 2025, was described during the month. Three DNA barcodes for invasive and economically important species were generated. International Women's Day was celebrated on 12<sup>th</sup> March 2025 for recognizing the contributions of women in science and Biodiversity conservation.



Lesser Adjutant, *Leptoptilos javanicus* (Horsfield, 1821)



Celebration of International Women's Day at GPRC, Patna on 12<sup>th</sup> March 2025

# HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

Fifty-five species of faunal communities belonging to Lepidoptera, Trichoptera, and Pisces were identified. Six DNA barcodes of Lepidoptera have been submitted to NCBI. Three research articles and four Ph. D. thesis were reviewed by the scientists of the

centre. International women's week was celebrated on 12<sup>th</sup> March 2025 under the auspicious presence of Mrs. Ira Prabhat, State Director, Nehru Yuva Kendra, Solan. A total of fifty-five visitors visited the museum of the centre.



Women's day celebration at ZSI, SOLAN (HP)

## ANDAMAN AND NICOBAR REGIONAL CENTRE, SRI VIJAY PURAM, ANDAMAN AND NICOBAR ISLANDS

Three survey tours were conducted to Great Nicobar Island from 1<sup>st</sup> to 31<sup>st</sup> March 2025, to North and Middle Andaman from 17<sup>th</sup> to 23<sup>rd</sup> March 2025, to Swarajdweep from on 22<sup>nd</sup> March 2025 to study the Marine and Terrestrial faunal diversity. A survey was conducted to Devbhumi Dwarka, Gulf of Katchchh, Gujarat in connection with the REIA Studies on the Biotic components of Proposed installation of Well Head Platform and Construction of Onshore Terminal from 18<sup>th</sup> to 25<sup>th</sup> March 2025. Local surveys were conducted to Kalatang, Shaitan khari, Shoal Bay Mangrove Walk, Manjery, Sippighat, Tirur, Ograbraj-I, Chouldhari, Garacharma, Pongibalu, Chidiyatapu, Burmanallah, Kodyyaghat, Teylarabad, Mount Harriet National Park, Mahatma Gandhi Marine National Park, Chidiyatappu Biological Park to study the terrestrial fauna. A total of 168 species of faunal communities belonging to Arachnida, Lepidoptera, Orthoptera, Reptilia, Coleoptera, Hemiptera, Odonata, Aves, Decapoda, Fishes, and Mollusca were identified.



Red-eared Frog *Hylarana erythraea* (Schlegel, 1837)



White-headed Starling, *Sturnia erythropygia* Blyth, 1846

## FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA

A survey tour was conducted to Seshachalam Biosphere Reserve, Andhra Pradesh from 26<sup>th</sup> February to 13<sup>th</sup> March 2025. A total of ninety-five species of faunal communities belonging to Fishes, Aquatic Coleoptera, Aquatic Hemiptera, Branchipoda, Mollusca, and Amphibia were identified. Twelve DNA sequences were submitted to NCBI. International Woman's Day 2025, was celebrated in the centre with the campaign theme "Accelerate Action" emphasizing the urgency of advancing gender equality and the women employees of the centre were also honoured.



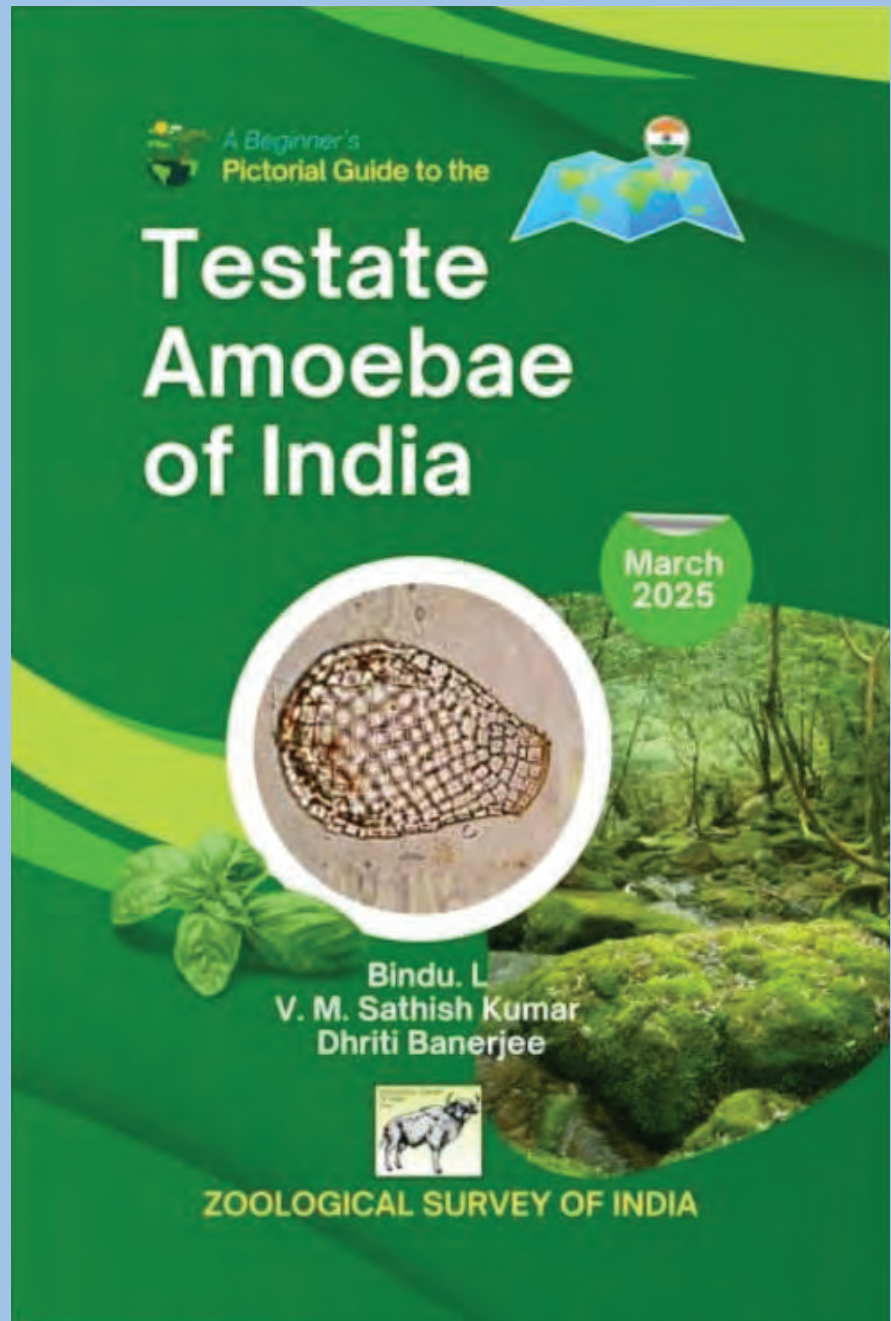
*Cinnyris asiaticus* (Latham, 1790) (Purple sunbird)



*Pelecanus philippensis* Gmelin, 1789 (Spot billed pelican)

## WESTERN GHAT REGIONAL CENTRE, KOZHIKODE, KERALA

A survey tour was conducted to Periyar Tiger Reserve, Kerala from 31<sup>st</sup> March to 11<sup>th</sup> April 2025. A total of 117 species of faunal communities belonging to Testate Amoeba, Coleoptera, Hymenoptera, Lepidoptera, Arachnida, and Pisces were identified. Identification and advisory services were rendered to three institutions and four manuscripts including a Ph.D. Thesis were reviewed during this month. A total of 140 visitors visited the museum of the centre. “*International Women’s Day*” was celebrated from 10<sup>th</sup> March to 15<sup>th</sup> March 2025 at the centre.



Cover page of “A Beginner’s Pictorial Guide to the Testate Amoebae of India”

## ESTUARINE BIOLOGY REGIONAL CENTRE, GOPALPUR-ON-SEA, ODISHA

A survey tour was conducted to Southern Odisha Coast. A total of 152 species of different faunal communities were identified. A total of eighteen DNA barcodes were uploaded in the NCBI. Museum of the centre was visited by 1078 visitors including students and teachers of various educational institutions. Mass nesting of Olive Ridley turtles for the second time occurred during the period of 23<sup>rd</sup> to 29<sup>th</sup> March, during which more than 56 old tagged turtles were recovered and observed to be returning to the earlier site. International Women's Day was celebrated at the centre.



Mass nesting at Rushikulya Rookery



*Pterois mombasae* (Smith, 1957)

## ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR, ARUNACHAL PRADESH

A survey tour was conducted to Kurung Kumey district of Arunachal Pradesh under the project “Entomophagy of Nyishi tribe in the district of Kurung Kumey, Arunachal Pradesh, India” from 10<sup>th</sup> to 22<sup>nd</sup> March 2025. A total of 111 species of faunal communities belonging to Hymenoptera, Coleoptera, Hemiptera, Lepidoptera, Orthoptera, Odonata, Amphibia, and Pisces were identified.



Silver-eared Mesia *Leiothrix argentauris* (Hodgson, 1837)



Pilot Capacity building programme for BMCs of Arunachal Pradesh



## MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

A survey tour was conducted to Gulf of Kachchh from 18<sup>th</sup> to 25<sup>th</sup> March 2025 and local surveys were conducted on 21<sup>st</sup>, 23<sup>rd</sup> and 24<sup>th</sup> March 2025. A total of 88 species of faunal communities belonging to Mollusca, Polychaeta, Nematoda, and Crustacea were identified. A total of twelve gDNA and twelve

PCR products have been amplified. A total of four manuscripts including a Ph. D. thesis were reviewed. A total of 20949 visitors including students from seventeen educational institutes of different states visited the museum of the centre.



Dwarka, Gulf of Kachchh



Workshop on "Marine Fauna Collection, Preservation, Identification Techniques, and Biodiversity Conservation in the Digha and Adjacent Areas" for the participants from students and faculty members of Pentecostal Bokaro School on 18<sup>th</sup> March 2025

# NEW DISCOVERIES

## NEW SPECIES



*Choroterpes (Dilatognathus) klugei* Kubendran, Vasanth & Subramanian, 2025



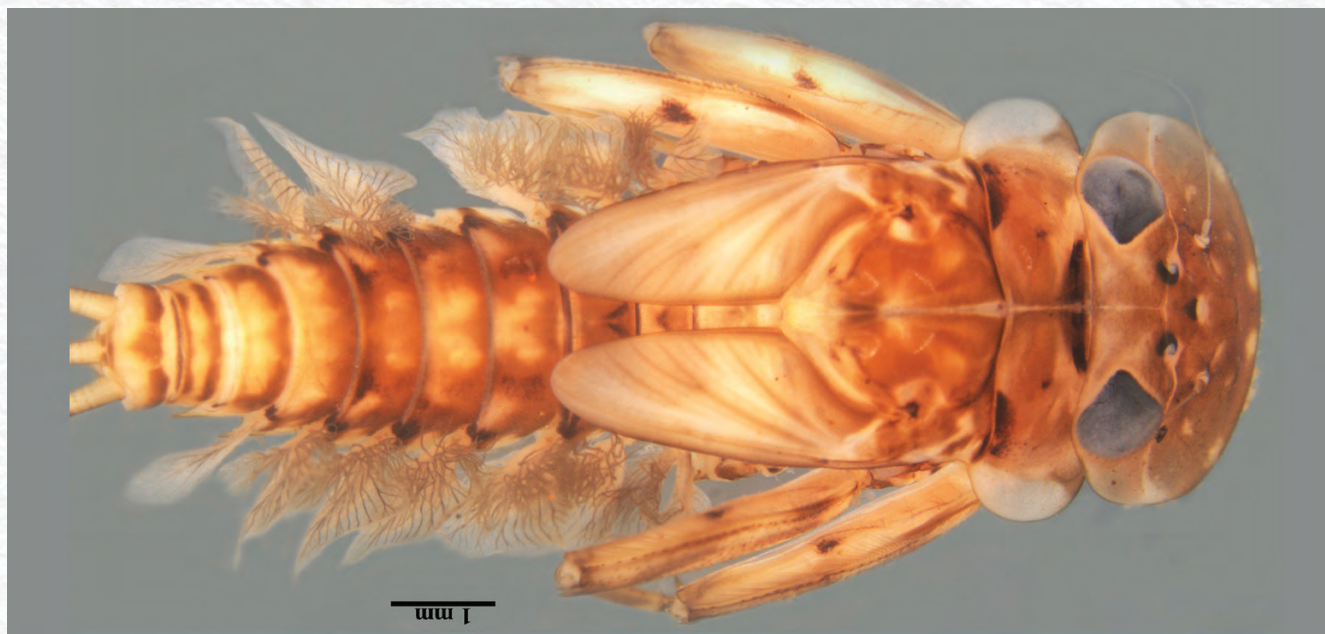
*Choroterpes (Dilatognathus) latus* Vasanth, Kubendran & Subramanian, 2025



*Choroterpes (Dilatognathus) triapicalis* Vasanth, Kubendran & Subramanian, 2025



*Thalerosphyrus bengalensis* Vasanth, Kubendran & Subramanian, 2025



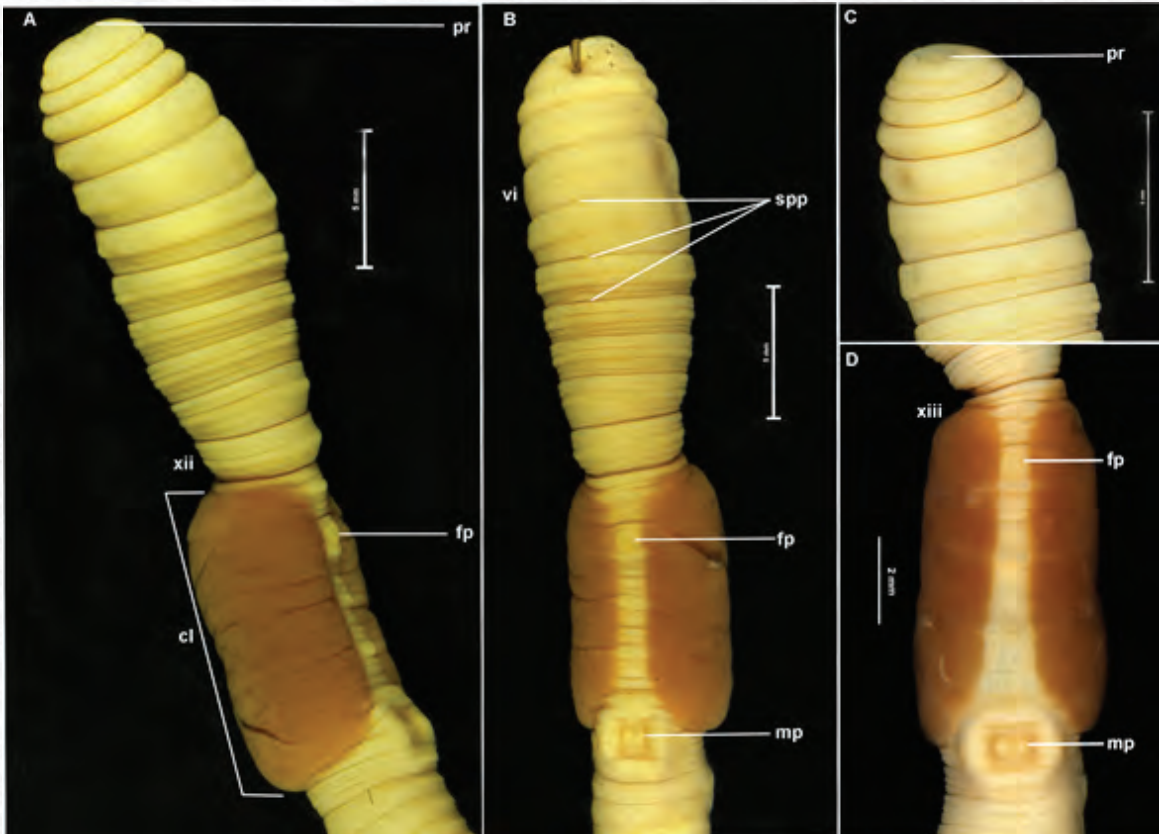
*Thalerosphyrus sartorii* Vasanth, Kubendran & Subramanian, 2025



*Psechrus chizami*  
Sudhin, Mali, Sarma  
& Sen, 2025

*Psechrus nathanael*  
Sudhin,  
Mali, Sarma & Sen,  
2025

*Eutyphoeus unithecus* Ahmed and Marimuthu, 2025



*Pridoscolex maduraiensis* Ahmed and Marimuthu, 2025



*Maladera champhaiensis* Gupta, Bhunia, Ahrens, and Chandra, 2025



*Neoserica churachandpurensis* Gupta, Bhunia, Ahrens, and Chandra, 2025



*Maladera barasingha* Gupta, Bhunia, Ahrens, and Chandra, 2025



*Maladera lumlaensis* Gupta, Bhunia, Ahrens, and Chandra, 2025



*Serica subansiriensis* Gupta, Bhunia, Ahrens, and Chandra, 2025



*Maladera onam* Gupta, Bhunia, Ahrens, and Chandra, 2025

## New Records



*Dendrolycosa robusta*  
(Thorell 1895)

# PUBLICATIONS

## BOOK

1. Raghunathan, C., Mondal, T., Balakrishnan, S. and Banerjee, D. 2025. Faunal Diversity of Mudflats of East Coast of India: *Wetland Ecosystem Series*, **27**: 1-270. (Published by the Director, Zoological Survey of India, Kolkata). ISBN: 978-81-986390-2-8.
2. Bindu. L, Kumar, V.M.S. and Banerjee, D. 2025. A Beginner's Pictorial Guide to the Testate Amoebae of India. 144 pp. Notion Press. ISBN: Paperback 979-8-89744-715-2; Hardcase 979-8-89744-720-6.
3. Tiwari, S., Patel, Y.K., Jahan, S. and Kushwaha, S., 2025. Sustainable Practices in Tribal Food Systems: Integrating Traditional Knowledge with Modern Food Processing Technologies. Pp 1-88. (Published by Rathore Publication New Delhi). ISBN: 978-93-49454-47-7.

## BOOK CHAPTERS

1. Bahuguna, A. 2024. Reptilia. In: Fauna of Valley of Flowers National Park, Uttarakhand: *Conservation Area Series*. **71**: 73-82. (Published by the Director, Zoological Survey of India, Kolkata).
2. Bahuguna, A., Kumar, A. and Sharma G. 2024. Fauna of Valley of Flowers National Park, Uttarakhand: An Overview. In: Fauna of Valley of Flowers National Park, Uttarakhand: *Conservation Area Series*. **71**: 1-21. (Published by the Director, Zoological Survey of India, Kolkata).
3. Balakrishnan, S. and Raghunathan, C. 2025. Annelida: Polychaeta. Chapter 12: 94-122. In: Raghunathan, C., Mondal, T., Balakrishnan, S. and Banerjee, D. (Eds.), *Faunal Diversity of Mudflats of East Coast of India: Wetland Ecosystem Series*. **27**: 1-270. (Published by the Director, Zoological Survey of India, Kolkata). (ISBN: 978-81-986390-2-8)
4. Das, S.K., Suresh Chand, D., Chakraborty, R., Das, D. and Karmakar, C. 2024. Insecta: Orthoptera. In: Fauna of Terai Ecosystem, pp 313-340. (Published by the Director, Zoological Survey of India, Kolkata).
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6. Hassan, M. E., Chandra, K., Biswas, B., Saha, P. C., Kushwaha, S., Mukherjee, P. and Praveen, K. 2025. Insecta: Hemiptera: Heteroptera (Terrestrial), In: Fauna of Terai Ecosystem. pp. 199 -236. (Published by the Director, Zoological Survey of India, Kolkata).
7. Jayasree, T. and Neethu, K. P. 2025. A study on diversity of fishes from Sathyamangalam Tiger Reserve, Erode District, Tamil Nadu. In: National Symposium on The Western Ghats: Biodiversity Conservation and Ecosystem Management (WGBCEM-2025), pp. 98.
8. Kubendran, T., Sidhu, A. K. and Nair, A. 2025. Insecta: Ephemeroptera. In: Faunal Diversity of Sainj Wildlife Sanctuary, District Kullu (Himachal Pradesh). *Conservation Area Series*, **78**: 19-27. (Published by the Director, Zoological Survey of India, Kolkata).
9. Kumar, A. 2025. Synurbization in the Red-Vented Bulbul (*Pycnonotus cafer*) in India, pp. 269-286. In: Sridhara, S., Kumar Chakravarthy, A., Bali, G., Ramamurthi, R. (eds), *Animal Behavior in the Tropics*, pp. 450. Springer, Singapore.
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11. Laskar, B. A. and Adimalla H. 2024. Chapter 44: DNA Barcoding of Freshwater Fishes and Decapods from Eastern Ghats. In: Faunal Diversity of Eastern Ghats, India, 956-1006 p. (Published by the Director, Zoological Survey of India, Kolkata)
12. Mashi, S., Bera, S, Dam, D., Kushwaha, S. and Jahan, S. 2025. Impact of Covid-19 on fisheries and fishermen of Khejuri-II Block in Purba Medinipur District, West Bengal, India. In: Dr. Vandana Ram, (Ed.), *Abstract Book of the "3 Day's International Conference & Aqua Expo on Recent Trends in Aquaculture"* from 4<sup>th</sup> to 6<sup>th</sup> March 2025 organized by the Department of Fisheries, PSNS University, Shahdol, MP, 32pp. (ISBN Number-978-93-94351-66-0)

13. Mondal, J. and Raghunathan, C. 2025. Hemichordata. Chapter 23: 199–201. In: Raghunathan, C., Mondal, T., Balakrishnan, S. and Banerjee, D. (Eds.), *Faunal Diversity of Mudflats of East Coast of India: Wetland Ecosystem Series*, **27**: 1–270. (Published by the Director, Zoological Survey of India, Kolkata). (ISBN: 978-81-986390-2-8)
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16. Mondal, T. and Raghunathan, C. 2025. Acanthocephala. Chapter 10: 88–90. In: Raghunathan, C., Mondal, T., Balakrishnan, S. and Banerjee, D. (Eds.), *Faunal Diversity of Mudflats of East Coast of India: Wetland Ecosystem Series*, **27**: 1–270. (Published by the Director, Zoological Survey of India, Kolkata). (ISBN: 978-81-986390-2-8)
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## Abstracts

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4. Ghosh, S., Mondal, T. and Raghunathan, C. 2025. Distribution and Ecological Impact of the Invasive Alien Species *Mytilopsis sallei* (Récluz, 1849) in Indian Coastal and Marine Waters. Abstract No. **34**: 49. In: Book of Abstract on National Conference on Invasive Alien Fauna: Threats and Challenges, Organized by Zoological Survey of India, pp. 1-52.

## MEETINGS ATTENDED

1. Dr. Dhriti Banerjee, Director, ZSI, attended the 7<sup>th</sup> meeting of the National Board for Wild Life (NBWL) focused on vital discussions concerning wildlife conservation and habitat preservation, chaired by Hon'ble Prime Minister of India, Shri Narendra Modi, held in Sasan-Gir, Gujarat, where she contributed her expertise to the discussions on wildlife conservation and habitat preservation and the strategic role of ZSI in national wildlife protection initiatives on 3<sup>rd</sup> March 2025; visited Vantara, a wildlife conservation, rescue, and rehabilitation initiative in Gujarat's Jamnagar district inaugurated by the Hon'ble PM for promoting ecological sustainability and wildlife welfare on 3<sup>rd</sup> March 2025; was invited to the 124<sup>th</sup> Annual General Meeting of the Bharat Chamber of Commerce in Kolkata on 4<sup>th</sup> March 2025; was interviewed in ZSI/Hq by TV9 Bangla, a NEWS network to discuss primarily about the ongoing environmental and wildlife issues thereby also highlighting ZSI's active involvement on 6<sup>th</sup> March 2025; was invited to attend the 143<sup>rd</sup> meeting of the Governing Body of the National Council of Science Museums (NCSM) in Lucknow on 7<sup>th</sup> March 2025; was honoured as the Chief Guest at the National Conference on "Innovative and Modern Technologies for Environmental Management" in Rewa, Madhya Pradesh on the occasion of International Women's Day on 8<sup>th</sup> March 2025 and was conferred with the prestigious 'Women Leadership Award-2025' for her outstanding contributions in the field of women empowerment and Memorandum of Understanding was signed between ZSI and Awadhesh Pratap Singh University to strengthen collaboration in biodiversity research and to strengthen women in Science during this conference; attended a Short-Term Training Programme on Women Empowerment and participated in the national seminar on 'Women Empowerment in India' on 8<sup>th</sup> March and received the 'SLS Life Time Achievement Award' by the Society of Life Sciences, for her outstanding academic contribution and achievement in the field of Women Empowerment and Leadership; was invited to attend the celebration of International Women's Day at Vigyan Bhawan, New Delhi on 8<sup>th</sup> March 2025; chaired the 4<sup>th</sup> meeting of the new research proposal scrutiny committee for the Annual Programme of Research 2025-26 at ZSI Headquarters on 10<sup>th</sup> March 2025 for assessing the upcoming research

proposals in ZSI; was conferred with the 'Shree Shakti Samman' award by the Society of Biological Sciences and Rural Development, Prayagraj (U.P.) for her distinguished academic achievements and remarkable contributions to women empowerment, specifically in the fields of science and biodiversity at the National Seminar on Women Entrepreneurship in India and Nari Samman Samaroh – 2025 on 11<sup>th</sup> March 2025; delivered the inaugural address at the 'Training on Special Campaign & E-Auction' by Stores Section, ZSI/Hq, Kolkata, where Shri Surya Kant, GM, MSTC and Shri Vikash Jaiswal, Deputy GM, MSTC were present, on 13<sup>th</sup> March 2025 and released two books, viz "Standard Operating Procedure – Disposal of Surplus and Obsolete Items" and "Disposal of Scrap/E-Waste"; held a strategic discussion with the scientist(s) from ZSI/Hq and Regional Centre(s) about the Climate & Biodiversity Information Platform (CBIP) Proposal, permanent monitoring plot & IUCN vision 2030 document on 13<sup>th</sup> March 2025; was invited to the State Board for Wildlife (SBWL) meeting in Tripura chaired by the Hon'ble Chief Minister of Tripura on 12<sup>th</sup> March 2025; was invited as the Chief Guest at the National Conference on Interdisciplinary approaches for conservation of marine fauna with special reference to India Horseshoe Crabs by Fakir Mohan University on 12<sup>th</sup> and 13<sup>th</sup> March 2025; was invited as the Guest of Honour for the International Women's Day celebration at the Asiatic Society in Kolkata, a testament to her influence as a leading advocate for women in STEM on 15<sup>th</sup> March 2025; was invited to a program on 'Matri Sammanona Utsav' and cancer awareness camp in Howrah (W.B.) on 16<sup>th</sup> March 2025; was invited to discuss about the Climate & Biodiversity Information Platform (CBIP) proposal in the MoEF&CC on 17<sup>th</sup> March 2025; was invited for the 35<sup>th</sup> Annual General Meeting of the Society of National Council of Science Museums (NCSM) at National Science Centre, Delhi and the National Workshop on India's National Adaptation Plan (NAP) on 18<sup>th</sup> March at Bharat Mandapam; was invited to attend the opening session of the symposium on 'India@2047: Building a Climate-Resilient Future' by MoEF&CC in collaboration with the Lakshmi Mittal and Family South Asia Institute (Harvard University) and the Salata Institute for Climate and Sustainability, (Harvard University) at Bharat Mandapam on 19<sup>th</sup> March 2025; attended a series of important meetings related to the Progress Monitoring Committee to ensure the highest standard of research productivity on 20<sup>th</sup>, 21<sup>st</sup>, 24<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup> March 2025; was invited to a workshop on 'Forest-based livelihood opportunities for Tribal Communities,' organized

by the Department of Forest & Climate Change, Chhattisgarh, in collaboration with NITI Aayog on 28<sup>th</sup> March 2025.

2. Dr. C. Raghunathan, Scientist-F, ZSI/HQ, Kolkata, submitted the First Interim Report on 'EIA studies for Varsoa-Bandra Sea Link, Maharashtra' to MSRDC. Mumbai on 1<sup>st</sup> March 2025; participated in National Board for Wild Life meeting held on 3<sup>rd</sup> March 2025 at Gir National Park, Gujarat; attended meeting for Development of Climate and Biodiversity Information Platform held at MoEFCC, New Delhi on 17<sup>th</sup> March 2025; attended meeting with CCU at ZSI APRC, Itanagar on 17<sup>th</sup> and 18<sup>th</sup> March 2025 to inspect the progress of construction of Eastern Himalayan Faunal Repository; convened a survey to Dwarka coast, Gujarat to conduct EIA study for M/s. Sun Petro Chemicals Ltd. from 17<sup>th</sup> to 24<sup>th</sup> March 2025; served as a member in the assessment committee for progress assessment of Assistant Zoologists and Senior Zoological Assistants of ZSI held on 19<sup>th</sup>, 20<sup>th</sup> to 22<sup>nd</sup> March 2025; served as a Chairperson for the progress assessment committee meeting held on 24<sup>th</sup> March 2025 to assess the progress of JRF, SRF and PDF at ZSI Headquarters; provided the inputs for Rajya Sabha Starred Question Dy. No. 7174 regarding Critically Endangered Species on 24<sup>th</sup> March 2024; provided inputs for Rajya Sabha USQ No.3081 on Establishment of bio bank in Padmaja Naidu Himalayan Zoological Park on 24<sup>th</sup> March 2024; convened the National Conference on Invasive Alien Species: Threats and Challenges on 25<sup>th</sup> and 26<sup>th</sup> March 2025 at Kolkata organized by ZSI; delivered a brief lecture on Status of Invasive Species in the National Conference on Invasive Alien Species: Threats and Challenges on 25<sup>th</sup> and 26<sup>th</sup> March 2025 at Kolkata organized by ZSI; served as a Member in the progress monitoring committee meeting for ZSI Scientists held from 27<sup>th</sup> to 30<sup>th</sup> March 2025; provided the inputs for draft note for Cabinet Committee on Economic Affairs (CCEA) in respect of "Prime Minister Dhan-Dhaanya Krishi Yojana" and submitted to the Ministry; prepared the Vision Framework for ZSI for 2025-2026 aligning with Vision@2047 to the Ministry.
3. Dr. Gaurav Sharma, Scientist-F, ZSI/NRC, Dehradun, attended meeting with Shri Sakesh Prasad Singh, Chief Controller of Account, MoEF&CC (Gol), New Delhi and his Team during Internal Audit of ZSI, NRC, Dehradun held in the Board Room of ZSI, NRC, Dehradun on 10<sup>th</sup> March, 2025.
4. Dr. K.A. Subramanian, Scientist- F, ZSI/SRC, Chennai, attended a meeting on Climate Change and

- Biodiversity Information Portal at MoEF&CC, New Delhi on 17<sup>th</sup> March 2025; attended a meeting on India Pavilion at the World Expo 2025 in Osaka, Japan, convened by MoEF&CC on 18<sup>th</sup> March 2025; attended India@2047, Building Climate Resilient Future meeting at Bharat Mandapam on 19<sup>th</sup> March 2025.
5. Dr. C. Sivaperuman, Scientist-F, ZSI/ANRC, Sri Vijaya Puram, attended meeting with the DIG Forests, RT Division, MoEF&CC, in connection with development of online modules in the iGOT Karmayogi portal for the Compulsory IFS training course for the year 2025-2026 on 4<sup>th</sup>, 7<sup>th</sup>, 10<sup>th</sup>, 11<sup>th</sup>, 17<sup>th</sup>, 21<sup>st</sup>, 24<sup>th</sup>, 27<sup>th</sup> and 28<sup>th</sup> March 2025; attended meeting under the Chairmanship Chief Secretary, A & N Administration in connection with the Great Nicobar Island developmental projects on 5<sup>th</sup> and 6<sup>th</sup> March 2025; attended the executive committee meeting of the Andaman Science Association at ICAR-Central Island Agricultural Research Institute on 13<sup>th</sup> March 2025; attended the Board of Studies meeting for the proposed diploma course on Biodiversity and Animal Taxonomy at Department of Ecology and Environmental studies, Pondicherry University on 19<sup>th</sup> March 2025; attended the meeting with Vice Chancellor, Pondicherry University, Puducherry on 19<sup>th</sup> March 2025; attended the Tourism Stakeholder meeting organised by Association of Andaman Tour Operators (AATO), and India Tourism as a special guests on 26<sup>th</sup> March 2025; attended the inaugural function Workshop "Harnessing the Potential of Agro-eco-tourism in the Andaman and Nicobar Islands as a chief guest jointly organised by ICAR-CIARI, and Andaman Science Association on 26<sup>th</sup> March 2025.
  6. Dr. V.D. Hegde, Scientist-F, ZSI/WGRC, Kozhikode, along with Dr. P. Girish Kumar, Scientist-D; attended a meeting with CPWD, EE (electrical) and JE (Electrical) on 17<sup>th</sup> March 2025 regarding the conversion of HT and LT at WGRC, ZSI, Kozhikode; attended an online meeting on 27<sup>th</sup> March 2025 relating to IUCN Red listing of Indian fauna- Vision 2030.
  7. Dr. G. Srinivasan, Scientist-F, ZSI/APRC, Itanagar, along with Dr. S.D Gurumayum, Scientist- E, attended the celebration of International Women's Day on 8<sup>th</sup> March 2025 under the theme "*March Forward and Run for Marbled Cat*" jointly organized by Arunachal Pradesh Regional Centre, Itanagar and the Eastern Himalayas Marbled Cat Project & Clouded Leopard Working Group.
  8. Dr. Bikramjit Sinha, Scientist-E, ZSI/NERC, Shillong, attended the 3<sup>rd</sup> meeting of the expert committee on identification and conservation of biodiversity rich areas and Biodiversity Heritage Sites of the Meghalaya Biodiversity Board on 7<sup>th</sup> March 2025 and provided inputs on the proposal for the creation of BHS at Mawpynthymmai, East Khasi Hills and Mawteng, Ri-Bhoi, Meghalaya.
  9. Dr. Souvik Sen, Scientist-E, ZSI/HQ, Kolkata, attended a meeting on the 'Development of Climate & Biodiversity Information Platform (CBIP)', held at MoEFCC, New Delhi on 17<sup>th</sup> March 2025.
  10. Dr. S.D Gurumayum, Scientist- E, ZSI/APRC, Itanagar, attended a meeting at PCCF office, Itanagar to finalized CCA guidelines along with WWF, India experts on 10<sup>th</sup> March 2025; attended the release of the '*Arunachal Pradesh State Biodiversity Strategy and Action: A People's Plan*' by the CM of Arunachal Pradesh, Shri. Pema Khandu on 13<sup>th</sup> March 2025; attended as a Member Advisory committee of National conference on '*Trends and transcend in Zoological sciences*' organized by Department of Zoology, School of Life Sciences, St. Joseph's University, Bengaluru on 17<sup>th</sup> and 18<sup>th</sup> March 2025; attended a meeting with SE, CCU, New Delhi; Add Director, ZSI; EEs (Civil & Electrical), CPWD, Itanagar regarding construction of EHFR building at ZSI Itanagar on 17<sup>th</sup> March 2025 along with the other scientists of the centre; attended as special guest on the inaugural program of three days training programme on '*Ecological Niche Modeling: Techniques and Applications for Biodiversity*' organized by NERC of G.B. Pant National Institute of Himalayan Environment (NIHE) on 19<sup>th</sup> March 2025; attended a joint meeting of the State level Environment Impact Assessment Authority (SEIAA) and State level Expert Appraisal Committee (SEAC) on 24<sup>th</sup> March 2024 at PCCF Conference Hall Itanagar; attended '*calling on the dignitaries of the state*' including HCM, DCM, HM, and Advisors on 25<sup>th</sup> March 2025 at PCCF office Itanagar.
  11. Dr. S. Balakrishnan, Scientist - E, ZSI/MARC, Digha, attended an Online discussion meeting about budget and expenditure for the FY 24-25 and 25-26, organized by ZSI, Hqs., Kolkata on 25<sup>th</sup> March 2025; attended an online discussion meeting IUCN Red Listing of Indian Fauna: Vision 2030, organized by ZSI, Hqs., Kolkata on 27<sup>th</sup> March 2025.
  12. Dr. P. S. Bhatnagar, Scientist - E, ZSI/CZRC, Jabalpur, attended Madhya Pradesh State Biodiversity meeting

- on 13<sup>th</sup> March 2025 at Bhopal, Madhya Pradesh in presence of Honourable Chief Minister Madhya Pradesh Sh. Mohan Yadav; attended a One Day Workshop on Forest Based Livelihood opportunities for Tribal Communities on 28<sup>th</sup> March 2025 at Raipur, Chhattisgarh in presence of Honourable Chief Minister Chattisgarh Sh. Vushnu Deo Sai and officials from Niti Aayog.
13. Dr. Tamal Mondal, Scientist- D, ZSI/HQ, Kolkata, attended a meeting related to IUCN National Red Listing and Establishment of 10 Permanent Long-Term Monitoring Plots on 13<sup>th</sup> March 2025; provided replies on various Rajya Sabha and Lok Sabha questions as and when required; provided Inputs on draft note for Cabinet Committee on Economic Affairs (CCEA) in respect of "Prime Minister Dhan-Dhaanya Krishi Yojana".
  14. Dr. P.C. Tudu, Scientist - D, ZSI/MARC, Digha, attended a meeting on "Awareness Program and Distribution of Implements to SC Beneficiaries for Livelihood Enhancement," organized under the externally funded project "National Innovations on Climate Resilient Agriculture (NICRA)" on 19<sup>th</sup> March 2025; attended a meeting on "Awareness program and distribution of implement to SC beneficiaries for livelihood enhancement" under the project "Scheduled Caste Sub Plan (SCSP)," Digha Regional Station, ICAR-CMFRI, Digha, West Bengal on 27<sup>th</sup> March 2025.
  15. Dr. Temjenmongla, Scientist- D, ZSI/APRC, Itanagar, attended a virtual meeting with ZSI, HQ, Kolkata, regarding budget & expenditure on 25<sup>th</sup> March 2025.
  16. Dr. Atanu Naskar, Scientist- C, ZSI/HQ, Kolkata, attended the 7<sup>th</sup> meeting of National Board for Wildlife at Sasan-Gir, Gujrat and to make arrangement for 21<sup>st</sup> RAMC of ZSI at Ranthambore, Rajasthan on 3<sup>rd</sup> March 2025.
  17. Dr. Sandeep Kushwaha, Scientist - C, ZSI/CZRC, Jabalpur, attended Expert lecture of Dr Dhriti Banerjee, Director ZSI at National Conference on Innovative and Morden technologies for Environmental Management Organised by Department of Environment Biology APSU, Rewa, Madhya Pradesh in association with Mahakaushal Vigyan Parishad, ZSI, NASI and SLS on 07<sup>th</sup> and 08<sup>th</sup> March, 2025; attended a meeting with Dr. Deepa Jaiswal, O/c Fresh Water Biology Centre, Hyderabad on 25<sup>th</sup> March 2025; attended a meeting with Mrs. Jennifer Lyngdoh O/c North Eastern Regional Centre, Shillong.

## TRAININGS ORGANIZED

1. Zoological Survey of India, Kolkata, organized two-days National Conference on Invasive Alien Fauna: Threat and Challenges on 25<sup>th</sup> and 26<sup>th</sup> March 2025 at Hotel Hindustan International, Kolkata. Dr. C. R. Babu, Professor Emeritus, University of Delhi, graced the conference as the Chief Guest and Dr. A.A. Mao, Director, Botanical Survey of India, honoured the event as the Guest of Honour. A total of 150 participants attended the National Conference. A comprehensive recommendation was prepared as the outcome of the conference.
2. ZSI/APRC, Itanagar, Conducted a 'Pilot Capacity Building Programme for BMCs of Arunachal Pradesh' in collaboration with EIACP Centre on Biodiversity (Fauna), ZSI, Kolkata, and Arunachal Pradesh Biodiversity Board (APBB) on 5<sup>th</sup> to 7<sup>th</sup> March 2025.
3. ZSI/MARC, Digha, organized a one-day training and workshop on "Marine Fauna Collection, Preservation, Identification Techniques, and Biodiversity Conservation in the Digha and Adjacent Areas" for the participants from students and faculty members of Pentecostal Bokaro School on 18<sup>th</sup> March 2025.
4. ZSI/ANRC, Sri Vijaya Puram, Organized one day workshop as a part of celebration of International Women's Day 2025 on 8<sup>th</sup> March in collaboration with Andaman Tour Operators (AATO); organised online drawing competition for the students, teachers and research scholars as a part of celebration of International Day of Forests from 10<sup>th</sup> to 17<sup>th</sup> March 2025; organised one day workshop on Island Ecosystem: Forests, Wildlife & Agroforestry, as a part of celebration of International Day of Forests on 21<sup>st</sup> March 2025.
5. ZSI/WRC, Pune, organized a one-day workshop on "Methods in Collection, Preservation and Identification of Fauna" in collaboration with Shri Shivaji Science College, Amravati, at the centre on 21<sup>st</sup> March 2025 where forty four BSc and MSc students had participated.
6. भारतीय प्राणी सर्वेक्षण, पच्छिमी प्रादेशिक केंद्र, पुणे द्वारा "कार्यस्थल पर यौन उत्पीड़न अधिकार और कानूनी विकल्प" विषय पर 19<sup>th</sup> March 2025 को एक दिवसीय कार्यशाला का आयोजन किया गया। कार्यशाला में श्रीमती स्मिता चौगले, अतिरिक्त लोक अभियोजक, सत्र न्यायालय पुणे द्वारा यौन उत्पीड़न और उससे सम्बंधित कानूनी सहायता के बारे में व्याख्यान दिया गया।

7. ZSI/CZRC, Jabalpur, organized Five-days Workshop with Vikram University Ujjain under the MOU program from 28<sup>th</sup> February to 05<sup>th</sup> March 2025, organised by Vikram University Ujjain (M.P.) & Central Zone Regional Centre, Zoological Survey of India, Jabalpur (M.P.); organized One-day training program in Fossil Site Identification and Collection in Dhar District with Geology Department Vikram University Ujjain on 01<sup>st</sup> March 2025; organized a workshop on Wildlife Conservation Finance Investing in people and Planet at Vikram University, Ujjain (M.P.) on 03<sup>rd</sup> March 2025.
8. ZSI/SRC, Chennai in collaboration with Kondunadu Arts and Science College, organized two-day national symposium titled *"The Western Ghats: Biodiversity Conservation and Ecosystem Management"* on 6<sup>th</sup> and 7<sup>th</sup> of March 2025 at Kongunadu Arts and Science College, Coimbatore.

## TRAININGS ATTENDED

1. Dr. Gaurav Sharma, Scientist-F, ZSI/NRC, Dehradun, participated in the "Three days Training Programme for Biodiversity Management Committee's (BMC's) of the Tribal Areas of Uttarakhand" organized by the Botanical Survey of India, NRC, Dehradun and Uttarakhand Biodiversity Board (UBB), Dehradun from 06<sup>th</sup> to 08<sup>th</sup> March, 2025; participated in the "Seminar on Accelerate Action- A Firm step towards Viksit Bharat" organized for celebration of "International Women's Week" jointly by Anthropological Survey of India, Uttarakhand Science, Education and Research Centre (Govt. of Uttarakhand) and ZSI, NRC, Dehradun held at conference hall of AnSI, NRC, Dehradun and felicitated Women working in different organizations, about 80 Women, Faculties & Girl Students from different Colleges and Universities of Dehradun participated; participated along with Mr. M.K. Meena, Scientist-B in the "International Conference on Biotech Frontiers 2025: Emerging Trends in Biotechnology & Microbiome Research" held at Shri Guru Ram Rai University, Dehradun, Uttarakhand on 21<sup>st</sup> and 22<sup>nd</sup> March, 2025; participated along with M.K. Meena, Scientist-B, Mr. Yogender, Sr. Zool. Asstt., Mrs. Jyoti Verma, Sr. Zool. Asstt. and Mrs. Purbita Roy Sharma, Sr. Zool. Asstt. in the "Seminar on Recent Trends in Environmental Monitoring for Maintaining Forest Health Amidst Climate Change Challenges" organized by the Forest Ecology and Climate Change (FE&CC) Division, ICFRE- Forest Research Institute (FRI), Dehradun held at the Board Room, FRI Main Building, Dehradun on 24<sup>th</sup> March, 2025.
2. Dr. K.A. Subramanian, Scientist- F, ZSI/SRC, Chennai, and Dr. R. Babu, Scientist- E, participated in the National Symposium on the Western Ghats: Biodiversity conservation and Ecosystem Management (WGBCEM-2025) from 6<sup>th</sup> to 7<sup>th</sup> March 2025 organized by PG & Research Department of Zoology and Wildlife Biology in Association with Zoological Survey of India, Kolkata at Kongunadu Arts & Science College (Autonomus), Coimbatore- 541029 Tamil Nadu, India.
3. Dr. Basudev Tripathy, Scientist -E, ZSI/WRC, Pune, participated in the National Workshop on *"Wildlife Management"* at New Delhi on 22<sup>nd</sup> March 2025.
4. Dr. Navneet Singh, Scientist- E, ZSI/HQ, Kolkata, along with Dr. Rahul Joshi, Scientist- D, Mr. S.K. Shah, Asst. Zoologist and Mr. P. Mishra, Asst. Zoologist attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025.
5. Dr. V.D. Hegde, Scientist-F, ZSI/WGRC, Kozhikode, along with Dr. P. Girish Kumar, Scientist-D, attended a National Symposium on *'The Western Ghats: Biodiversity Conservation and Ecosystem Management'* on 6<sup>th</sup> and 7<sup>th</sup> March 2025 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu
18. Dr. A.S. Kalawate, Scientist -E, ZSI/WRC, Pune, participated in a National Conference on the occasion of International Women's Day at New Delhi on 8<sup>th</sup> March 2025.
6. Dr. Souvik Sen, Scientist-E, ZSI/HQ Kolkata attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025.
7. Dr. D. S. Chand, Scientist-E, ZSI/HQ, Kolkata attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025.
8. Dr. K. Valarmathi, Scientist-E, ZSI/HQ, Kolkata, along with Mr. S. Mitra, Asst. Zoologist attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025.
9. Dr. T. Kubendran, Scientist-D along with Dr. Suranjana Banerjee, Assistant Zoologist attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025.

10. Dr. Rahul Joshi, Scientist- D, ZSI/HQ, Kolkata participated in Rajbhasa Karyashala on 23<sup>rd</sup> March, 2025 at NERC, ZSI, Shillong.
11. Dr. Tamal Mondal, Scientist-D, ZSI/HQ, Kolkata, along with the officers and staff of the Mollusca section attended two days National Conference on "Invasive Alien Fauna: Threats & Challenges" on 25<sup>th</sup> and 26<sup>th</sup> March 2025 at Hotel Hindustan International, Kolkata organized by ZSI, Kolkata.
12. Dr. Atanu Naskar, Scientist-C, ZSI/HQ, Kolkata, participated in the National Conference on "Innovation and Modern Technologies for Environment Management" at Awadesh Pratap Singh University Rewa, MP from 7<sup>th</sup> to 9<sup>th</sup> March 2025; attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025.
13. Dr. Aditya Kapil Valiveti, Scientist - C, ZSI/MARC, Digha, participated in CLU in an online training program entitled "ITRC Microplastic" organized by Interstate Technology and Regulatory Council, Washington, USA, on 06<sup>th</sup> March 2025; attended a training programme on "Microplastic in the environment and human exposure pathways" conducted by National Academies of Science Engineering Medicine on 20<sup>th</sup> March 2025; participated CLU in an online training program entitled "Micro-nanoparticles: the marine environment" organized by UNITAR on 28<sup>th</sup> March 2025.
14. Dr. Jayita Sengupta, Scientist- B, ZSI/HQ, Kolkata, attended a two days National Conference on "Invasive Alien Fauna: Threats & Challenges" organized at Hotel Hindustan International, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March 2025; attended a meeting about Assessment of Aquatic Biodiversity in Sundarbans under WB-FBCCCR Project on 24<sup>th</sup> March 2025 at Mini Conference hall, Office of Chief Project Director, Project for Forest and Biodiversity Conservation for Climate Change Response in West Bengal, Block-B2, Sector-III, Salt lake City, Kolkata-700106 as deputed by Director, Zoological Survey of India.
15. Mr. S.K. Shah, Asst. Zoologist, ZSI/HQ, Kolkata, participated in a One-Day Workshop on "Wild Encounters: The Art and Ethics of Wildlife Photography" jointly organised by Nature Mates and RKVC at 4<sup>th</sup> Floor Maa Sarda Devi Hall, Annex Building, RKVC, Rahara, West Bengal on 29<sup>th</sup> March 2025.
16. Mrs. Anindita Ghosh, Asstt. Zoologist, ZSI/HQ, Kolkata, organized and participated in the 'National Conference on Invasive Alien Fauna: Threats & Challenges' organised by Zoological Survey of India, Kolkata on 25<sup>th</sup> and 26<sup>th</sup> March, 2025.
17. Mr. Yomto Mayi, SPF, ZSI/APRC, Itanagar, attended three days training programme on "Ecological Niche Modeling" organized by G.B. Pant National Institute for Himalayan environment from 19<sup>th</sup> to 21<sup>st</sup> March 2025.
18. All Scientists and scientific staffs of ZSI/APRC, Itanagar, attended 'Pilot Capacity Building Programme for BMCs of Arunachal Pradesh' from 5<sup>th</sup> to 7<sup>th</sup> March 2025 organized by Arunachal Pradesh Regional Centre (APRC), ZSI, Itanagar Along with EIACP Centre on Biodiversity (Fauna), ZSI, Kolkata in collaboration with Arunachal Pradesh Biodiversity Board (APBB), Itanagar.

## LECTURES DELIVERED

1. Dr. C. Sivaperuman, Scientist-F, ZSI/ANRC, Sri Vijaya Puram, delivered a talk on "Andaman Diversity and Ecosystem services" in the one-day workshop on "Island Ecosystem: Forests, Wildlife & Agroforestry, as a part of celebration of International Day of Forests on 21<sup>st</sup> March 2025.
2. Dr. Gaurav Sharma, Scientist-F, ZSI/NRC, Dehradun, delivered invited lecture on topic entitled "Status of Faunal Diversity and their Conservation in India" in the three days "Training Programme for Biodiversity Management Committee's (BMC's) of the Tribal Areas of Uttarakhand" organized by the Botanical Survey of India, NRC, Dehradun and Uttarakhand Biodiversity Board (UBB), Dehradun on 6<sup>th</sup> March, 2025; delivered invited Chief Guest address on topic entitled "Status of Faunal Diversity and their Conservation in India" to participants and delegates of "International Conference on Biotech Frontiers 2025: Emerging trends in Biotechnology & Microbiome Research" held at the Conference Hall of Shri Guru Ram Rai University, Dehradun, Uttarakhand on 21<sup>st</sup> March, 2025.
3. Dr. K.A. Subramanian, Scientist- F, ZSI/SRC, Chennai, delivered a lecture on "Insect diversity and Conservation" at the department of Zoology, Vivekananda College, Chennai on 3<sup>rd</sup> March 2025; delivered a lecture on "Aquatic Insect Diversity and Conservation" at Kongunadu Arts and Science College, Coimbatore on 6<sup>th</sup> March 2025.



4. Dr. V.D. Hegde, Scientist-F, ZSI/WGRC, Kozhikode, delivered a lecture in National Symposium at Kongunadu Arts and Science College Coimbatore, Tamil Nadu on 6<sup>th</sup> March 2025; delivered a lecture in National Workshop at Mangalore University, Mangalagangothri, Mangalore, Karnataka on 21<sup>st</sup> March 2025.
5. Dr. Avtar Kaur Sidhu, Scientist-F, ZSI/HARC, Solan, delivered a lecture on women empowerment: need of the day to 50, for the PG students (50) & teachers of the Dev Samaj College for Women, Ferozepur City, Ferozepur, Punjab on 12<sup>th</sup> March 2025; delivered an invited talk on topic, "Conserving Butterflies in Urban Landscape" on 20<sup>th</sup> March 2025 in National Seminar on Environment and Biodiversity: Issues & Challenges organised by Department of Biosciences Himachal Pradesh University, Shimla from 20<sup>th</sup> to 21<sup>st</sup> March 2025.
6. Dr. S.D Gurumayum, Scientist- E, ZSI/APRC Itanagar delivered a lecture on Faunal diversity of Arunachal Pradesh at the 'Pilot Capacity Building Programme for BMCs of Arunachal Pradesh' on 5<sup>th</sup> March 2025 organised by EIACP Centre on Biodiversity (Fauna), ZSI, Kolkata and Arunachal Pradesh Regional Centre (APRC), ZSI, Itanagar in collaboration with Arunachal Pradesh Biodiversity Board (APBB), Itanagar; delivered a talk on 'Current status of Animal Diversity in Arunachal Pradesh' on 20<sup>th</sup> March 2025 at 'Ecological Niche Modeling; Techniques and Applications for Biodiversity' organized by NERC of G.B. Pant National Institute of Himalayan Environment (NIHE).
7. Dr. Anil Kumar, Scientist-E, ZSI/GPRC, Patna, delivered a guest lecture titled "Impact of Climate Change on Birds" on 25<sup>th</sup> March 2025 during the workshop "SDG-13 and Youth: Climate Action for a Sustainable Future," held from 25<sup>th</sup> to 26<sup>th</sup> March 2025 at the Science Centre, Patna, organized by Vishwa Yuvak Kendra, New Delhi in collaboration with Prem Youth Foundation, Patna.
8. Dr. K.P. Dinesh, Scientist -E, ZSI/WRC, Pune, delivered a lecture on "Amphibian Diversity in the Western Ghats and their Conservation Status" in the National Symposium on the "Biodiversity and Conservation of Western Ghats" at Kongunadu Arts and Science College, Coimbatore on 6<sup>th</sup> to 7<sup>th</sup> March 2025.
9. Dr. M. E. Hassan, Scientist-E, ZSI/GPRC, Patna, delivered an invited lecture on "Effect of Climate Change on Insects" on 24<sup>th</sup> March 2025 at Shrikrishna Vigyan Kendra, Patna, organized by Vishwa Yuvak Kendra, New Delhi, in collaboration with Prem Youth Foundation.
10. Dr. S. Balakrishnan, Scientist - E, ZSI/MARC, Digha, delivered an online lecture on "Biodiversity Conservation of Coastal and Marine Fauna of India: Biomedical, Biotechnology and their Prospects" during 2 days ANRF (formerly SERB) - DST Sponsored "National Conference on Recent Innovation in Drug from Sea and Conservation of Marine Bioresources" on 27<sup>th</sup> March 2025, organized by PG & Research Department of Zoology, V.O. Chidambaram College, Thoothukudi - 628 008, Tamil Nadu, India.
11. Dr. P. S. Bhatnagar, Scientist - E, ZSI/CZRC, Jabalpur, delivered a lecture on Musicology in Five days' Workshop with Vikram University Ujjain under the MOU program from 28<sup>th</sup> February to 05<sup>th</sup> March 2025, organised by Vikram University Ujjain (M.P.) & Central Zone Regional Centre, Zoological Survey of India, Jabalpur (M.P.); delivered a lecture on Fossil Site Identification and Collection in One-day training program in Fossil Site Identification and Collection in Dhar District with Geology Department Vikram University Ujjain on 01<sup>st</sup> March 2025.
12. Dr. Anil Mohapatra, Scientist-E, ZSI/EBRC, Gopalpur, presented an invited talk on "Describing new species (With special reference to marine fish): Discovery, Challenges" in the international Conference on "Green Alternatives and Biological Sustainability" Organised by Department of Biological Science and IQAC, Govt. Science College, Chhatrapur, Ganjam, Odisha on 6<sup>th</sup> March 2025; delivered an invited talk on "Marine Mammals and reptile fauna of Odisha and its conservation" in the Capacity building workshop on Dolphin & Olive Ridley Turtle Awareness programme at Turtle interpretation centre, Purunabandha, Ganjam, Odisha, Organised by Berhampur Forest Division on 11<sup>th</sup> March 2025; presented an invited talk on "Marine Mammals and reptile fauna of Odisha and its conservation" in the Capacity building workshop on Dolphin & Olive Ridley Turtle Awareness programme at WRTC, CDA, Odisha, Organised by Chilika Wildlife Division on 13<sup>th</sup> March 2025; delivered an invited talk on "Art of Taxidermy" in the Workshop on Museum techniques: Curation & Preservation in Natural History Museums, Organised by RNMNH, Bhubaneswar on 20<sup>th</sup> March 2025.
13. Dr N Marimuthu, Scientist- E, ZSI/HQ, Kolkata, delivered a Keynote address entitled "Systematics of Scleractinian fauna: Validation through multivariate analyses", in MoES sponsored Two days National level Conference on Marine Ecosystem: Challenges, Conservation and Sustainable Development" at Arulmigu Palaniandavar Arts College for Women

- (Mother Teresa Women's University), Palani on 20<sup>th</sup> March 2025.
14. Dr. S. D. Paunikar, Scientist-E, ZSI/CZRC, Jabalpur, delivered Lecture on "Collection, preservation and Identification and diversity of Pisces" to MSc 4<sup>th</sup> year students from Govt. Home Science College, Jabalpur on 21<sup>st</sup> March 2025.
  15. Dr P. C. Pathania, Scientist-E, ZSI/HARC, Solan, delivered invited talk on the topic "Insect diversity and their Economic importance" for the PG students (50) & teachers of the Dev Samaj College for Women, Ferozepur City, Ferozepur, Punjab organised on dated 12<sup>th</sup> March 2025; delivered an Invited talk on the topic "Environmental Issues and Challenges Threatening Lepidoptera Diversity" at the National Seminar on "Environment and Biodiversity: Issues & Challenges" at Department of Biosciences, H P University, Shimla, HP on 21<sup>st</sup> March 2025.
  16. Dr. P.C. Tudu, Scientist - D, ZSI/MARC, Digha, delivered a lecture on "Marine faunal diversity of Digha coasts and their importance" one-day "Training cum workshop on marine fauna collection, preservation, identification techniques, and biodiversity conservation in the Digha and adjacent areas," organized by ZSI, MARC, Digha on 18<sup>th</sup> March 2025; delivered a lecture on "Marine aquarium fauna," to Trainee fishery officers of different state, under Central Institute of Fisheries Education (CIFE), Kolkata on 21<sup>st</sup> March 2025; delivered a lecture on "Faunal diversity of marine aquarium and marine museum," at Ishwarchandra Vidyassagar Educational and Social Trust (IVEST), Kolkata on 23<sup>rd</sup> March 2025.
  17. Dr. Temjenmongla, Scientist- D, ZSI/APRC, Itanagar, presented a brief talk on "*Millipedes from Arunachal Pradesh, India*" at the "*Myriapod Meet-up*" an online event, hosted by The Marek Lab at Virginia Tech, USA, on 25<sup>th</sup> March 2025.
  18. Dr. P. Girish Kumar, Scientist-D, ZSI/WGRC, Kozhikode, delivered a talk on '*An overview of Hymenoptera of the Western Ghats*' at National Symposium on '*The Western Ghats: Biodiversity Conservation and Ecosystem Management*' on 7<sup>th</sup> March 2025 at Kongunadu Arts and Science College, Coimbatore, Tamil Nadu.
  19. Dr. Sandeep Kushwaha, Scientist - C, ZSI/CZRC, Jabalpur, delivered a lecture on Musicology in Five-days Workshop with Vikram University Ujjain under the MOU program from 28<sup>th</sup> February to 05<sup>th</sup> March 2025 organised by Vikram University Ujjain (M.P.) & Central Zone Regional Centre, Zoological Survey of India, Jabalpur (M.P.); delivered a lecture on Fossil Site Identification and Collection in One-day training program in Fossil Site Identification and Collection in Dhar District with Geology Department Vikram University Ujjain on 01<sup>st</sup> March 2025; delivered a lecture on Role of women empowerment in Modern technologies & management in National Conference on Innovative and Modern technologies for Environmental Management organised by Department of Environment Biology, APSU, Rewa, Madhya Pradesh in association with Mahakaushal Vigyan Parishad, ZSI, NASI and SLS on 7<sup>th</sup> and 8<sup>th</sup> March, 2025.
  20. Ms Debashree Dam, Scientist C, ZSI/HQ, Kolkata, delivered a lecture on 'Role of Women in Environment Conservation' on 15<sup>th</sup> March 2025 at Kanpur Village, Howrah, West Bengal as part of Women's Day Celebration and Basant Utsav, organised by Kanpur Seba Sangha.
  21. Dr. Aditya Kapil Valiveti, Scientist - C (Chemi.), ZSI/MARC, Digha, delivered a lecture on "Role of water quality in aquarium fish management, and Effects of pollution on marine biodiversity" during one-day "Training cum workshop on marine fauna collection, preservation, identification techniques, and biodiversity conservation in the Digha and adjacent areas," organized by ZSI, MARC, Digha on 18<sup>th</sup> March 2025; delivered a lecture on "Marine aquarium and its importance in marine conservation and education" organized by ZSI, MARC, Digha on 21<sup>st</sup> March 2025.
  22. Dr. Dola Roy, Scientist - B, ZSI/HQ, Kolkata, delivered a lecture as invited keynote speaker in National Conference at Fakir Mohan University on 8<sup>th</sup> and 9<sup>th</sup> March 2025; delivered special invited lecture at Department of Zoology, Bhairab Ganguly College, WBSU on 11<sup>th</sup> March 2025.
  23. Dr. Jayita Sengupta, Scientist- B, ZSI/HQ Kolkata delivered a lecture as an invited guest speaker in an international seminar, titled "From Micro to Macro: Understanding Life from Molecular Interactions to Ecosystem Dynamics" at Vidyasagar College, organized by the Department of Zoology on 7<sup>th</sup> March 2025.
  24. Scientists of ZSI/WRC Pune delivered lectures on "*Methods in Collection, Preservation and Identification of Fauna*" as a part of one day workshop organized by Zoological Survey of India, Western Regional Centre, Pune in collaboration with Shri Shivaji Science College, Amravati, on 21<sup>st</sup> March 2025.

## PHOTO GALLERY



Director, Dr. Dhriti Banerjee with the prime Minister of India, Sri. Narendra Modi on 3<sup>rd</sup> March, 2025 during 7<sup>th</sup> Meeting of National Board for Wild Life at Sinh Sadan Campus, Sasan Gir, Gujarat



Visit to Vantara



Director, Dr. Dhriti Banerjee had attended a Short-Term Training Programme on Women Empowerment at Awadhesh Pratap Singh University in Rewa, Madhya Pradesh.



Director, Zoological Survey of India (ZSI) participated as Chief Guest in the National Conference on 'Innovative and Modern Technologies for Environmental Management' held at Awadhesh Pratap Singh University in Rewa, Madhya Pradesh).



Dr. Dhriti Banerjee was conferred with the 'Shree Shakti Samman' award by the Society of Biological Sciences and Rural Development, Prayagraj (U.P.) for her distinguished academic achievements and remarkable contributions to women empowerment, specifically in the fields of science and biodiversity.



Dr. Dhriti Banerjee received the 'SLS Life Time Achievement Award' by the Society of Life Sciences, for her outstanding academic contribution and achievement in the field of Women Empowerment and Leadership



Dr. Dhriti Banerjee was conferred with the prestigious 'Women Leadership Award-2025' for her outstanding contributions in the field of women empowerment.

# Society of Life Sciences

## SATNA (M.P.)



**T**he Society of Life Sciences has a great pleasure in announcing that the executive committee of society has unanimously resolved that **Dr. Dhriti Banerjee, Zoological Survey of India, Ministry of Environment Forest and Climate Change** be awarded **SLS Lifetime Achievement Award 2024** in recognition of her outstanding academic contribution and achievements in the field of **Women Empowerment and Leadership**.



This medal is awarded on the occasion of National Conference on "Innovative and Modern Technologies for Environmental Management" Organized by Department of Environmental Biology, APS University, Rewa (M.P.) from 07<sup>th</sup> to 08<sup>th</sup> March, 2025.

**We wish her success in every walk of life.**



(Dr. A. K. Pandey)  
Working Proccent  
The Society of Life Sciences



(Prof. Shrivesh Pratap Singh)  
General Secretary  
The Society of Life Sciences





Dr. Dhriti Banerjee received the 'SLS Life Time Achievement Award' by the Society of Life Sciences, for her outstanding academic contribution and achievement in the field of Women Empowerment and Leadership



During 'Training on Special Campaign & E-Auction' by Stores Section, ZSI Hq (Kolkata)



National Conference on Invasive Alien Fauna: Threats and Challenges, organized by Zoological Survey of India on 25<sup>th</sup> & 26<sup>th</sup> March 2025 at Kolkatas