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ANNUAL REPORT

2024-25



ZOOLOGICAL SURVEY
OF INDIA
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2024-25



ZOOLOGICAL SURVEY OF INDIA

ANNUAL REPORT 2024-2025

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A close-up photograph of a green grasshopper perched on a large, vibrant green leaf. The grasshopper's body is a bright green, with darker green and brownish markings on its back and legs. Its long, segmented antennae are visible. The background is softly blurred, showing more of the leaf and some out-of-focus greenery.

VISION

...
Taxonomy towards conservation and sustaining
faunal diversity for future.

MISSION

...
To contribute towards conservation of the
fauna through status assessment,
taxonomic studies and documentation
of the country's vast faunal diversity.

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Director

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Acknowledgements



FROM THE DESK OF DIRECTOR

I am delighted to present the Annual Report 2024–25 of the Zoological Survey of India (ZSI), a 109-year-old institution under the Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India. Since its establishment in 1916, ZSI has remained the nation's premier research organization dedicated to the exploration, documentation, and conservation of India's rich faunal wealth. As the custodian of the National Zoological Collections and a Designated National Repository under the Biological Diversity Act, 2002, ZSI continues to provide critical inputs in taxonomy, ecology, conservation biology, environmental management, wildlife forensics, and climate change research.

During the year 2024–25, ZSI scientists successfully implemented 122 research programmes across Headquarters and 16 Regional Centres, in addition to 26 externally funded projects supported by national and international agencies. More than 150 field surveys were conducted across diverse ecosystems and protected areas, resulting in the collection and identification of over 2.8 lakh specimens belonging to 7,473 species. A total of 1,207 species were newly added to the

National Zoological Collections. A significant highlight of the year was the addition of 257 faunal discoveries to Indian fauna, including 147 new species and 110 new records, duly compiled in Animal Discoveries 2024. ZSI continued to excel in scientific publishing, producing 924 publications spanning books, monographs, research papers, checklists, and popular articles. The Records of the Zoological Survey of India brought out seven volumes, while several Occasional Papers, Special Publications, Conservation Area Series, Wetland Ecosystem Series, and institutional reports enriched zoological literature. With modern DNA barcoding laboratories at HQ and Regional Centres, ZSI generated 2,917 DNA barcodes for 707 species this year, reinforcing its leadership in molecular taxonomy and conservation genetics. Capacity building remained a key focus, with 170 workshops, training programmes, and seminars benefiting more than 15,000 participants, while 11 MoUs with national and international institutions further strengthened collaborations. The EIACP Centre at ZSI played a pivotal role in outreach through awareness campaigns, training for Biodiversity Management Committees, thematic workshops, and student engagement programmes. Advisory and identification services were extended to

225 institutions, along with enforcement support through wildlife specimen identification.

Significant infrastructure upgrades were completed across HQ and Regional Centres, including establishment of advanced DNA labs, modernized museums, and enhanced research facilities. The inauguration of the National Centre for Wildlife Forensics and Conservation Genomics at HQ marked a major milestone in strengthening wildlife law enforcement and conservation research. On this occasion, I extend my sincere gratitude to the entire ZSI fraternity for their dedication and perseverance in fulfilling the institutional mandate. With a balance of field surveys, taxonomic discoveries, molecular studies, publications, outreach, and infrastructure development, ZSI continues to contribute to national biodiversity goals while aligning with global priorities under the Convention on Biological Diversity and the Sustainable Development Goals. Together, we shall continue to uphold the legacy of ZSI and advance the cause of conservation of nature and its invaluable faunal resources.

Thank you all for your continued support and commitment.

Dr. Dhriti Banerjee

Director, Zoological Survey of India

02

Executive Summary





The Zoological Survey of India (ZSI), a 109-year-old institution under the Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India, continues to serve as the nation's premier research organization for the exploration, documentation, and conservation of faunal wealth. Established in 1916, ZSI has advanced the study of animal life from unicellular protists to mammals, covering taxonomy, ecology, conservation biology, and environmental management. As custodian of the National Zoological Collections (NZC) and a Designated National Repository under the Biological Diversity Act, 2002, ZSI provides critical inputs for biodiversity management, wildlife forensics, climate change research, and national and international policy frameworks.

Field Surveys and Faunal Documentation

ZSI conducted 150 field and 6 local surveys through its Headquarters and Regional Centres, covering diverse ecosystems such as coastal, estuarine, mangrove, freshwater, Himalayan, agro, marine, Deccan Peninsula, and forest habitats. These included 46 surveys in protected areas, 9 in various States and Union Territories, 13 status surveys of endangered species, and 30 taxonomic studies. Altogether, 2,68,045 specimens and 3,673 nature samples (soil, moss, litter, water, dung, fossil, etc.) were collected, substantially enriching the National Zoological Collections and serving as valuable material for taxonomic and biodiversity research.

New Discoveries and Documentation

ZSI maintained its leadership in faunal exploration. In 2024 alone, 257 faunal discoveries were reported 147 new species and 110 new records to Indian fauna. These included reptiles, amphibians, fishes, molluscs, arachnids, annelids, crustaceans, cnidarians, protozoans, bryozoans, platyhelminths, and multiple insect orders. These findings were compiled in Animal Discoveries 2024, a globally recognized reference source.

Identification of Faunal Collections

During the reporting period, 7,473 species belonging to 3,654 genera, 1,094 families, 273 orders, and 52 classes were scientifically identified across diverse faunal groups, further strengthening the nation's taxonomic and biodiversity knowledge base.

Augmentation of Species to National Zoological Collections

During the reporting period, 1,207 species across diverse taxa were added to the National Zoological Collections (NZC), reflecting substantial enrichment of India's documented biodiversity. Insecta formed the largest share, led by Lepidoptera (moths: 441 species), followed by Coleoptera (52), unspecified Insecta (51), and Hymenoptera (34). Among non-insect groups, notable additions included Nematoda (73 species), Pisces (53), Mollusca (35), Platyhelminthes (64), Myxozoa (29), Testate Amoebae (24), Arachnida (37), Myriapoda (38), and Cnidaria (21). Vertebrate contributions comprised Amphibia (12 species), Reptilia (5), and Mammalia (2), while Crustacea accounted for 16 species across major subgroups.

Research Programmes and Projects

During 2024-25, ZSI Headquarters implemented 56 in-house research programmes, of which 27 were completed, 12 were ongoing, and 17 newly initiated. The 16 Regional Centres managed 66 programmes, comprising 28 completed, 19 ongoing, and 19 new. In addition, 26 externally funded projects supported by 12 national and international agencies were undertaken, covering subjects such as taxonomy, biosystematics, coral reef restoration, molecular systematics, environmental impact assessments, conservation of threatened species, long-term ecological monitoring, and pangolin conservation across South Asia and West Africa.

Publications and Knowledge Dissemination

During the year, ZSI scientists produced 924 publications, including 40 books/monographs, 194 book chapters, 177 SCI journal papers, 191 NAAS-rated papers, 78 other peer-reviewed articles, 121 online checklists, 16 popular articles, 40 abstracts, and several publications in Hindi. The Records of the Zoological Survey of India brought out seven volumes, while the Publication Division released five Occasional Papers, two Special Publications, seven volumes under the Conservation Area Series, one under the Wetland Ecosystem Series, six Fauna of India Checklists, and institutional reports such as Animal Discoveries 2023, Annual Programme of Research 2024–25, and Annual Report 2023–24.

DNA Barcoding and Molecular Research

The DNA barcoding facilities at ZSI HQ and Regional Centres continued to strengthen molecular taxonomy. In 2024–25, 2,917 DNA barcodes representing 707 species were generated, aiding cryptic species identification, taxonomic revisions, and biodiversity databases.

Capacity Building, Training, and Outreach

Capacity building was a core focus, with 170 workshops, training programmes, and seminars benefitting over 15,000 participants, including students, researchers, policymakers, and enforcement agencies. Eleven MoUs were signed with national and international institutes to promote collaborative research.

The EIACP Centre at ZSI spearheaded extensive outreach. Seven major capacity-building programmes were organized, including thematic workshops on soil invertebrates, restoration ecology, mangroves, mosquitoes, and wildlife, as well as training for Biodiversity Management Committees (BMCs) in Tamil Nadu, Andhra Pradesh, Telangana, and Arunachal Pradesh. Outreach activities included International Day of Yoga celebrations, exhibitions at the Animal Taxonomy Summit 2024, and a National Wildlife Week event. Competitions in elocution, painting, quizzes, sit & draw, and digital posters engaged large numbers of students and local communities. Mission LiFE was highlighted through 22 awareness campaigns and seven "Ek Ped Maa Ke Naam" plantation events.

The EIACP Centre also generated knowledge products, including four thematic newsletter issues, 13 posters/infographics, four media infographics, a 2025 desk calendar, and two special publications (in process). A new "Faunal Diversity of India" webpage was launched, a BMC training manual prepared in English, Tamil, and Telugu, and databases compiled covering 8,887 faunal species from Ramsar wetlands and 1,621 species linked to traditional knowledge.

Advisory and Identification Services

ZSI extended expert advisory services by identifying 4,951 specimens and 43 photographs representing 1,243 species for 225 institutions. Additionally, ZSI supported enforcement agencies by identifying 751 specimens and 4,177 photographs representing 105 species of amphibians, reptiles, fishes, birds, mammals, and invertebrates, thereby aiding wildlife law enforcement.

Library and Knowledge Resources

The ZSI Library, one of Asia's richest in zoological literature, preserved and catalogued 15,000 books and journals during the year. Around 500 rare books were renovated. The repository now houses 56,646 books, 13,873 bound volumes of journals, and 189 current journals, serving as an indispensable research resource.

Scientific Engagements and Representation

ZSI scientists remained active in the global research community, delivering 343 lectures, attending 96 seminars, participating in 64 training events, and engaging in 125 meetings. The Director, ZSI, represented the institution at 121 national and international events.

Infrastructure Developments

Significant infrastructure upgrades were undertaken at ZSI HQ and Regional Centres. At HQ, several sections acquired modern instruments, including microscopes, DNA lab equipment, and computing systems. The Diptera Section established a high-end DNA laboratory and curated an insect gallery, while the Mammal & Osteology Section inaugurated the National Centre for Wildlife Forensics and Conservation Genomics to support law enforcement. Conservation genetics facilities were also developed in the Reptilia and Wildlife Sections. The Mollusca Section reorganized its museum displays, documenting over 6,700 specimens, while other divisions enhanced office and research facilities.

During 2024–25, ZSI's Regional Centres underwent major upgrades, including new office floors at SRC Chennai, renovated facilities at NRC Dehradun, campus-wide electrical works at WRC Pune, a DNA lab and museum modernization at CZRC Jabalpur, and structural repairs at DRC Jodhpur and HARC Solan. MBRC Chennai established a modern DNA Molecular Lab, while ANRC Sri Vijaya Puram advanced the National Coral Reef Research Institute, inaugurated a Visiting Scientist Hostel, and modernized its auditorium. MARC Digha, EBRC Gopalpur, SbRC Canning, WGRG Kozhikode, and GPRC Patna also enhanced laboratories, museums, libraries, and research infrastructure, collectively strengthening ZSI's scientific and administrative capacity. In addition, essential procurements such as computers, DNA equipment, microscopes, specimen preservation tools, and furniture were completed. Annual Maintenance Contracts (AMCs) were executed for major instruments, ensuring operational continuity.

The reporting year 2024–25 reaffirmed ZSI's role as India's apex institution for faunal research and conservation. With a strong balance of field surveys, taxonomic discoveries, molecular research, publications, outreach, and infrastructure development, ZSI continued to advance national biodiversity goals while aligning with global priorities under the Convention on Biological Diversity and Sustainable Development Goals. Its growing collaborations, state-of-the-art facilities, and expanding knowledge base ensure that ZSI remains a cornerstone of zoological science and conservation in India.





03

Introduction

The Zoological Survey of India (ZSI), established on 1 July 1916, is the nation's apex institution for faunal research under the Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India. Over the last 109 years, ZSI has advanced from conducting traditional surveys to becoming a multidisciplinary centre of excellence in taxonomy, ecology, molecular biology, conservation genetics, environmental management, and biodiversity informatics. ZSI acts as the custodian of the National Zoological Collections (NZC) and is a Designated National Repository under the Biological Diversity Act, 2002, safeguarding more than 6.4 million faunal specimens representing over 60,000 species from India and neighbouring countries.



The mandate of ZSI has expanded in response to national priorities and global biodiversity commitments. It now encompasses comprehensive surveys of faunal resources across States, Union Territories, biogeographic zones, and ecosystems; status assessments of threatened and endemic species; molecular systematics and DNA barcoding; long-term ecological monitoring including coral reef and sea turtle conservation; environmental DNA and forensic studies; digitization of faunal diversity; GIS-based mapping of species distributions; wildlife forensics; environmental impact assessments; capacity building for stakeholders; advisory and identification services; and supporting policy frameworks under the Wildlife (Protection) Act, 1972, CITES, Red Data Book assessments, and other conservation instruments.

Primary Objectives

- Exploration, Survey, Inventorying and Monitoring of faunal diversity in various States, Ecosystems and Protected Areas of India
- Maintenance & Development of National Zoological Collections
- Taxonomic and systematic studies on fauna of India
- Periodic review of the Status of Threatened and Endemic species
- Publication of Fauna of India, Fauna of States and Conservation Areas
- Ecological and biological studies on species and communities
- Creation and maintenance of "Fauna of India" database
- Training and capacity building in animal taxonomy and conservation
- Wildlife forensics and Identification and Advisory services to academia, organizations / bodies
- Development and maintenance of Museum at Headquarters and Regional Centres
- Genomic studies on fauna of India

Secondary Objectives

- Environmental Impact and Biodiversity assessment for framing management action plans
- Creation and maintenance of EIACP website and CITES Cell
- Research Fellowship, Associateship and Emeritus Scientist Programmes
- Collaborative research programmes on biodiversity with national and international organizations
- Studies of Indian Fauna using GIS and other appropriate tools
- Digitization of National Zoological Collection
- DNA Barcoding of Indian Fauna
- Monitoring of the impact of climate change on faunal diversity

Principal Thrust Areas of Work (2024–2025)

1. Faunal Inventorization of States and Union Territories

Comprehensive surveys were undertaken across multiple States and UTs, enhancing baseline inventories and filling distributional gaps. Key surveys included Bihar, Anjaw district (Arunachal Pradesh), Lahaul Valley (Himachal Pradesh), and Nagaland.

2. Faunal Inventorization of Ecosystems

Field studies covered diverse ecosystems: marine, estuarine, riverine, wetland, island, Himalayan, desert, cave, agro-, and forest habitats. Emphasis was placed on Ramsar wetlands, coral reefs, high-altitude lakes, and fragile island ecosystems. Notable projects included marine sponges of Gulf of Kachchh, coral and coral-associated fauna along Konkan and Malabar coasts, seagrass fauna of North and Middle Andaman, Kabartal Wetland eDNA monitoring, and Diptera fauna of Andaman and Nicobar Islands.

3. Faunal Inventorization of Conservation Areas

Surveys in protected areas generated critical data for management and monitoring. Key areas included Manas NP (Assam), Kali Tiger Reserve (Karnataka), Bhagwan Mahaveer Sanctuary and Mollem NP (Goa), Todgarh-Raoli WLS (Rajasthan), Mount Abu WLS (Rajasthan), Parambikulam Tiger Reserve (Kerala), and Kane & Yordi-Reba Supse WLS (Arunachal Pradesh).

4. Status Surveys of Threatened and Endemic Species

Monitoring focused on priority species such as red panda (Bhutan), Nilgiri marten (Tamil Nadu), White-cheeked Macaque (Arunachal Pradesh), Leatherback Turtle (Andaman & Nicobar Islands), Forest Cane Turtle and Travancore Tortoise (Western Ghats), Kiang (India), and Musk deer (Indian Himalayan Range).

5. Ecological, Behavioural and Applied Studies

Research addressed human–wildlife conflict, climate impacts, and ecosystem health. Projects included Himalayan black bear ecology in Himachal Pradesh, freshwater fish monitoring in Ramsar sites of Tamil Nadu, drinking water microbiome and groundwater quality in Sundarbans, insect pollinator studies in Himalayan agroecosystems, and coral translocation in Gujarat.

6. Taxonomic and Systematic Studies

Morphological, molecular, and phylogenetic approaches resolved taxonomy across diverse groups. Projects included Apidae and Formicinae taxonomy, Dermaptera of India, Sisorid catfishes, Batoids, Lacertid lizards, edible amphibians of Northeast India, Portunid crabs, jellyfish of east coast India, Thripidae, Oxyopes spiders, and musk deer phylogeography.

7. Maintenance of National Zoological Collections (NZC)

The NZC was enriched with 2,80,445 new specimens representing 7,473 species. Type material was carefully preserved, and collections were digitized to enhance accessibility.

8. Zooarchaeological and Fossil Studies

Investigations included zooarchaeological materials from Bharati Huda (Odisha) and fossil fauna from the upper Narmada Basin, with collections digitized for wider use.

9. Advisory, Training and Capacity Building

ZSI provided identification and advisory support to over 225 institutions and 105 enforcement agencies. A total of 170 training programmes and workshops were organized for researchers, students, and field staff on taxonomy, wildlife forensics, and conservation.

10. Digitization and Dissemination of Data

Significant progress was made in computerization of collections, development of interactive identification systems, publication digitization, and creation of new faunal databases, including Ramsar wetland species and groups linked to traditional knowledge.

11. Collaborative Research and Outreach

New MoUs strengthened national and international collaborations. Notable projects included population surveys of Red Panda in Bhutan, pangolin conservation in South Asia and West Africa, and DNA metabarcoding of parasitoids in West Bengal.

12. Publication of Faunal Resources

Updates were made to the Fauna of India series, state and regional faunas, and thematic volumes. Highlights included Fauna of Protected Areas of Lakshadweep, Fauna of Deccan Peninsular India, Lepidoptera of Meghalaya, Collembola of Kachchh, and checklist updates for Bihar and Odisha faunal groups.

13. Checklists of Faunal Groups

ZSI expanded online resources with over 120 updated checklists published during the reporting year.

HEADQUARTERS, KOLKATA

The Headquarters of ZSI comprises various Scientific Divisions and Sections, along with the Library, Publication Division, Identification and Advisory Services, ENVIS Centre, Field Survey Division, Training and Extension Division, Fauna Division, Museum and Taxidermy Division, Photography Section, Art Section, Scanning Electron Microscopy Unit, and Data Centre. In addition, it manages seven zoological galleries at the Indian Museum. These units collectively support the research activities of ZSI scientists.

The Scientific Divisions and Sections at ZSI Headquarters undertake studies on a wide range of animal groups, from Protozoa to Mammalia. The different sections of Headquarters are as follows:

Section: Protozoology

01

Protozoology Section is mainly dealing with the studies on single celled, eukaryotic organisms, which are mostly microscopic and display enormous variability in shape, size and structure. The major contribution of this section includes the taxonomic account of 1508 species i.e., ~ 44% of the known Indian protozoan species is published from this section, including the description of 98 new species and 4 new genera. The total collection holding of this section is about 17000 specimens with 1023 species. The type collections include 381 slides, among them 46 slides of Mastigophora, 25 slides of Opalinata, 9 slides of Sarcodina, 74 slides of Sporozoa, 12 slides of Cnidospora, 159 slides of Ciliophora, and 56 slides of Testate Amoeba. 5 in-house research programmes (4 combined programmes and 1 sectional programme) are ongoing during this year. Two externally funded programme, one on protozoans namely, Assessing the Potential Health of Indian Himalayan Peatland through Long-Term Monitoring of the Eukaryotic Microbial Community and its interaction with Carbon Dynamics sponsored by NMHS; and another one on jellyfish blooms namely, Long-term

monitoring of Jellyfish blooms along the Northern coastal waters of Bay of Bengal funded by INCOIS, are also dealt by this section. In addition to that, our section also deals with the lesser known Phyla Tardigrades and Gastrotrichs of India.



Section: Platyhelminthes

02

The Platyhelminthes Section focuses on research related to the phylum Platyhelminthes (flatworms), encompassing planarians, flukes, and tapeworms, with particular emphasis on the parasitic groups trematodes, cestodes, and monogeneans of vertebrates as well as the acanthocephalans. To date, the section has undertaken more than 44

research programmes, successfully generating a comprehensive database covering 19 States and Union Territories. Species-level databases of Platyhelminthes from all biogeographic zones of India have also been completed. Altogether, 41 families of Platyhelminthes and Acanthocephala have been studied, comprising a total of 27,705 specimens (26,610 identified and 1,095 unidentified), including 459 type collections. In the current year, one programme has been completed, while work is ongoing on two combined programmes and one sectional programme.



Section: Nematelminthes 03

Nematelminthes section deals with the following groups of organisms: Soil-inhabiting nematodes comprising Bacterivorous, Fungivorous, Plant-Parasitic, Predatory and Omnivorous, Entomopathogenic nematodes and Helminth parasites of Vertebrates. More than 50 programmes have been handled by the section and completed the database of 27 States and UTs. The present holdings of the section include 32,011 identified specimens and 7860 vials of unidentified wet collections. Besides, Type collections include 197 slides and 249 specimens of wet collections. At present soil nematodes are being studied from remaining States, Conservation Areas and several Ecosystems, while free-living marine nematodes are being studied from both east & west Coasts of India. More than six Ph. Ds have been awarded and two students are pursuing Ph.D. More than 52 species

have been described as new to science and several new records to India have been published. During the reporting period, 2 new species and 6 new records to India have been described, while two books and 7 research papers have been published.



Section: General Non-Chordata 04

General Non-Chordata section is holding the groups that are associated with Corals and coral reef habitat such as Porifera, Soft corals, Octocorals, Polychaetes, Echinodermata and minor-phyta. In addition, section also holds Earthworms, leeches, terrestrial and aquatic oligochaetes. The section houses 8,84,978 specimens which includes Porifera, Cnidaria, Annelida, Echinodermata and Minor-phyta. Among these, 4195 specimens are Type specimens. GNC section explored 4 new species and published 7 articles in Science Citation Indexed journals during the reporting year.



Section : Crustacea

05

The Crustacea Division holds Crustacean samples like Shrimps, Crabs, Hermit crabs, Woodlice, Fice-lice, and many Planktonic forms like Cladocerans, Copepods, Ostracods, etc., and is more diverse. These specimens were collected from India and adjacent country during various period (from 1850 to till date). The specimens received from several countries across the world, specimens inherited from Asiatic Society of Bengal, Indian Museum and valuable types specimens submitted by the researches of Zoological Survey of India and other research Institutes across the country are maintained by ZSI for more than a century since its inception. Apart from that crustaceans are collected every year from different survey programs under various projects. At present the Crustacea Division holds 141946 specimens of crustaceans including 6581 Types specimens.



Section : Mollusca

06

The Zoological Survey of India's (ZSI) Mollusca Section is one of the leading institutions for research, conservation, and documentation of molluscan diversity in India and the South Asian region. Founded in 1916, its history goes back to the latter part of the 19th century, developing from the collections and scientific work of pioneering naturalists like Dr. N. Annandale, William Benson, Godwin Austen, Hanley, Theobald, Nevill, Gude, and Baini Prasad whose efforts during the British colonial period left rich heritage for malacological research. The Mollusca Section's main collection started with specimens purchased from the Museum of the Asiatic Society of Bengal and the Indian Museum, Kolkata, representing colonial and local contributions to zoology. Presently, it accommodates 2,37,185 registered molluscan specimens, of which 1,472 are Type specimens, documenting over a century of Indian and regional exploration and worldwide expeditions since 1885. This body of work has been instrumental in setting authoritative baselines for Indian and regional malacofauna and is still serving to underpin far-reaching taxonomic revisions, identification of species, and educational programmes. The mollusca Section has accomplished more than 57 large-scale research programs, resulting in the publication of many Fauna volumes and checklists that comprehensively cover the molluscan diversity of 23 Indian States and Union Territories. Even in the current year alone, the Section identified 431 species including a new distributional record, a sign of active fieldwork and survey. The contributions of 12 species to the National Zoological Collections indicate continued endeavors in augmenting India's biodiversity repository. Scholarly output is strong, with 58 new publications during the year including three research articles in Science Citation Indexed journals, three in NAAS-rated journals, one international peer-reviewed journal publication, 20 book chapters, 28 faunal checklists, and three research abstracts. These contributions support the Section's position as a clearing-house for recent and

old scientific literature on molluscs. Alongside its research activities, the Mollusca Section operates a museum that facilitates public engagement and scholarly research. In the current year, it welcomed 276 visitors, including 24 researchers, 121 students, and 131 members of the general public. The museum serves as an educational platform supporting taxonomic training, species identification, and biodiversity awareness, reinforcing ZSI's commitment to outreach and capacity-building in malacology and conservation science. By its vast specimen collections, historical co-operations, and current scientific initiatives, the Mollusca Section has evolved as a national and regional centre of reference for molluscan studies. Its collections have facilitated description of new taxa, comparative phylogenetic investigations, and biodiversity policy and conservation needs assessments. The combination of colonial collections with contemporary fieldwork guarantees continuity in the documentation of India's great and yet unexplored molluscan diversity.



Section: Central Entomology Laboratory (CEL) 07

CEL section is one of the designated national repositories for insect Type specimens in India and also holding valuable Type specimens from different parts of the World. The section is currently holding 14581 Type specimens containing 5739 species from 23 different insect orders. During this year total 476 insect type specimens belonging to 44

species were deposited in the section. The section is contributing to mainly two ongoing programmes "Taxonomic Studies on Formicinae (Hymenoptera) of India" and "Exploration of Natural Enemies of Tea Gardens of India with special emphasis on South and Northeast India: Formicidae, Chalcididae, Braconidae (Hymenoptera)" along with several other combined annual programme of research. Two surveys were conducted to Assam and Chhattisgarh in this year. Total 6180 specimens identified belonging to 231 species from 7 different families. 8 Identification and Advisory Services rendered to different organizations. Total 53 species augmented to National Zoological Collections. Total 15 publication and 03 new records to India of Formicidae published.



Section : Isoptera 08

The Isoptera Section at the Zoological Survey of India Headquarters (ZSI-HQ) specializes in the morphological taxonomy of termites. Established in 1956, the section has gained international recognition through the contributions of renowned experts such as Dr. M. L. Roonwal, Dr. O. B. Chhotani, Dr. G. Bose, and Dr. P. K. Maiti. It has undertaken more than 22 research programs, covering all eight termite families present in India.

The section houses the largest termite depository in the country, containing 415 species from India and abroad. It holds approximately 7,456 vials of termite specimens, of which 7,035 have been identified, and maintains 2,356 type collections.

In addition to classical taxonomy, the section is also actively involved in generating molecular signatures through DNA barcoding to support accurate species identification and to complement morphological studies.

Currently, the section is engaged in surveys and taxonomic studies in various regions, including wildlife sanctuaries, tropical dry deciduous forests in West Bengal, Manas National Park, Dihang-Dibang Biosphere Reserve in Arunachal Pradesh, the state of Bihar, the Deccan Peninsular Biogeographic Zone, the Chota Nagpur Plateau, and Phase II of Nagaland. With a strong focus on taxonomic research, the section has described 105 new species of termites and published over 150 research works, including books, book chapters, and articles in national and international journals. In the past five years alone, the scientists, staff, and research scholars of the Isoptera Section have described five new species and one new genus, reported 14 new records for India, and published 13 book chapters and eight research articles.

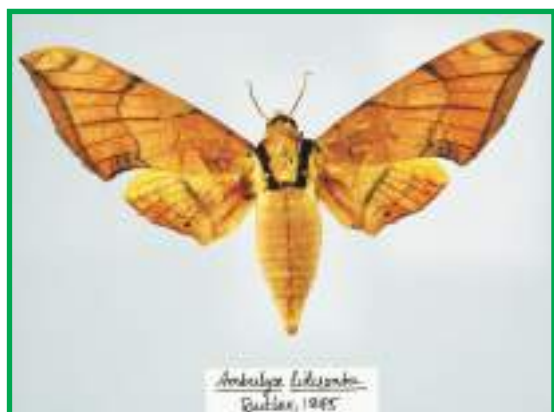


Section: Lepidoptera

09

Indian Lepidoptera (Butterflies and Moths) diversity is extremely rich and fascinating with nearly 13,500 species reported from India. Among Lepidoptera, butterflies are relatively well worked out which represents approximately 10% of the total Lepidopteran diversity of India, leaving hyper-diverse moths as the 'lesser known kin'. Lepidoptera section is primarily involved in collection, preservation, identification, cataloguing/

computerization, digitization and documentation of Lepidopteran (moths and butterflies) fauna of our country. The section holds 1,28,480 specimens of which 98,035 are named specimens and the rest 30,445 are unnamed specimens. There are 4024 species and subspecies of butterflies and 2500 species and subspecies of moths. Lepidoptera section is honored in having the collection of 63 countries (including India) and about 800 types. In the section, the first registered butterfly specimen is a male *Hasora umbrina* (Mabille, 1891) (Hesperiidae), cataloged as 1/H9. This specimen was collected from N.E. Celebes and officially registered by Capt. Evans on October 1, 1931. However, the oldest butterfly specimen in the collection is *Papilio tamerlanus* (Oberthür, 1876), dating back to 1803. This historically significant specimen is preserved under registration number 27733/H9, with its most recent cataloging recorded on January 4, 2021. The first registered moth specimen is *Scopula emessaria* (Walker, 1861) (Geometridae), cataloged as 1/H10. This specimen was collected on January 19, 1940, and officially registered on March 12, 1940. The oldest moth specimen housed in the section is *Asura punctifascia* (Walker, 1869), collected on October 9, 1848, and later registered as 99/H10 on March 10, 1950. The important collections made by eminent naturalists such as Lionel de Nicéville, K. Jordan, W.H. Evans, E.E. Green, G.C. Dudgeon are also preserved in this section. So far, the scientists and scientific staff of the Lepidoptera section provided Identification and advisory services to more than 150 institutions. As an initiative of Lepidoptera section under 'Digital India', an online portal, 'Catalogue of Indian Lepidoptera' (<https://www.indianlepidoptera.in/>) was launched on 1st July, 2022. Currently, the online catalogue is enriched with the taxonomic information including, but not limited to updated nomenclature and distribution of more than 3400 species of Indian Lepidoptera. The catalogue is being updated continuously and aims to have taxonomic information on all the Indian Lepidoptera.



Section: Hymenoptera

10

The Hymenoptera section is the vibrant core of our research institution, dedicated to studying pests, pollinators, and the parasitic and predatory families within the Hymenoptera order. We excel in collecting, preserving, identifying, cataloguing, and digitising hymenopteran fauna, while also providing essential support to researchers across India. Currently, we are actively engaged in four research programs, including a pioneering project sponsored by DST-SERB, focused on using parasitic wasps to control insect pests affecting agricultural and horticultural crops in Northeast India. During the reporting period of 2024-2025, three surveys were conducted in Madhya Pradesh and West Bengal. We identified, registered, and digitised a total of 1,223 specimens belonging to 150 species across 13 families of Hymenoptera. Our overall collection includes 47138 specimens, including 27105 identified species. Among these, we augmented our collection with 15 species: one from the Ceraphronidae family, one from the Evaniidae family, four from Halictidae, eight from Megachilidae, and one from Trigonalyidae. Additionally, we described four new species and reported 11 species for the first time in India. We published a total of 12 research papers, including eight in SCI journals, three in NAAS-rated journals, and one online checklist. During this period, we provided 19 identification and advisory services to various institutions, generating 20 DNA barcodes.

Four research scholars in the Hymenoptera section have registered for their Ph.D. at the University of Calcutta.



Section: Coleoptera

11

The Coleoptera Section was established in 1927 and has the largest depository of beetles in India and even in Asia, harboring over 4,29,993 specimens including 1,096 type species (specimens can be traced in CEL). Currently, the section is involved with the survey and study of Deccan Peninsula Biogeographic Zone, Bihar state, as well as wildlife sanctuaries and tropical dry deciduous forests in the state of West Bengal. The section focuses on taxonomic research on the following families: Carabidae, Cicindelidae, Gyrinidae, Dytiscidae, Noteridae, Hydrophilidae, Halipidae, Scarabaeidae, Passalidae, Lucanidae, Geotrupidae, Nitidulidae, Coccinellidae, Chrysomelidae, Cerambycidae, Staphylinidae, and Histeridae, resulting in the publication of new species, records in India, reviews of genera, and checklists. Three research scholars are currently working on their PhD thesis on different aspects of beetle taxonomy. In the past five years the scientists, scientific staff and research scholars of the section have described over 36 new species, reported 25 new records to India and published 16 books, 183 book chapters, and 71 research articles.



Section: Miscellaneous Insect Order (MIO)

12

The Miscellaneous Insect Order Section is one of the oldest insect order section at ZSI headquarters and currently deals with taxonomic studies on several orders of insects like Odonata, Trichoptera, Neuroptera, Ephemeroptera, Psocoptera, Embioptera, Plecoptera, Megaloptera and Mecoptera. The official registration of specimens of MIO section started in March 1973. The section holds some very old collections made by eminent scientists like H.S. Pruthi and H.A. Rao and others dating back to even 1933. Nearly 666 species under 239 genera belonging to 72 families are present in the sectional holdings and holds a total of 41472 specimens, of which 26234 are identified and registered. So far more than 28 programmes have been handled by the scientists of MIO section. Presently the section has one sectional ongoing annual programme and also participating in 12 ongoing Annual Programmes of Research. Over the past ten years, the scientists, scientific staff, and researchers of the section have described more than 50 new species belonging to the orders Trichoptera and Ephemeroptera, and have also reported 25 species as new records for India. Additionally, they have published over 70 peer-reviewed research articles in both national and international journals.



Section: Apterygota

13

The Apterygota are most primitive, wingless hexapods usually found in moist places such as soil, forest leaf litter, humus, under stones, caves, in ant and termite nests. More than 34 programmes have been handled by the section and completed the database of 11 States and UTs. Five groups- like Collembola, Protura, Diplura, Archaeognatha and Zygentoma have been worked out. More than 280 research publications including Pictorial handbook of Collembola and Thysanura, and revisionary studies of Collembola have been published. The section has a holding of 40,315 specimens of Apterygota of which 27,758 specimens are identified and 12,557 specimens are unidentified. 329 specimens are Type Collection specimens. During the reporting period, five (05) species of Collembola have been described as new to science along with eleven (11) Collembola species are described as new records from India.



Section: Orthoptera

14

Orthoptera Section deals with Orthoptera, Blattodea, Mantodea, Phasmida and Dermaptera. The section has holdings of 56810 specimens of which 50864 are identified specimens (Orthoptera-41039 nos., Blattodea-909 nos., Mantodea-522 nos., Phasmida-314 nos., and Dermaptera-8080 nos). Type specimens of Orthoptera are deposited in Central Entomological Laboratory of ZSI, Kolkata. More than 55 programmes have been handled by the section and completed the database of 27 States and UTs. Presently the section is involved in 2 ongoing programmes on Orthoptera. Total 2958 specimens under 200 species were identified from 3 Orders, during the period under report. During this year three online checklists; Orthoptera; Phasmida; Dermaptera were published along with 8 research papers, 2 book chapters with 2 two new records of Orthoptera to India. Identification and advisory services were rendered to researchers and different institutes.



Section: Hemiptera

15

Hemiptera is the largest among hemimetabolous insects and the section has a holding of 1,54,805 specimens of terrestrial, semi aquatic and aquatic bugs. Collection, preservation, identification, registration, digitization and documentation of the true bugs is primarily mandate of the Section. Major achievements of the section are Fauna of India-Aphididae (8 vols.), Checklist of the Scale Insects

and Mealybugs of South Asia, A review of Indian coccids, Assassin bugs (Reduviidae: Heteroptera) from Chhattisgarh, India, Handbook on Major Hemipteran Predators of India, Catalogue of Reduviidae of India, Fauna of India Checklist (Arthropoda: Insecta: Hemiptera). Presently Hemiptera section is participating in 5 In house co-ordinated Projects. The section has total holdings of 1,54,805 specimens comprising of 73,362 identified and 81,443 unidentified specimen. In total 7311 specimens under 459 species were identified in the reporting period. During this year, 1 book; 8 book chapters; 18 research articles (SCI: 08, NASS: 10); 2 popular articles and 1 checklist were published. Identification and advisory services are offered to students, researchers and scientists of different institutes and Universities.



Section: Diptera

16

The order Diptera, commonly known as true flies, is a diverse group of insects distinguished by a single pair of functional wings and a pair of halteres (modified hindwings for balance). With over 150,000 described species, Dipterans are one of the most widespread and ecologically significant insect groups across the globe. Their immense diversity, wide distribution, and broad ecological functions make them indispensable to global ecosystems. Dipteran flies play crucial roles in natural pest control as predators and parasitoids, aid in nutrient cycling, soil turnover, and organic matter decomposition, and contribute to forensic science and plant pollination. Their significance extends to

vector biology, as many species are known vectors of human and animal diseases, making their study vital for public health and epidemiology. Furthermore, Diptera hold substantial economic, ecological, aesthetic, and even cultural value in various human societies.

With a legacy spanning over 63 years, the Diptera Section (established in 1962) continues to bridge classical and applied research in fly taxonomy. The section focuses on several key Dipteran groups, including those of vector importance, predatory and pollinating species, forensically relevant taxa, and other economically significant flies. In recent years, the section has also incorporated molecular techniques such as DNA barcoding to accurately identify species, resolve cryptic taxa, and support ecological and evolutionary studies. DNA barcoding has enhanced the precision of Dipteran classification and contributed significantly to biodiversity documentation and conservation efforts.

To date, the Diptera Section has handled more than 89 research programmes, completing species inventories across 20 Indian States and Union Territories, and has studied 94 families of Diptera. The National Zoological Collection under Diptera section holds 1,07,443 specimens, including 1,05,899 in the General Collection and 1,544 in the Type Collection.

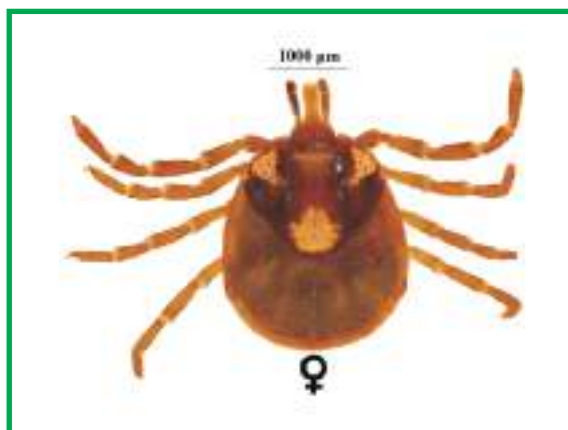
Over the years, the section has nurtured a vibrant academic environment, with several young researchers completing their Ph.D.s and making notable contributions to the field through significant publications and placements in reputed institutions. Currently, the section is engaged in multiple ongoing research projects focused on advancing knowledge and applications related to Diptera.



Section: Acarology

17

Acari are by far the most diverse and abundant group of arachnids and are clearly important in the functioning of many ecosystems. Acarology Section established in the year 1964 deals with a variety of soil mites, Plant mites, Parasitic mites, Water mites, and Ticks. More than 54 Programmes have been handled by the section and completed the details of 28 states, 04 Biogeographic zones and 09 UTs. More than 18 families of plant mites, 120 families of soil mites, 01 family of water mites and 03 families of ticks have been dealt till date. The Section has a total holding of 53,326 general collection 1604 type collection. Presently the section is handling 07 ongoing programs to cover various ecosystems and Protected areas. The major contribution of this section is to prepare the faunal account of the Indian acari comprises 2434 species belonging to 623 genera and 169 families in compare to the world diversity of 48,200 described species.



Section: Arachnida

18

Arachnida is one of the most diverse groups in the animal kingdom, comprising several unique and ecologically important organisms. These eight-legged arthropods play a vital role in maintaining ecological balance, functioning both as predators and prey in various ecosystems.

At present, the Section deals with a wide range of groups, including: Spiders (Order: Araneae), Scorpions (Order: Scorpiones), Pseudoscorpions (Order: Pseudoscorpiones), Whip Scorpions (Order: Uropygi), Tailless Whip Scorpions (Order: Amblypygi), Harvestmen (Order: Opiliones), Sun Spiders (Order: Solifugae), Sea Spiders (Class: Pycnogonida), Centipedes (Class: Chilopoda) and Millipedes (Class: Diplopoda).

So far, 42 families of spiders have been studied by the section. In addition, the section has documented 1 family of whip scorpion, 2 families of harvestmen (Opiliones), and 4 families of scorpions, enriching our understanding of Indian arachnid diversity. The total number of general collections has now increased to 45,907 specimens, reflecting extensive field surveys and research efforts over the years.

Currently, the section is engaged in 08 research projects including 07 approved annual programmes of research and 01 externally funded project (ANRF). It focuses on taxonomic studies of all arachnid orders except ticks and mites (Acari), resulting in the description of new species, new distributional records from India, taxonomic revisions, preparation of checklists and book chapters.

Besides research, the section actively supports students and professionals by providing identification and advisory services. It also assists M.Sc. students in completing their dissertations on arachnid-related topics.

As part of its capacity-building initiatives, the section successfully conducted a SERB-sponsored High-End Workshop (Karyashala) on Indian Spiders, which was specially designed for postgraduate and doctoral students.



Section: Marine Fish

19

The Marine Fish Section of the Zoological Survey of India (ZSI) houses one of the largest and most well-established collections of marine fishes in the country. This repository holds historically significant material, including specimens gathered by the Asiatic Society of Bengal in the 19th century and the exclusive collections of Sir Francis Day, dating back nearly 160 years. In addition, the repository is enriched with several exotic species acquired through international exchanges, further enhancing its uniqueness. At present, the section maintains a total of 506,221 specimens, comprising 505,208 specimens in the general collections and 1,013 specimens in the type collections. Its primary mandate is the comprehensive collection, preservation, identification, digitization, and documentation of India's diverse marine ichthyofauna. Beyond curation, the section plays a vital role in providing advisory services, including the identification of specimens and confiscated materials, as well as capacity building through lectures and hands-on laboratory demonstrations for students and researchers. Over the years, the Marine Fish Section has successfully completed more than fifty two research programs and continues to contribute to several ongoing projects at ZSI, reaffirming its importance as a national hub for ichthyological research and expertise.



Section: Freshwater Fish

20

The Freshwater Fish Section of the Zoological Survey of India, Kolkata, is the country's largest repository for freshwater fishes, hosting 3.5 lakh specimens, including more than 1814 type specimens. It includes a century-old collection made by the Asiatic Society of Bengal, which was later handed over to the Zoological Survey of India. Collections made by eminent scientists/researchers of the country and abroad are being maintained in the section. During the last decade, more than eight projects/ programmes have been completed, including one externally funded project and at present, seven programmes are ongoing in the section. Scientists and researchers of the Freshwater Fish section have discovered and described more than 35 fish species from India and Myanmar during the last decade.



Section: Amphibia

21

At present, the Section is involved in several programs on Taxonomic Study of the Critically Endangered, Tura Shrub frog and Habitat Suitability Assessment of Himalayan Salamander. 39 programs have been handled by the Section, the most recently concluded ones are on the Fauna of Singalila National Park, the Terai grasslands and Dry deciduous forests of West Bengal. 16 families of Indian Amphibians belonging to all 3 Orders have been dealt till date comprising 179 species. The present holdings of the Section include over 37000 specimens. Besides, the Section also possesses 157 specimens from other countries and 326 type

specimens. This year (2024-2025) three more species has been augmented to the National Zoological Collections.



Section: Reptilia

22

The Reptilia Section houses some of the oldest collections of reptile specimens from India and abroad, many of which were acquired during the British period and subsequently enriched with new additions. It currently holds the largest reptile collection in the country, representing Crocodilia, Testudines, and Squamata (lizards and snakes). The total holding stands at 35,276 specimens, of which 62 are unidentified specimens, including more than 562 name-bearing type specimens.

Beyond taxonomy, the section undertakes extensive research on ecology, evolution, and conservation, and contributes to policy interventions concerning reptiles in India. It also provides advisory and capacity-building services through student internships, identification of confiscated wildlife materials, and organization of lectures, training programs, and workshops. During 2024–25, several significant achievements were recorded. A new species of snake, *Ahaetulla longirostris* Mirza et al., 2024, was described by scientists of the section. The staff of the section are involved in various Annual Programme of Research activities with respect to documentation of reptiles and have one in-house programme on the “Threatened Reptiles of Eastern Ghats”.

During the reporting period, the scientists and staff delivered more than thirty-two lectures and

provided identification certificates in 25 cases, pertaining to 4,013 materials examined, which accounted for 12 species and involved 12 agencies from West Bengal and Odisha. A census of muggers was initiated in Pakhal Wildlife Sanctuary in collaboration with the Telangana Forest Department, and the section contributed to the preparation of the Vision Document for the National Red List Assessment of Indian Fauna under the Zoological Survey of India. The section also represented India at international forums. Dr. Pratyush P. Mohapatra, Scientist E and Officer-in-Charge of the section, was deputed to attend the 33rd meeting of the CITES Animals Committee, held in Switzerland from 12th to 19th July 2024. Another deputation was made to the Natural History Museum, London, from 19th to 24th November 2025, to undertake the digitization of reptile species, thereby strengthening global collaboration and digital archiving efforts. Dr. Mohapatra also attended the 10th World Congress of Herpetology (WCH10) at the Borneo Convention Centre, Kuching, Sarawak, from 5th to 9th August 2024 and presented papers. In addition, the Reptilia Section continues to play a pivotal role in mitigating snake-human conflict across India, combining scientific research with outreach and awareness initiatives to reduce conflict and foster coexistence.



Section: Bird

23

The avian collection comprises a total of 50,000 meticulously preserved specimens representing approximately 600 distinct bird species housed in the Bird Section. These specimens have been systematically gathered from both within and beyond Protected Areas, spanning not only the borders of India but also encompassing various

neighboring nations and beyond. Among these, impressive counts of 46,159 specimens have been precisely identified down to the species level. In the recent period of 2024-25, a noteworthy accomplishment entails the identification of 402 specimens, encompassing 162 different species, from the accumulated backlog collection. A pivotal highlight of this bird collection revolves around the presence of Type specimens a collection that has evolved over two centuries, signifying an invaluable resource in the field. The collection currently boasts the curation of 504 distinct Type specimens. Furthermore, the bird section of this institution actively fulfills its role by offering identification services and expert guidance in relation to confiscated wildlife articles. During the reporting period the Bird section has handled 50 cases involving confiscated wildlife articles encompassing over 200 Schedule bird species. This services were predominantly utilized by the West Bengal Forest Department, Postal Appraising Department, The Judicial Magistrate First Class (JMFC) Chilika, Khordha, Odisha, WCCB, Eastern Region and the Customs Office of West Bengal, thereby contributing significantly to conservation and legal interventions



Section: Mammal & Osteology

24

The Mammal & Osteology Section of the Zoological Survey of India (ZSI) maintains one of the country's most comprehensive repositories of mammalian diversity, with over 32,000 dry and wet specimens, including more than 300 type specimens representing a wide range of taxa. The collection

encompasses approximately 71% (323 species) of India's 455 recorded mammalian species, including 28 endemics, and spans the entire size spectrum from the Etruscan pygmy shrew (*Suncus etruscus*), the world's smallest mammal, to the blue whale (*Balaenoptera musculus*), the largest mammal on Earth.

In a major taxonomic advancement this year, ZSI scientists described a new putative species of pangolin, the Indo-Burmese pangolin (*Manis indoburmanica*), which is hypothesized to have diverged from the Chinese pangolin around 3.4 million years ago and is potentially distributed across India, Nepal, and Myanmar.

The section has also taken the lead in implementing integrated disease surveillance under the One Health framework, bridging the human, livestock, and wildlife health sectors, and has begun developing the required protocols and infrastructure. In addition to taxonomic research, the Mammal & Osteology Section plays a vital role in wildlife forensics and enforcement support. It routinely provides species identification and expert advisory services for confiscated mammalian derivatives received from enforcement agencies across India. During the last financial year alone, the section processed 308 wildlife crime exhibits spanning 80 cases, and generated DNA barcodes for 198 specimens representing 69 species of mammals, birds, reptiles, and insects.

Through its expanding collections, taxonomic discoveries, disease surveillance initiatives, and forensic services, the Mammal & Osteology Section continues to make significant contributions to the understanding, conservation, and protection of India's mammalian biodiversity.



Section: Paleozoology
Division: Invertebrate &
Vertebrate Palaeozoology
and Prehistoric Zoology Section

25

The Palaeozoology Division of Zoological Survey of India houses India's most comprehensive collection of zooarchaeological remains from over 50 archaeological sites across the subcontinent. The collection includes specimens from major Indus Valley Civilization sites (Harappa, Mohenjodaro, Lothal, Kalibangan, Rangpur, Rupar) and other prehistoric sites of Indian subcontinent (Nagarjunakonda, Hastinapur, Burzahom, Rajghat, Taxilla Tilaurokot & Kodan, Andaman Kitchen Midden sites and others). The Division maintains 30,168 total specimens across three sections, with 22,858 identified and catalogued. Beyond archaeological materials, it holds comparative collections of modern animal skeletal remains for accurate identification of ancient specimens. Recent additions include materials from ASI excavations at Uraon, Bharatihuda, Radhanagar-Kankia and New Rajgir sites. The division also preserves extensive vertebrate and invertebrate fossil collections, providing insights into prehistoric ecosystems. An ongoing digitization initiative is converting osteological references and fossils into digital formats, including molluscan and echinoid fossils from locations like Mizoram, Nagpur, and Dwarka, all catalogued with barcode numbers for enhanced accessibility and preservation. Under the ongoing project of Fossil fauna from Dwarka coast, Gujarat, the systematic identification and analysis of molluscan, echinoid and coral fossils are yielding important paleoenvironmental and evolutionary insights. The division has started working on comprehensive identification and digitization of the entire Madhya Pradesh collection, which contains substantial assemblages of molluscan and echinoid fossil fauna that provide valuable data on the prehistoric biodiversity and ecological conditions of central India.



Section: Wildlife & Conservation 26

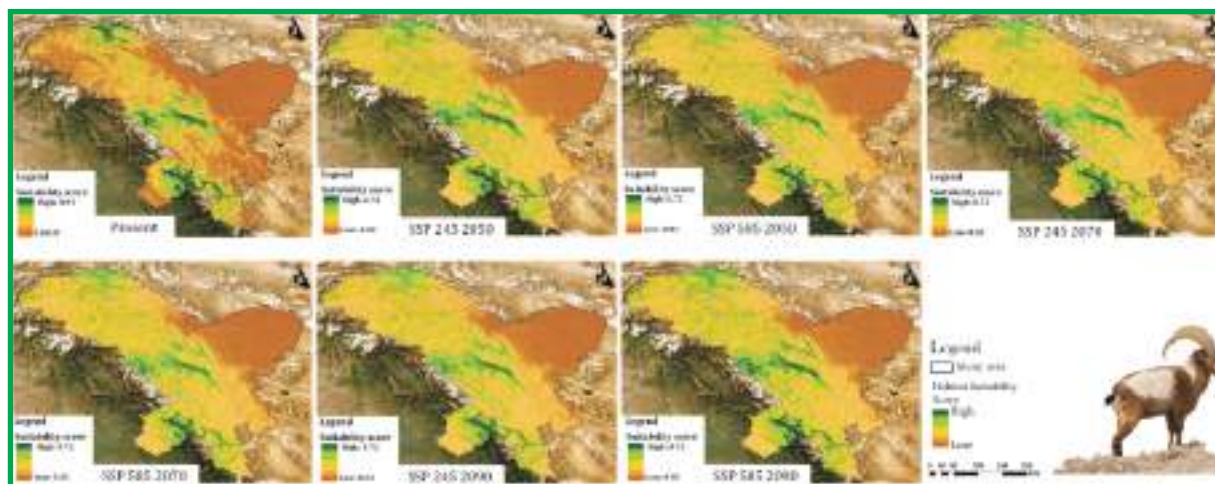
The Wildlife & Conservation Section at the Zoological Survey of India, Kolkata, continues to lead in research on wild mammals, with a strong focus on landscape ecology, habitat studies, and conservation science. The Section contributes significantly to understanding species distribution, ecological interactions, and environmental pressures shaping biodiversity across India's biogeographic zones.

In 2024-2025, the Section focused on large Himalayan mammals that are ecologically important and threatened. Key species studied include the Kiang (*Equus kiang*), Musk Deer (*Moschus* spp.), Himalayan Ibex (*Capra sibirica*), Common Leopard (*Panthera pardus*), and Asiatic Black Bear (*Ursus thibetanus*). Research emphasized status assessments, ecological preferences,

population estimation, and landscape-level dynamics using field techniques such as sign surveys, camera trapping, habitat evaluations, and geospatial mapping. Findings have helped identify core habitats, movement patterns, and emerging threats like habitat fragmentation, human disturbance, and climate change. Tools such as GIS, remote sensing, and occupancy modeling supported habitat suitability analysis and spatial prioritization under changing environmental conditions.

The Section prioritizes landscape-scale conservation, identifying ecological corridors and barriers that influence species movement critical for planning in mountain regions experiencing rapid change. In addition to research, the Section conducted training programmes for forest officials, researchers, and students in wildlife monitoring, species identification, and ecological data analysis. These initiatives enhance field capacity and support standardized biodiversity monitoring.

The Section also provides academic mentorship to Ph.D. and M.Sc. students, fostering expertise in wildlife ecology, human-wildlife conflict, and climate resilience. Through its integrated research, capacity building, and academic engagement, the Wildlife Section supports ZSI's core mandate of documenting, monitoring, and conserving India's faunal diversity. Its work continues to guide science-based conservation and national biodiversity priorities.



Section: Soil Zoology

27

Soil Zoology section deals with taxonomical and ecological studies on microscopic protozoans to mammals Ecology and Conservation Division. Enormous projects were handled on mammals, mollusca, insects, mites, earthworms and protozoans inhabiting in soil from this section. At present the collection holdings are 1281 slides 4961 specimens belonging to 58 species of Testate Amoeba has been digitized. The soil protozoans mainly on testate amoeba and terrestrial crustaceans and few mollusks were registered in the section. The section renders internship and training to post graduate students, research scholars on collection and preservation on soil fauna. Currently section is involved in 2 coordinated research ongoing programmes of ZSI in Fauna of Nagaland and Mangroves associated fauna of Sundarban Mangroves at West Bengal . Identification and advisory services were rendered to Universities, research institutions based on the expertise availability in section. Officers and staffs of soil zoology section also participates in out reach activities in ZSI programmes and Rashtriya Karmayogi, swatchta campaign and Mission life programmes.



Section: DNA and Molecular Systematics Laboratory

28

The establishment of the Centre for DNA Taxonomy (CDT) under Molecular Systematics Division (MSD) was initiated in 2011 at the Zoological Survey of India (ZSI). As of now, the CDT, MSD, HQ has generated 7693 DNA barcode data of various animal taxa, especially the spiders, insects, amphibians, reptiles, birds and mammals. The generated DNA barcode data has contributed greatly to the global databases (GenBank and BOLD) to accelerate systematics and evolutionary research. The section has a current holding of 23554 specimens of 658 species. Several externally funded projects funded by the Anusandhan National Research Foundation (ANRF), National Mission on Himalayan Studies (NMHS), Ministry of Environment Forests and Climate Change (MoEFCC), etc. are currently running by the section. Comparative Mitogenomics, Environmental Metagenomics, etc. are some of the current thrust areas of the Centre.



Section: Museum & Taxidermy | 29

Museum and Taxidermy Section maintains the seven Zoological galleries (Invertebrate, Fish, Amphibian, Reptile, Bird, Mammals and Ecosystem) in Indian Museum Kolkata. Along with the Museum exhibits, it has Reserve and Loan collections in the Taxidermy Section. Nearly 6 lakh visitor visit the gallery annually. Eleven programmes have been handled by the section and completed the database of 4 States. The section has a total holding comprising 3180 Exhibits (Gallery exhibits, Reserve Collections and Loan Unit) display in the Indian Museum. Mammals, Birds, Reptilia and Insects

groups were worked out till date. Presently the section is involved in one ongoing programme ie. Centipedes (Scolopendridae) of North East India. Also the section involved in one combine survey ie. Fauna of Nagaland Phase II For creating awareness on environment and its faunal resources, this Section participates in various Science Exhibitions with Ecological, Environmental and Conservational themes. Further, the section actively engaged with the academic community by offering research opportunities for M.Sc. and Ph.D. students interested in Museology and Taxidermy.



04

Surveys.

The Field Survey Division coordinates surveys undertaken by various scientific divisions of the Headquarters and Regional Centres of ZSI. During 2024–2025, over 150 surveys were conducted by ZSI scientists across the country.



Summary of Surveys Undertaken during the Year 2024–2025

During 2024–2025, a total of 150 surveys, along with 6 local surveys, were undertaken by the Zoological Survey of India through its Headquarters and Regional Centres. The surveys covered a wide range of ecosystems including coastal, estuarine, mangrove, freshwater, Himalayan, agro, marine, Deccan Peninsula, and forest habitats. In addition, extensive work was carried out in protected areas (46 surveys), State/Union Territories (9 surveys), status surveys of endangered species (13 surveys), and taxonomic studies (30 surveys). Other studies, including local surveys on aquatic and coastal ecosystems, further contributed to documenting faunal diversity across diverse ecological landscapes of the country.

In the course of these surveys, a total of 268,045 specimens and 3,673 nature samples (including soil, moss, litter, water, dung, fossil, and others) were collected, providing valuable material for taxonomic research, biodiversity assessment, and long-term reference in the National Zoological Collections.

Details of Surveys	Headquarters	Regional Centres
1. ECOSYSTEMS		
a. Coastal	06	–
b. Estuarine Ecosystem	–	02
c. Mangrove Ecosystem	–	04
d. Freshwater Ecosystem	03	06
e. Himalayan Ecosystem	03	02
f. Agro-ecosystem	02	02
g. Deccan Peninsula	01	–
h. Marine Ecosystem	02	01
i. Forest & Coastal Ecosystem	02	–
j. Forest Ecosystem	04	02
2. PROTECTED AREAS	04	42
3. STATE / UNION TERRITORY SURVEYS	03	06
4. STATUS SURVEY OF ENDANGERED SPECIES	10	03
5. TAXONOMIC STUDIES	21	09
6. STUDY TOUR	–	–
7. OTHER STUDIES	03	07
8. LOCAL SURVEYS	03 (Aquatic Ecosystem)	03 (Coastal Ecosystem)
TOTAL	64 + 3 Local Surveys	86 + 3 Local Surveys
GRAND TOTAL	150 + 6 Local Surveys	

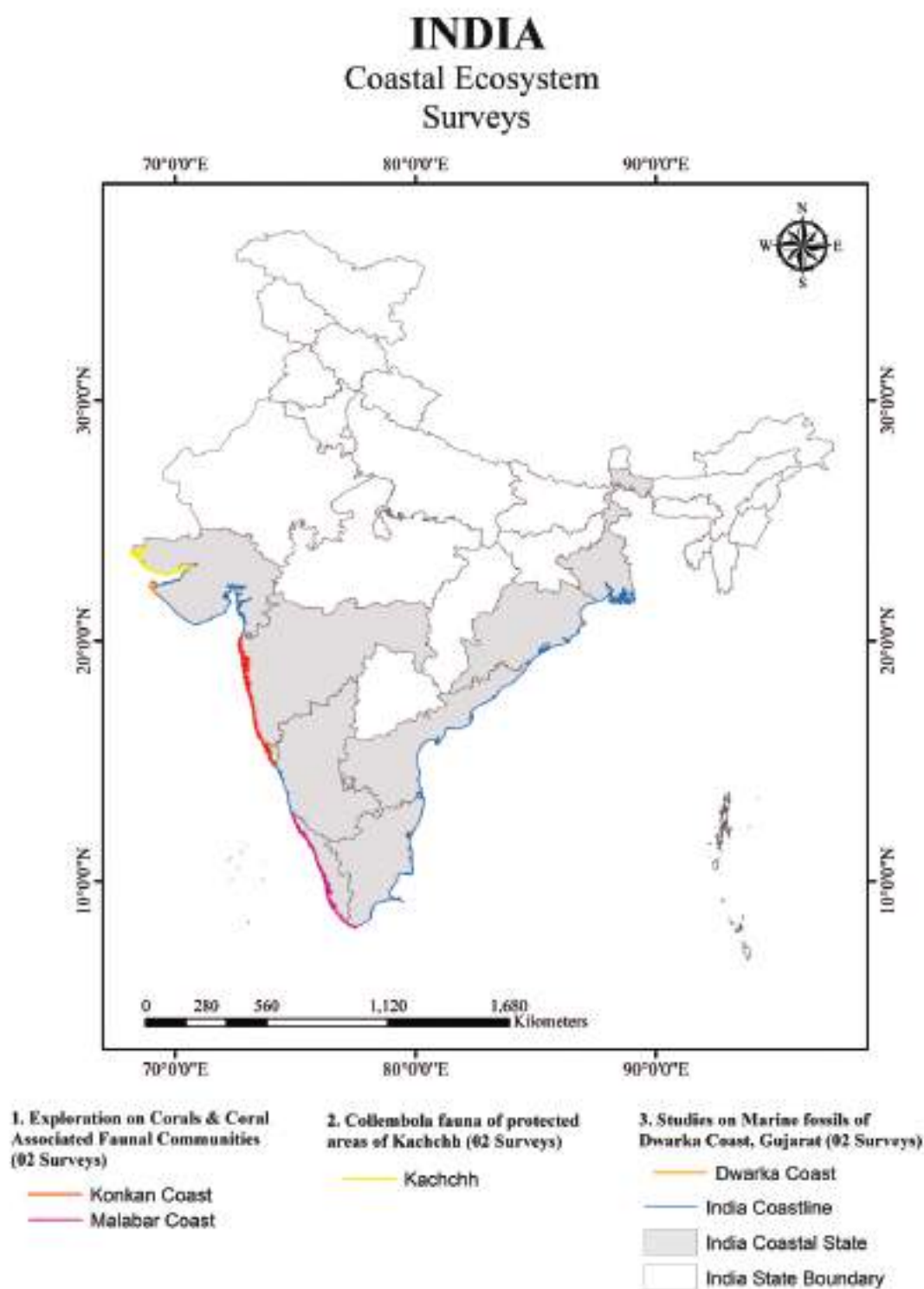
Number of Specimens and Samples Collected during 2024–2025

HQ / RC	Specimens Collected	Nature Samples Collected (Soil, Moss, Litter, Water, Dung, Fossil, etc.)
Headquarters (HQ)	99,483	1,459
Regional Centres (RC)	168,562	2,214
Total	268,045	3,673

Details of Surveys Undertaken during the Year 2024–2025

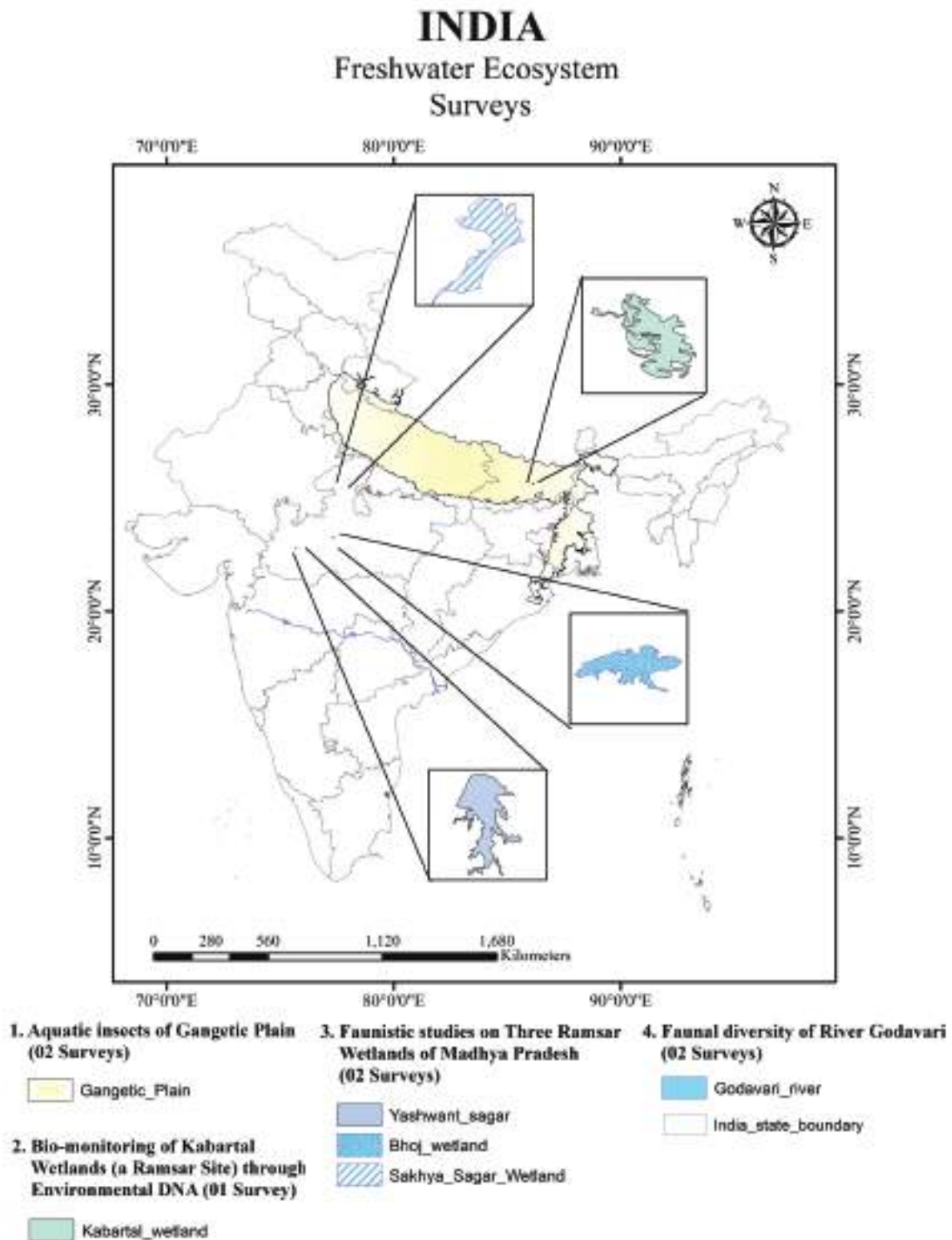
1) Coastal Ecosystem – 6 Surveys

1. Exploration on Corals & Coral Associated Faunal Communities along Konkan & Malabar Coasts of India (02 Surveys)
2. Collembola fauna of protected areas of Kachchh (02 Surveys)
3. Studies on marine fossils of Dwarka Coast, Gujarat (02 Surveys)



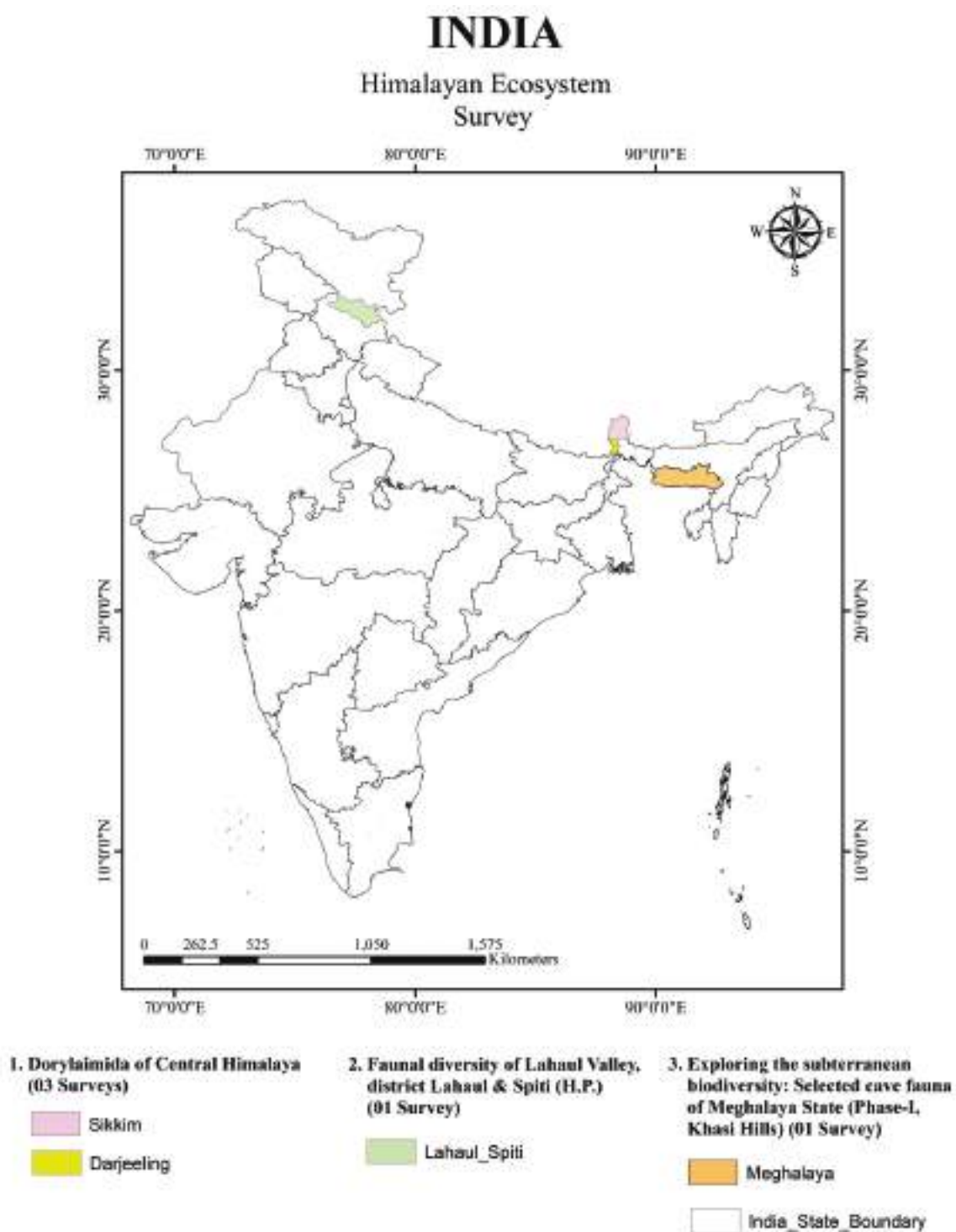
2) Freshwater Ecosystem – 9 Surveys

1. Aquatic insects of Gangetic Plain (02 Surveys)
2. Bio-monitoring of Kabartal Wetlands (a Ramsar Site) through Environmental DNA (01 Survey)
3. Faunistic studies on Three Ramsar Wetlands of Madhya Pradesh (02 Surveys)
4. Wetland Health Assessment on Ramsar Sites of India (02 Surveys)
5. Faunal diversity of River Godavari (02 Surveys)



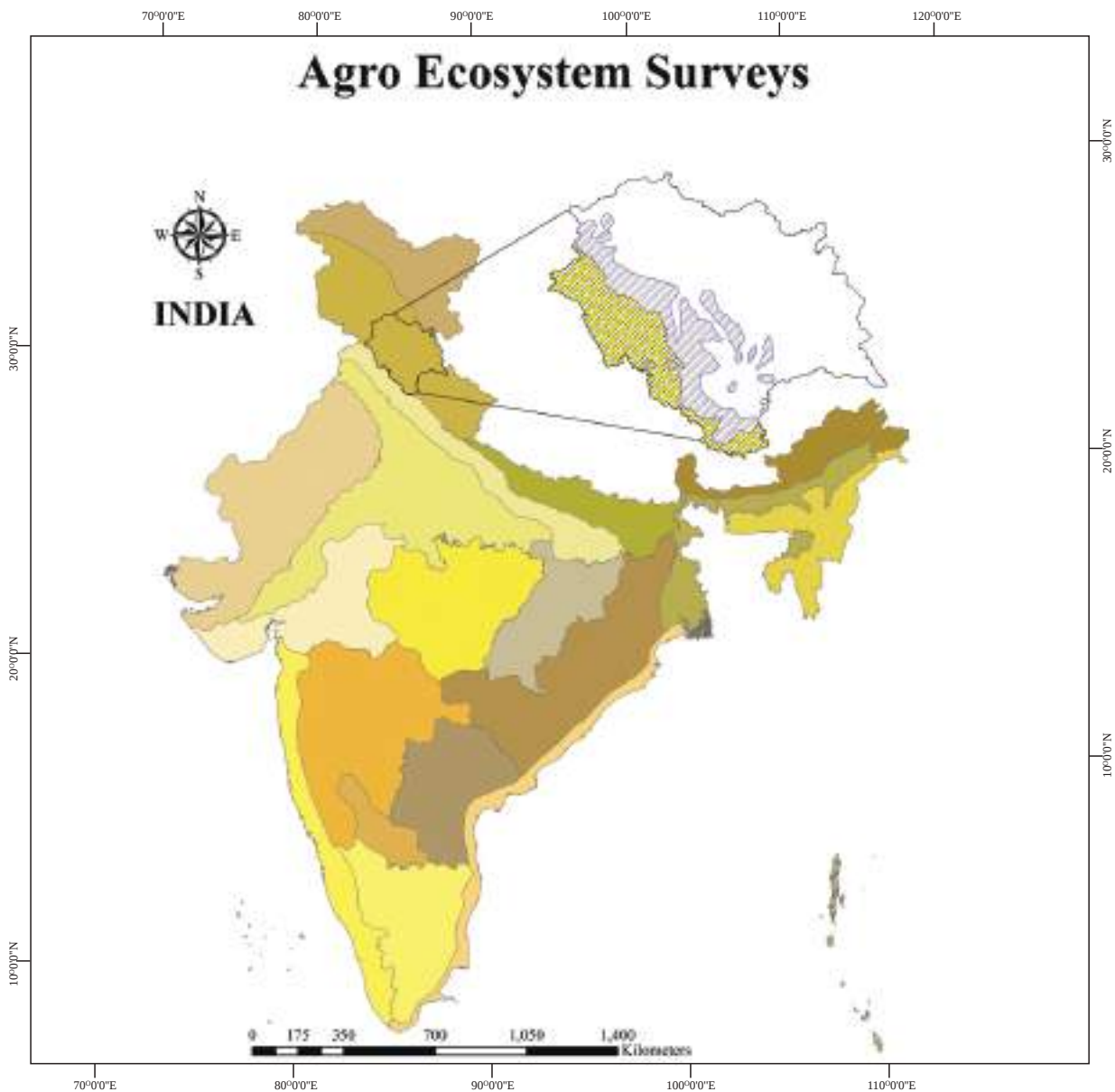
3) Himalayan Ecosystem – 5 Surveys

1. Dorylaimida of Central Himalaya (03 Surveys)
2. Faunal diversity of Lahaul Valley, district Lahaul & Spiti (H.P.) (01 Survey)
3. Exploring the subterranean biodiversity: Selected cave fauna of Meghalaya State (Phase-I, Khasi Hills) (01 Survey)



4) Agro Ecosystem – 4 Surveys

1. Invasive & pest whiteflies of agro-ecosystem of India (02 Surveys)
2. Faunal Diversity in Agro-ecosystem of Low Hills in Subtropical & Mid Hills in Sub Humid Zones of Himachal Pradesh (02 Surveys)



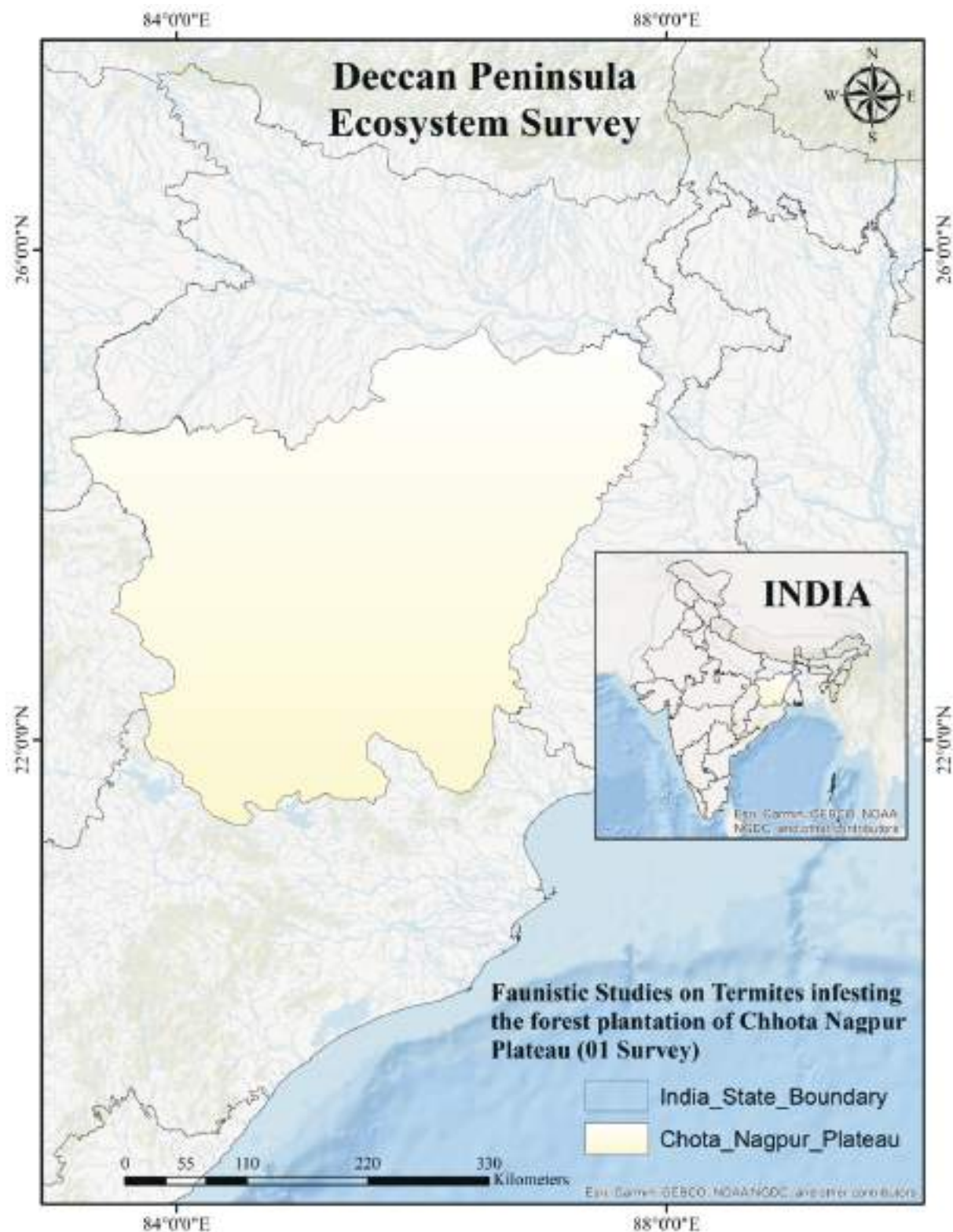
1. Invasive & pest whiteflies of agro-ecosystem of India (02 Surveys).
2. Faunal Diversity in Agro-ecosystem of Low Hills in Subtropical & Mid Hills in Sub Humid Zones of Himachal Pradesh (02 Surveys).

ASSAM AND BENGAL PLAIN
CENTRAL HIGHLANDS (MALAYA) (GULFARAT PLAIN AND KUTUBAHN PIRIBHULA)
CENTRAL HIGHLANDS (MALAYA) (BUNDALAPRAHAR)
DECCAN PLATEAU (TELANGANA) AND EASTERN GHATS
DECCAN PLATEAU
EASTERN COASTAL PLAIN
EASTERN GHATS AND TAMIL NADU UPLANDS AND DECCAN (KARNATAKA) PLATEAU
EASTERN HIMALAYAS
EASTERN PLAIN
EASTERN PLATEAU (CHHATTISGARH REGION)
EASTERN PLATEAU (CHHATTISGARH REGION)
ISLANDS OF ANDAMAN, NICOBAR, AND LAKSHADWEEP
KARNATAKA PLATEAU (KARNATAKA)
NORTH EASTERN HILLS (PUNJAB)
NORTHWEST PLAIN
NORTHWEST PLAIN AND CENTRAL HIGHLANDS INCLUDING ARUNACHAL
WESTERN GHATS AND COASTAL PLAIN
WESTERN HIMALAYAS
WESTERN HIMALAYAS, COOL AND DRY REGION
WESTERN PLAIN KACHH AND PART OF KACHHAR PIRIBHULA

Himachal Pradesh State Boundary
Mid Hills in Sub Humid Zones
Low Hills in Subtropical Zones

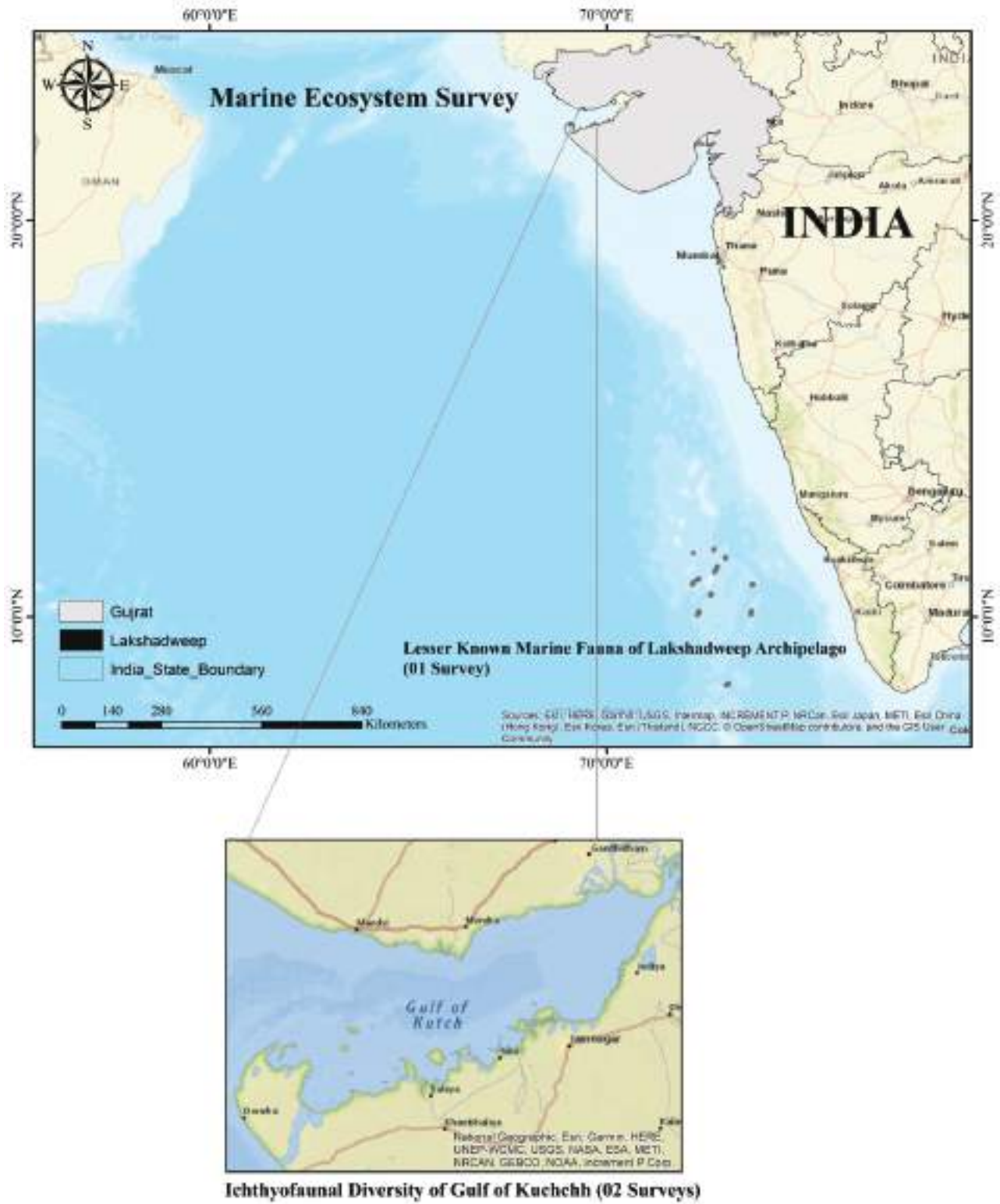
5) Deccan Peninsula Ecosystem – 1 Survey

1. Faunistic Studies on Termites infesting the forest plantation of Chhota Nagpur Plateau (01 Survey)



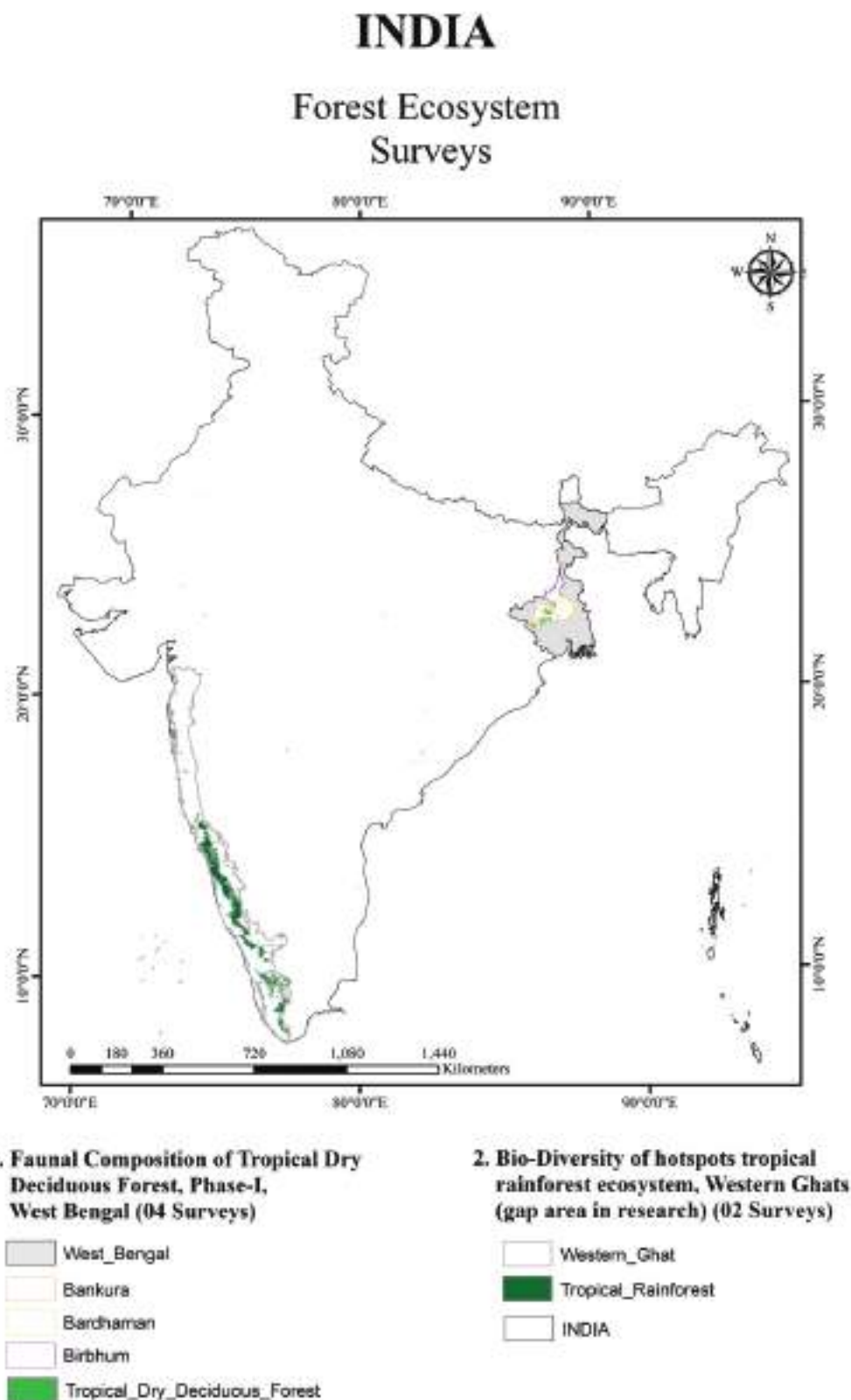
6) Marine Ecosystem – 3 Surveys

1. Ichthyofaunal Diversity of Gulf of Kuchchh (02 Surveys)
2. Lesser Known Marine Fauna of Lakshadweep Archipelago (01 Survey)



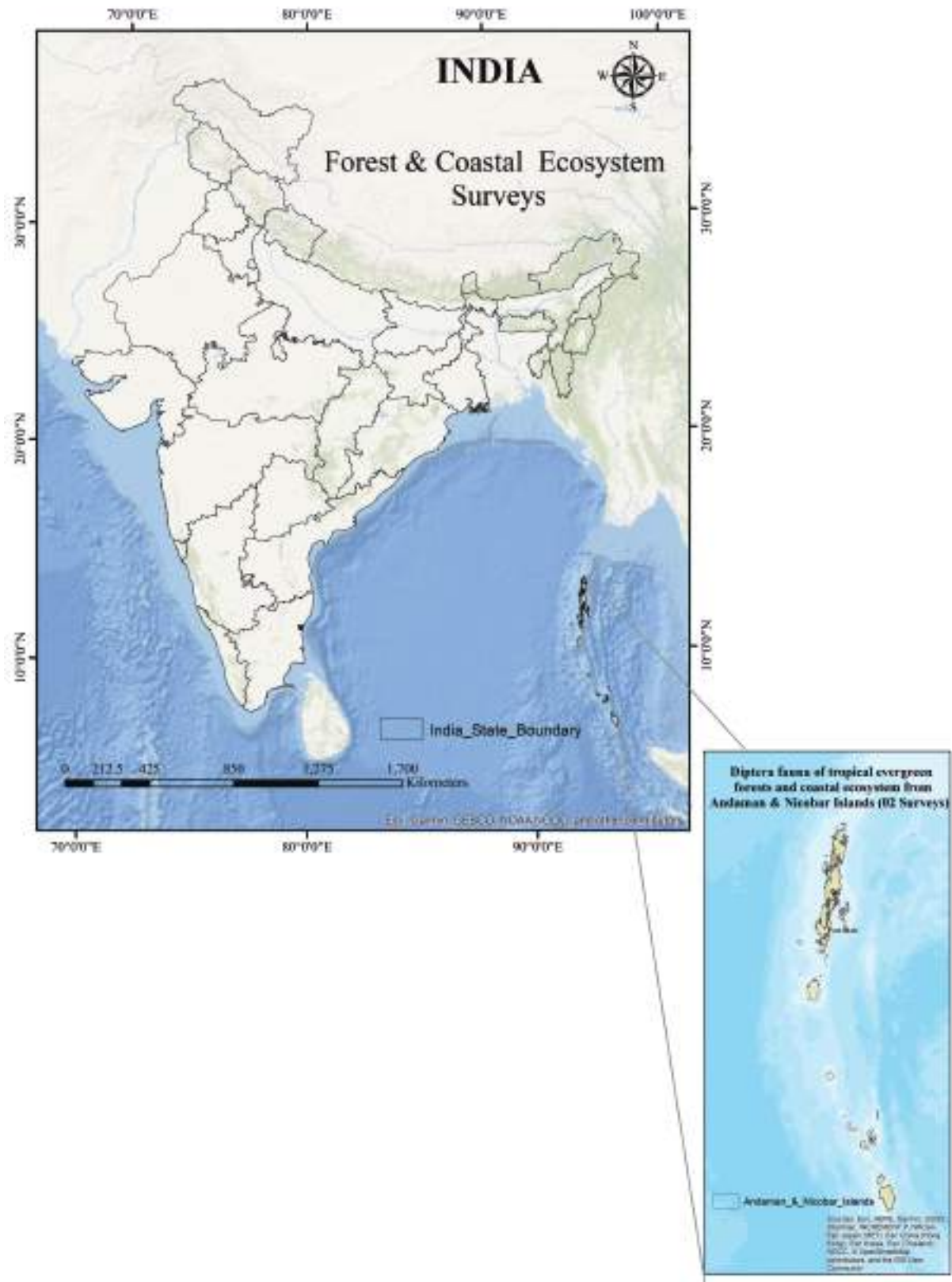
7) Forest Ecosystem – 6 Surveys

1. Faunal Composition of Tropical Dry Deciduous Forest, Phase-I, West Bengal (04 Surveys)
2. Bio-Diversity of hotspots tropical rainforest ecosystem, Western Ghats (gap area in research) (02 Surveys)



8) Forest & Coastal Ecosystem – 2 Surveys

1. Diptera fauna of tropical evergreen forests and coastal ecosystem from Andaman & Nicobar Islands (02 Surveys)



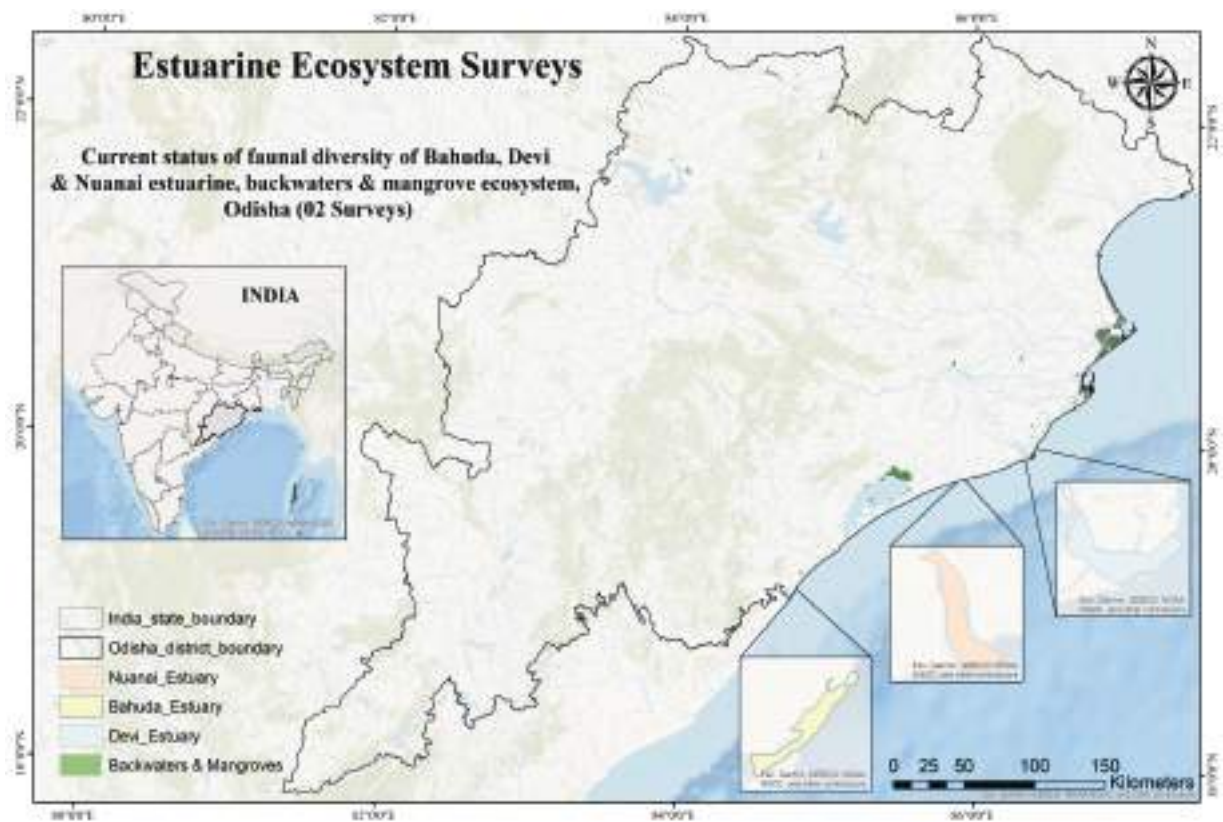
9) Protected Areas – 46 Surveys

1. Assessment of faunal communities of Balukand-Konark Wildlife Sanctuary, Odisha (02 Surveys)
2. Arthropod Diversity of Dihang-Dibang Biosphere Reserve, Arunachal Pradesh (02 Surveys)
3. Faunal Diversity of Kane WLS & Yordi-Rabe Subse WLS, Arunachal Pradesh (02 Surveys)
4. Documentation of faunal diversity of multiple WLS, North Andaman (02 Surveys)
5. Fauna of Parambikulam Tiger Reserve, Kerala (02 Surveys)
6. Studies on diversity of Mount Abu WLS, Rajasthan (02 Surveys)
7. Faunal Diversity of Kalsubai Harishchandragad WLS, Maharashtra (02 Surveys)
8. Faunal Diversity of Kinnersani & Pakhal WLS, Telangana (02 Surveys)
9. Faunal Diversity of Bhagwan Mahaveer Sanctuary & Mollem NP, Goa (02 Surveys)
10. Fauna of Sathyamangalam Tiger Reserve, Tamil Nadu (02 Surveys)
11. Faunal diversity of Bori WLS, Madhya Pradesh (02 Surveys)
12. Faunal diversity of Baraila Jheel, Salim Ali Bird Sanctuary & Bhimbandh WLS, Bihar (02 Surveys)
13. Faunal Diversity of Abohar WLS, Punjab (02 Surveys)
14. Faunal Diversity of Khol-Hi-Raitan (Morni Hills) WLS, Haryana (01 Survey)
15. Fauna of Kedarnath WLS, Uttarakhand (02 Surveys)
16. Faunal diversity of Panna Biosphere Reserve, Madhya Pradesh (01 Survey)
17. Studies on faunal diversity of Todgarh-Raoli WLS, Rajasthan (02 Surveys)
18. Fauna of Anamalai Tiger Reserve, Tamil Nadu (02 Surveys)
19. Faunal Diversity of Debru Saikhowa Biosphere Reserve, Assam (01 Survey)
20. Faunal Diversity of Daroji Sloth Bear Sanctuary, Karnataka (01 Survey)
21. Fauna of Wayanad WLS, Kerala (02 Surveys)
22. Faunal diversity of Kaimur WLS, Bihar (01 Survey)
23. Faunal diversity of Seshachalam Biosphere Reserve, Andhra Pradesh (02 Surveys)
24. Fauna of Gangotri NP, Uttarakhand (01 Survey)
25. Studies on faunal diversity of Gir NP & WLS, Gujarat (01 Survey)
26. Faunal Diversity of Kanwar Lake Bird Sanctuary & Nagi-Nakta Dam Bird Sanctuary, Bihar (01 Survey)
27. Faunistic survey tour to Periyar Tiger Reserve, Kerala (01 Survey)
28. Fauna of Kheoni WLS, Madhya Pradesh (01 Survey)



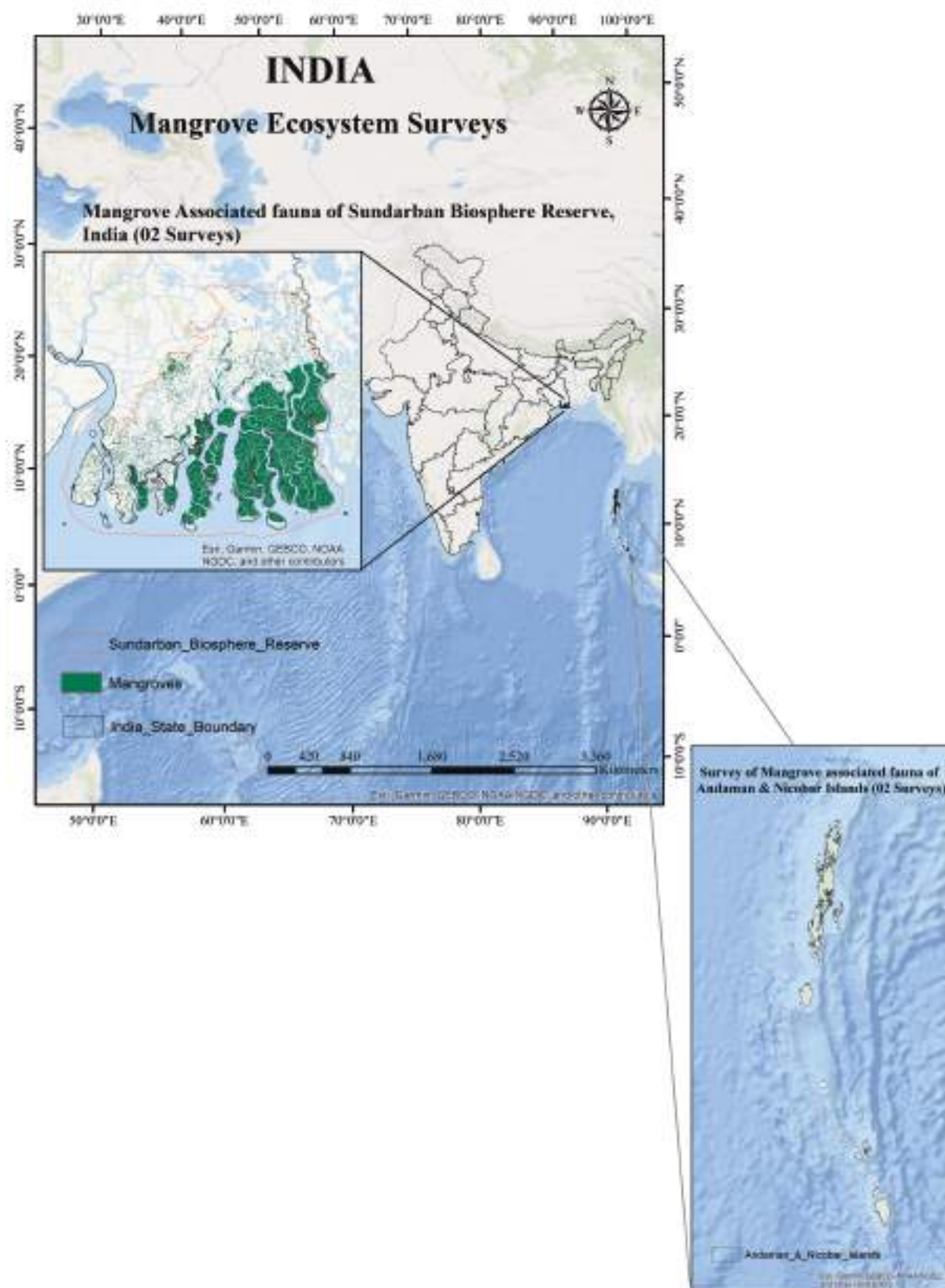
10) Estuarine Ecosystem – 2 Surveys

1. Current status of faunal diversity of Bahuda, Devi & Nuanai estuarine, backwaters & mangrove ecosystem, Odisha (02 Surveys)



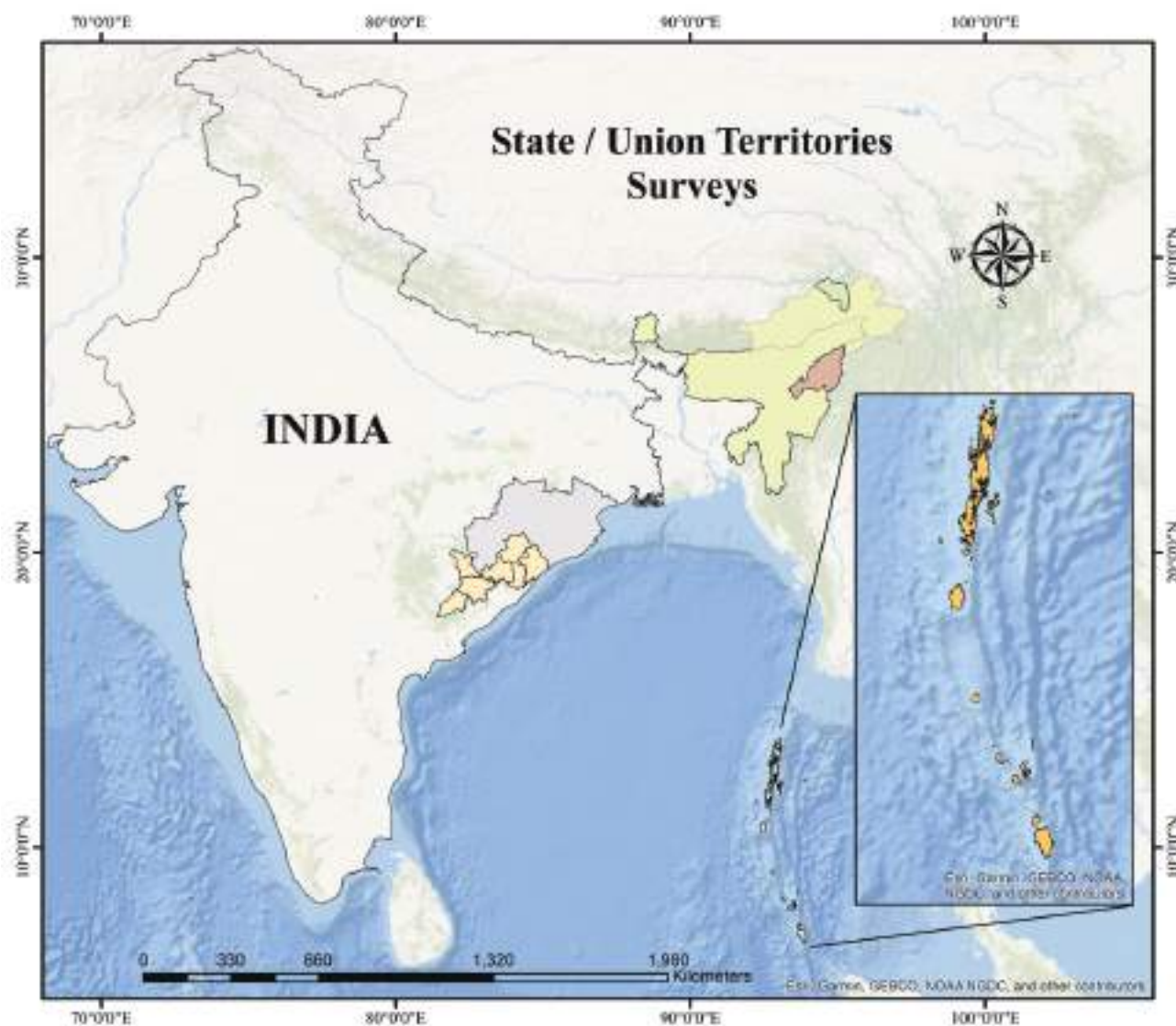
11) Mangrove Ecosystem – 4 Surveys

1. Mangrove Associated fauna of Sundarban Biosphere Reserve, India (02 Surveys)
2. Survey of Mangrove associated fauna of Andaman & Nicobar Islands (02 Surveys)



12) State / Union Territories Surveys – 9 Surveys

1. Fauna of Nagaland: Phase II (03 Surveys)
2. Faunal Diversity of the Upper Siang District of Arunachal Pradesh, North East India (02 Surveys)
3. Mosquito fauna of Southern Odisha (02 Surveys)
4. Studies on Sea Birds of Andaman & Nicobar Islands (02 Surveys)



1. Fauna of Nagaland: Phase II (03 Surveys)

Nagaland

2. Faunal Diversity of the Upper Siang District of Arunachal Pradesh, North East India (02 Surveys)

Upper_Siang
Arunachal_Pradesh
North_East_India

3. Mosquito fauna of Southern Odisha (02 Surveys)

Southern_Odisha_States
Odisha

4. Studies on Sea Birds of Andaman & Nicobar Islands (02 Surveys)

Andaman_&_Nicobar_Islands
India_Boundary



05

New Discoveries

During the year 2024, a total of 257 new faunal discoveries were published by the scientists of the Zoological Survey of India (ZSI), comprising 147 new species and 110 new records to Indian fauna. The newly described species include: 2 species of Reptilia, 3 of Amphibia, 16 of Pisces, 2 of Mollusca, 1 of Bryozoa, 1 of Chilopoda, 4 of Collembola, 3 of Diptera, 21 of Lepidoptera, 3 of Coleoptera, 34 of Hymenoptera, 5 of Hemiptera, 1 of Trichoptera, 2 of Mantodea, 34 of Crustacea, 7 of Arachnida, 3 of Annelida, 2 of Platyhelminthes, 1 of Cnidaria, and 1 of Protozoa.

The 110 new records to Indian fauna comprise: 1 species of Reptilia, 2 of Amphibia, 3 of Pisces, 3 of Mollusca, 6 of Diptera, 27 of Lepidoptera, 2 of Trichoptera, 21 of Hymenoptera, 4 of Hemiptera, 3 of Thysanoptera, and 1 each of Orthoptera, Mantodea, Blattodea, Ephemeroptera, and Neuroptera. Additionally, 10 species of Collembola, 1 of Crustacea, 9 of Arachnida, 1 of Annelida, 4 of Nematoda, 2 of Rotifera, 5 of Cnidaria, and 1 of Protozoa were also reported as new records. The newly described species and records were documented from over 25 States and Union Territories, representing a wide range of mainland and island ecosystems.

Details of these discoveries by ZSI scientists and collaborators from various institutes and colleges are published annually in the book "*Animal Discoveries*", which is available on the ZSI website (zsi.gov.in).



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List of the new species described by ZSI during 2024

Taxa	District	State/UT
REPTILIA		
1. <i>Agasthyagama edge</i> Das et al., 2024	Idukki	Kerala
2. <i>Ahaetulla longirostris</i> Mirza et al., 2024	West Chaparan	Bihar
AMPHIBIA		
1. <i>Phrynoderma konkani</i> Yadav et al., 2024	Sindhudurg	Maharastra
2. <i>Sphaerotheca varshaabhu</i> Deepak et al., 2024	Bengaluru	Karnataka
3. <i>Xenophrys apatani</i> Saikia et al., 2024	Lower Subansiri	Arunachal Pradesh
PISCES		
1. <i>Ariosoma gracile</i> Kodeeswaran et al., 2024	Kalamukku	Kerala
2. <i>Ariosoma kannani</i> Kodeeswaran et al., 2024	Gulf of mannar	Tamil nadu
3. <i>Ariosoma thoothukudiense</i> Kodeeswaran et al., 2024	Thoothukudi	Tamil nadu
4. <i>Exostoma sentiyonoae</i> Shangningam & Limatemjen, 2024	Kohima	Nagaland
5. <i>Garra magnarostrum</i> Singh et al., 2024	Papum Pare	Arunachal Pradesh
6. <i>Garra zubzaensis</i> Tenali et al., 2024	Kohima	Nagaland
7. <i>Glyptothorax chakpiensis</i> Shangningam & Kosygin, 2024	Chandel	Manipur
8. <i>Glyptothorax hymavatiae</i> Tenali et al., 2024	Kameng	Arunachal Pradesh
9. <i>Glyptothorax pongoensis</i> Singh et al., 2024	Longleng	Nagaland
10. <i>Glyptothorax zeiladensis</i> Shangningam et al., 2024	Tamenglong	Manipur
11. <i>Indoreonectes amrabad</i> Jadhav et al., 2024	Nagarkurnool	Telengana
12. <i>Indoreonectes kalsubai</i> Jadhav et al., 2024	Ahmadnagar	Maharashtra
13. <i>Indoreonectes radhanagari</i> Jadhav et al., 2024	Kolhapur	Maharashtra
14. <i>Ophichthus suryai</i> Behera et al., 2024	Talasari	Odisha
15. <i>Opsarius mujnaiensis</i> Chowdhury et al., 2024	Alipurduar	West Bengal
16. <i>Squalus hima</i> Sweta & Bineesh, 2024	Kollam	Kerala
MOLLUSCA		
1. <i>Melanochlamys droupadi</i> Tudu & Sajan, 2024	Purba Medinipur	West Bengal
2. <i>Turbonilla devakiae</i> Kumar et al., 2024	Gulf of Mannar	Tamil nadu
BRYOZOA		

1. <i>Mucropetraliella stemmatum</i> Sanjay et al., 2024	Gulf of Mannar	Tamil nadu
CHILOPODA		
1. <i>Otostigmus (Otostigmus) coorgensis</i> Kashmeera & Sureshan, 2024	Chikkamagaluru	Karnataka
COLLEMBOLA		
1. <i>Oudemansia dhritiae</i> Mandal et al., 2024	Kattupallikad	Lakshadweep
2. <i>Tomocerus (s. str.) sikkimensis</i> Mandal et al., 2024	Gangtok	Sikkim
3. <i>Willowsia arunachalensis</i> Mandal et al., 2024	West Kameng	Arunachal Pradesh
4. <i>Willowsia sikkimensis</i> Mandal et al., 2024	North Sikkim	Sikkim
DIPTERA		
1. <i>Solva andamanensis</i> Pramanik, Naskar & Banerjee, 2024	North & Middle Andaman	Andaman & Nicobar Island
2. <i>Polypedilum (Tripodura) prolixus</i> Mukherjee et al., 2024	Kalingpong	West Bengal
3. <i>Lasioptera sharma</i> Vasanthakumar, 2024	Mollem	Goa
LEPIDOPTERA		
1. <i>Arctelene brevisvalva</i> Singh et al., 2024	Ponda	Goa
2. <i>Arctelene rajbanshi</i> Singh et al., 2024	Alipurduar	West Bengal
3. <i>Aroriella gobardhani</i> Ahmad et al., 2024	West Champaran	Bihar
4. <i>Chrysorabdia falsaviridata</i> Singh et al., 2024	Kalimpong	West Bengal
5. <i>Denteilema nyishi</i> Singh et al., 2024	Kawrthah	Mizoram
6. <i>Dolgoma hampsoni</i> Singh et al., 2024	Lower Subansiri	Arunachal Pradesh
7. <i>Lakshmia narayani</i> Singh et al., 2024	Aizwal	Mizoram
8. <i>Hypolamprus langualis</i> Katewa & Pathania, 2024	Palakkad	Kerala
9. <i>Hypolamprus neostriatalis</i> Katewa & Pathania, 2024	Idukki, Palakkad	Kerala
10. <i>Lemyra (Thyrgorina) adunca</i> Singh et al., 2024	Kalimpong	West Bengal
11. <i>Lemyra (Thyrgorina) apatani</i> Singh et al., 2024	Lower Subansiri	Arunachal Pradesh
12. <i>Lemyra (Thyrgorina) densimacula</i> Singh et al., 2024	Kohima	Nagaland
13. <i>Lemyra (Thyrgorina) fortiorispina</i> Singh et al., 2024	Tawang	Arunachal Pradesh

14. <i>Lemyra (Thyrgorina) obsoleta</i> Singh, Raha, Kirti & Singh, 2024	East Khasi hills	Meghalaya
15. <i>Lemyra (Thyrgorina) pinus</i> Singh, Raha, Kirti & Singh, 2024	Lower Subansiri	Arunachal Pradesh
16. <i>Lemyra (Thyrgorina) rubripecta</i> Singh, Raha, Kirti & Singh, 2024	Lower Subansiri	Arunachal Pradesh
17. <i>Miltochrista coonoorensis</i> Singh et al., 2024	Coonoor	Tamil Nadu
18. <i>Miltochrista terrarega</i> Singh et al., 2024	Jaipur	Rajasthan
19. <i>Orthocraspeda dudgeoni</i> Ahmad et al., 2024	Kangra	Himachal Pradesh
20. <i>Pangora keralaensis</i> Abhilash & Adarsh, 2024	Kottayam	Kerala
21. <i>Suhela cuneus</i> Rao et al., 2024	North & Middle Andaman	Andaman & Nicobar Island
COLEOPTERA		
1. <i>Carpophilus (Ecnomorphus) dhrutibanerjeeae</i> Dasgupta, 2024	Tirap	Arunachal Pradesh
2. <i>Omorgus (Afromorgus) moreshwar</i> Kalawate & Strümpher, 2024	Pune	Maharashtra
3. <i>Rhopalobates pali</i> Hegde et al., 2024	Changlang	Arunachal Pradesh
HYMENOPTERA		
1. <i>Ammoplanellus keralaensis</i> Tessy, et al., 2024	Kannur	Kerala
2. <i>Ammoplanellus smithi</i> Tessy et al., 2024	Bikaner	Rajasthan
3. <i>Arpactophilus pulawskii</i> Amal & Girish Kumar, 2024	Khuzama	Nagaland
4. <i>Brachystegus madhavani</i> Amal et al., 2024	South 24 Parganas	West Bengal
5. <i>Baeosega kimseyae</i> Binoy et al., 2024	Palakkad	Kerala
6. <i>Baeosega krombeini</i> Binoy et al., 2024	Thiruvananthapuram	Kerala
7. <i>Calotelea acuta</i> Rajmohana & Debnath, 2024	Coorg	Karnataka
8. <i>Calotelea chitraka</i> Rajmohana & Debnath, 2024	Chamarajanagar	Karnataka
9. <i>Calotelea foveata</i> Rajmohana & Debnath, 2024	Konnakkad	Kerala
10. <i>Calotelea fulva</i> Rajmohana & Debnath, 2024	Coorg	Karnataka
11. <i>Cephalotilla (Cephalotilla) manikandani</i> Terine et al., 2024	Malappuram	Kerala
12. <i>Ceraphron initium</i> Ghosh et al., 2024	Zunheboto	Nagaland

13. <i>Dasyproctus yesudasi</i> Binoy & Kumar, 2024	Kannur	Kerala
14. <i>Episyron keralaensis</i> Anju et al., 2024	Wayanad	Kerala
15. <i>Episyron nigrocalcarius</i> Anju et al., 2024	Wayanad	Kerala
16. <i>Episyron rufotibius</i> Anju et al., 2024	Kasaragod	Kerala
17. <i>Idris bharati</i> Debnath & Rajmohana, 2024	East Midnapore	West Bengal
18. <i>Idris hirsutus</i> Sunita & Rajmohana, 2024	Sambalpur	Odisha
19. <i>Indopria angulata</i> Theertha & Rajmohana, 2024	North & Middle	Andaman & Nicobar
20. <i>Miscophus prasanthi</i> Girish Kumar, 2024	Andaman	Island
21. <i>Miscophus kaleshi</i> Girish Kumar, 2024	Coimbatore	Tamil Nadu
22. <i>Odontomutilla himalayensis</i> Terine & Girish Kumar, 2024	Kozhikode	Kerala
23. <i>Odontomutilla jaferpaloti</i> Terine & Girish Kumar, 2024	Dehradun	Uttarakhand
24. <i>Odontomutilla vishwanathi</i> Terine & Girish Kumar, 2024	Chitradurga	Karnataka
25. <i>Osmia (Pyrosmia) muelleri</i> Rameshkumar & Sardar, 2024	Shimoga	Karnataka
26. <i>Parastephanellus binoyi</i> Amal et al., 2024	Dehradun	Uttarakhand
27. <i>Polemistus jaferi</i> Tessy et al., 2024	Palakkad	Kerala
28. <i>Promicrogaster constricta</i> Ranjith & Fernandez-Triana, 2024	Thiruvananthapuram	Kerala
29. <i>Promicrogaster flava</i> Ranjith & Fernandez-Triana, 2024	East Siang	Arunachal Pradesh
30. <i>Promicrogaster incompleta</i> Ranjith & Fernandez-Triana, 2024	South 24 Parganas	West Bengal
31. <i>Stenomalina kasaragodensis</i> Surya & Sureshan, 2024	East Siang	Arunachal Pradesh
32. <i>Stictomischus sahyadriensis</i> Surya & Sureshan, 2024	Kasaragod	Kerala
33. <i>Telenomus gregalis</i> Rajmohana, 2024	Pathanamthitta	Kerala
34. <i>Tiphia (Tiphia) andhraensis</i> Hanima & Girish Kumar, 2024	Kozhikode	Kerala
	Vishakhapatnam	Andhra Pradesh

HEMIPTERA		
1. <i>Becquartina bicolor</i> Sarkar et al., 2024	Garo hills	Meghalaya
2. <i>Cerafilum ochlandrae</i> Dubey, 2024	Kozhikode	Kerala
3. <i>Cerafilum saddlense</i> Dubey, 2024	North & Middle Andaman	Andaman & Nicobar Islands
4. <i>Praetextatus indicus</i> Jahan, Kumar & Kushwaha, 2024	Chamoli	Uttarakhand
5. <i>Xenobates indicus</i> Jehamalar et al., 2024	Vellar Cuddalore	Tamil Nadu
TRICHOPTERA		
1. <i>Rhyacophila masudi</i> Ali et al., 2024	Poonch	Jammu & Kashmir
MANTODEA		
1. <i>Acromantis loboformata</i> Kamila & Sureshan, 2024	Palakkad	Kerala
2. <i>Didymocorypha wayanadensis</i> Kamila & Sureshan, 2024	Wayanad	Kerala
CRUSTACEA		
1. <i>Alcomon rotungense</i> Mitra & Khamo, 2024	East Siang	Arunachal Pradesh
2. <i>Alcomon siangense</i> Mitra & Khamo, 2024	Upper Siang	Arunachal Pradesh
3. <i>Capitamon capitatum</i> Pati et al., 2024	Tuensang	Nagaland
4. <i>Capitamon clarki</i> Pati et al., 2024	-	Nagaland
5. <i>Capitamon meitei</i> Pati et al., 2024	Thoubal	Manipur
6. <i>Capitamon mizoramense</i> Pati et al., 2024	Champhai	Mizoram
7. <i>Chilikorchesta chiltoni</i> Thacker et al., 2024	Ganjam	Odisha
8. <i>Chopramon sinhai</i> Mitra & Khamo, 2024	East Siang	Arunachal Pradesh
9. <i>Ghatiana dvirupa</i> Pati et al., 2024	Uttara Kannada	Karnataka
10. <i>Grandidierella rabindranathi</i> Thacker et al., 2024	Ganjam	Odisha
11. <i>Himalayapotamon jammuense</i> Kour et al., 2024	Poonch	Jammu & Kashmir
12. <i>Himalayapotamon jorethangense</i> Mitra & Khamo, 2024	South Sikkim	Sikkim
13. <i>Himalayapotamon kumaunense</i> Mitra & Khamo, 2024	Nainital	Uttarakhand

14. <i>Himalayapotamon valmiki</i> Mitra & Khamo, 2024	Champaran	Bihar
15. <i>Ichthyoxenos aneeshi</i> Mitra & Chowdhury, 2024	East Burdwan	West Bengal
16. <i>Indochinamon dampense</i> Mitra & Khamo, 2024	Mamit	Mizoram
17. <i>Indomiscus azadi</i> Mitra & Khamo, 2024	Kohima	Nagaland
18. <i>Indomiscus pfutsero</i> Mitra & Khamo, 2024	Phek	Nagaland
19. <i>Kaushikmon tuttingense</i> Mitra & Khamo, 2024	Upper Siang	Arunachal Pradesh
20. <i>Montusamon tawangense</i> Mitra & Khamo, 2024	Tawang	Arunachal Pradesh
21. <i>Nagamon kohima</i> Mitra & Khamo, 2024	Kohima	Nagaland
22. <i>Nagamon melluri</i> Mitra & Khamo, 2024	Phek	Nagaland
23. <i>Parhyale kalinga</i> Thacker et al., 2024	Ganjam	Odisha
24. <i>Periclimenes pitti</i> Prakash & Marimuthu, 2024	Kavaratti	Lakshadweep
25. <i>Potamiscus noadihing</i> Mitra & Khamo, 2024	Changlang	Arunachal Pradesh
26. <i>Potamiscus chessore</i> Mitra & Khamo, 2024	Tuensang	Nagaland
27. <i>Potamiscus mizoramensis</i> Mitra & Khamo, 2024	Aizwal	Mizoram
28. <i>Potamiscus nagalandi</i> Mitra & Khamo, 2024	Kohima	Nagaland
29. <i>Punctiomon brandisi</i> Mitra & Khamo, 2024	Darjeeling	West Bengal
30. <i>Punctiomon naga</i> Mitra & Khamo, 2024	Tuensang	Nagaland
31. <i>Raphidopus dhrithiae</i> Mitra et al., 2024	South 24 Parganas	West Bengal
32. <i>Teretamon mon</i> Mitra & Khamo, 2024	Mon	Nagaland
33. <i>Teretamon roingi</i> Mitra & Khamo, 2024	Lower Dibang	Arunachal Pradesh
34. <i>Vellusamon uttarakhandi</i> Mitra & Khamo, 2024	Champawat	Uttarakhand

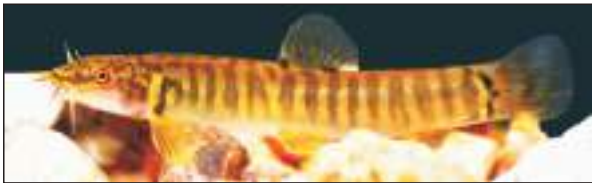
ARACHNIDA		
1. <i>Geogaranya valiyaensis</i> Agnihotri et al., 2024	Cambay Basin	Gujrat
2. <i>Mimetus parvulus</i> Sankaran et al., 2024	Ernakulam	Kerala
3. <i>Mimetus spinatus</i> Sudhin et al., 2024	Shimoga	Karnataka
4. <i>Phintella dentis</i> Sudhin et al., 2024	Shimoga	Karnataka
5. <i>Phintella handersoni</i> Sen et al., 2024	Ri bhoi	Meghalaya
6. <i>Phintella luna</i> Sudhin et al., 2024	East Godavari	Andhra Pradesh
7. <i>Phintella rajbharathi</i> Caleb et al., 2024	Coimbatore	Tamil Nadu
ANNELIDA		
1. <i>Haemadipsa gopali</i> Mandal et al., 2024	Kohima	Nagaland
2. <i>Haemadipsa sukhendui</i> Mandal et al., 2024	Itanagar	Arunachal Pradesh
3. <i>Poecilobdella sukhendui</i> Mandal et al., 2024	Dhalai	Tripura
PLATYHELMINTHES		
1. <i>Paraplanocera kalpeniensis</i> Dixit & Sreeraj, 2024	Lakshadweep	Lakshadweep
2. <i>Pseudoceros bifascia</i> Dixit & Sreeraj, 2024	Lakshadweep	Lakshadweep
CNIDARIA		
1. <i>Lobophytum andamanensis</i> Rajendra & Raghunathan, 2024	North Andaman Island	Andaman & Nicobar Island
PROTOZOA		
1. <i>Microdileptus indica</i> Ghosh et al., 2024	Ludhiana	Punjab



Agasthyagama edge Das et al., 2024



Sphaerotheca varshaabhu Deepak et al., 2024



Indoreonectes radhanagari Jadhav et al., 2024



Chopramon sinhai Mitra & Khamo, 2024



Poecilobdella sukhendui Mandal et al., 2024



Baeosega kimseyae Binoy, Mita & Girish Kumar, 2024



Grandidierella rabindranathi Thacker et al., 2024



Acromantis lobofemorata Kamila & Sureshan, 2024



Pseudoceros bifascia Dixit & Sreeraj, 2024



Oudemansia dhritiae Mandal et al., 2024

List of New Records to India

Taxa	District	State/UT
REPTILIA		
1. <i>Lankascincus fallax</i> (Peters, 1860)	Alappuzha	Kerala
AMPHIBIA		
1. <i>Hylarana gracilis</i> (Gravenhorst, 1829)	Chittoor	Andhra Pradesh
2. <i>Pseudophilautus regius</i> (Manamendra Arachchi & Pethiyagoda, 2005)	Chittoor	Andhra Pradesh
PISCES		
1. <i>Scymnodon ichiharai</i> Yano and Tanaka, 1984	South Andaman	Andaman & Nicobar Islands
2. <i>Bleekeria nigrilinea</i> Psomadakis et al., 2021	Purba Medinipur	West Bengal
3. <i>Ctenotrypauchen chinensis</i> Steindachner, 1867	Kakinada	Andhra Pradesh
MOLLUSCA		
1. <i>Bathytormus acuminatus</i> (Kobelt, 1885)	Vishakhapatnam	Andhra Pradesh
2. <i>Pyrgiscus optivus</i> (Nomura, 1937)	Thoothukudi	Tamil Nadu
3. <i>Turbonilla clessiniana</i> Nomura, 1938	Rameshwaram	Tamil Nadu
DIPTERA		
1. <i>Microchironomus deribae</i> (Freeman, 1957)	Kutch	Gujrat
2. <i>Paragus atratus</i> Meijere, 1906	Great Nicobar island	Andaman & Nicobar islands
3. <i>Rivellia basilaris</i> (Wiedemann, 1830)	South Andaman	Andaman & Nicobar islands
4. <i>Scholastes cinctus</i> (Guérin, 1831)	Great Nicobar island	Andaman & Nicobar islands
5. <i>Scholastes sexvittatus</i> (Walker, 1861)	South Andaman	Andaman & Nicobar islands
6. <i>Solva javana</i> (Meijere, 1907)	North & Middle Andaman	Andaman & Nicobar islands

LEPIDOPTERA		
1. <i>Agrotera longitabulata</i> Chen et al., 2017	North Andaman	Andaman & Nicobar islands
2. <i>Artaxa kanshireia</i> (Wileman, 1910)	Champhai & Dibang	Mizoram & Arunachal Pradesh
3. <i>Bradina geminalis</i> Caradja, 1927	Little Nicobar	Andaman & Nicobar islands
4. <i>Chrysorabdia aurea</i> Kishida, 2018	Khasi	Meghalaya
5. <i>Edosa truncatula</i> Yang, Wang & Li, 2014	North Dinajpur, Gaya	West Bengal, Bihar
6. <i>Ericeia sobria</i> Walker, (1858)	Raigad & Baleshwar	Maharashtra & Odisha
7. <i>Eudocima srivijayana</i> (Banziger, 1985)	Aligarh	Uttar Pradesh
8. <i>Euproctis cryptosticta</i> Collenette, 1934	Alipurduar	West Bengal
9. <i>Haritalodes annuligeralis</i> (Walker, 1866)	Great Nicobar	Andaman & Nicobar Islands
10. <i>Hypolamprus angulalis</i> Moore	Uttar Kannada	Karnataka
11. <i>Katha pseudobrevivalva</i> Dubatolov & Bucsek, 2016	Mamit	Mizoram
12. <i>Lemyra</i> (<i>Thyrgorina</i>) <i>persephone</i> Saldaitis et al., 2020	Pithorgarh, W. Sikkim	Uttarakhand, Sikkim
13. <i>Lemyra</i> (<i>Thyrgorina</i>) <i>aurantiaca</i> (Fang, 1985)	Lower Subansiri	Arunachal Pradesh
14. <i>Lemyra</i> (<i>Thyrgorina</i>) <i>kaikarisi</i> Saldaitis et al., 2019	Phek	Nagaland
15. <i>Lista furciillatusa</i> Wang et al., 2019	Mamit	Mizoram
16. <i>Lista monticola</i> Yamanaka, 2000	Mamit North Sikkim	Mizoram, Sikkim
17. <i>Miltochrista aquila</i> (Cerny in Cerny & Pinratana, 2009)	Champhai, Okha	Mizoram, Nagaland
18. <i>Miltochrista kravchenkoi</i> Volynkin, et al., 2022	Aizwal	Mizoram
19. <i>Miltochrista weidenhofferi</i> (Cerny, 2012)	Jammu, Mamit	Jammu & Kashmir, Mizoram

20. <i>Narosa erminea</i> Hampson, 1895 21. <i>Nygmia ganesa</i> Kishida, 2020 22. <i>Nygmia hanuman</i> Kishida, 2020 23. <i>Orphanostigma angustale</i> Hampson, 1893 24. <i>Teinoloba perspicillata</i> Yazaki, 1995 25. <i>Thespea althea</i> Solovyev, 2014 26. <i>Thronia xizangensis</i> (Wu & Fang, 2009) 27. <i>Tridrepana obscura</i> Watson, 1957	Khordha, Serchhip Lower Subansiri Chirang & Baksa North & Middle Andaman North Andaman Kalingpong East Sikkim Great Nicobar Island	Odisha, Mizoram Arunachal Pradesh Assam Andaman & Nicobar island Arunachal Pradesh West Bengal Sikkim Andaman & Nicobar island
TRICHOPTERA		
1. <i>Chimarra actinifera</i> Schmid, 1958 2. <i>Chimarra godagama</i> Schmid, 1958	Erode Erode	Tamil Nadu Tamil Nadu
HYMENOPTERA		
1. <i>Austronomia goniognatha</i> (Cockerell, 1919) 2. <i>Austronomia takauensis</i> (Fries, 1910) 3. <i>Bombus cryptarum</i> (Fabricius, 1775) 4. <i>Calyptomyrmex friederikae</i> Kutter 1976 5. <i>Coelioxys (Melissoctonia) conoideus</i> (Illiger, 1806) 6. <i>Coelioxys (Rozeniana) rufescens</i> Lepelletier & Serville, 1825 7. <i>Ctenoplectra cornuta</i> Gribodo, 1891 8. <i>Ctenoplectra davidi</i> Vachal, 1903 9. <i>Dolichoderus brevis</i> Santschi, 1920 10. <i>Krombeinidia albopunctata</i> (Andre, 1907) 11. <i>Lycogaster rufiventris</i> (Magretti, 1897) 12. <i>Megachile (Chalicodoma) creutzburgi</i> (Tkalcu, 2009)	Cooch Behar Cooch Behar Leh Alipurduar Kargil Kargil, Leh Lower Dibang valley Alipurduar, Dibang Jalpaiguri Shimoga East Garo hills Leh	West Bengal West Bengal Ladakh West Bengal Ladakh Ladakh Arunachal Pradesh West Bengal, AP West Bengal Karnataka Meghalaya Ladakh

13. <i>Megachile (Eutricharaea) leachella</i> Curtis, 1828	Leh	Ladakh
14. <i>Megachile (Xanthosarus) lagopoda</i> (Linnaeus, 1761)	Kargil	Ladakh
15. <i>Megachile (Xanthosarus) maritima</i> (Kirby, 1802)	Leh	Ladakh
16. <i>Polemistus fukuitor</i> Tsuneki, 1992	Idukki	Kerala
17. <i>Polemistus sumatrensis</i> (Maidl, 1925)	Wayanad	Kerala
18. <i>Polemistus tridentatus</i> Tsuneki, 1992	Thrissur	Kerala
19. <i>Stellis (Stelis) scutellaris</i> Morawitz, 1894	Leh	Ladakh
20. <i>Taeniogonalos taihorina</i> (Bischoff, 1914)	Kohima	Nagaland
21. <i>Tetramorium curtulum</i> Emery, 1895	Alipurduar	West Bengal
HEMIPTERA		
1. <i>Aleuroclava bifurcata</i> (Corbett, 1935)	Great Nicobar island	Andaman & Nicobar island
2. <i>Paracopium lewisi</i> Distant, 1903	Eluru	Andhra Pradesh
3. <i>Ranatra cardamomensis</i> Zettel et al., 2017	Guntur	Andhra Pradesh
4. <i>Sigara striata</i> (Linnaeus, 1758)	Eluru	Andhra Pradesh
THYSANOPTERA		
1. <i>Bolothrips denticeps</i> (Reuter, 1880)	Srinagar	Jammu & Kashmir
2. <i>Cephalothrips monilicornis</i> Uzel, 1895	Srinagar	Jammu & Kashmir
3. <i>Thrips wedeliae</i> (Priesner)	Dehradun	Uttarakhand
ORTHOPTERA		
1. <i>Oxytauchira aurora</i> Brunner von Wattenwyl, 1893	Kohima	Nagaland
MANTODEA		
1. <i>Tricondylomimus coomani</i> Chopard, 1930	Changlang	Arunachal Pradesh
BLATTODEA		
1. <i>Euthyrrhapha pacifica</i> (Coquebert, 1804)	Belagavi	Karnataka

EPHEMEROPTERA		
1. <i>Rhoenanthus (Potamanthindus) sapa</i> Nguyen & Bae, 2004	East Khasi hills	Meghalaya
NEUROPTERA		
1. <i>Necyla formosana</i> Okamoto (1910)	North & Middle Andaman	Andaman & Nicobar island
COLLEMBOLA		
1. <i>Dicranocentrus nepalensis</i> Mari Mutt & Bhattacharjee, 1980	South Sikkim	Sikkim
2. <i>Isotomurus plumosus</i> Bagnall, 1940	West Kameng	Arunachal Pradesh
3. <i>Isotomurus pseudopalustris</i> Carapelli, et al., 2001	West Kameng	Arunachal Pradesh
4. <i>Sminthurinus bimaculatus</i> Axelson, 1902	Tawang	Arunachal Pradesh
5. <i>Sphyrotheca multifasciata</i> (Reuter, 1881)	Cooch Behar	West Bengal
6. <i>Tomocerus (Ocreatomurus)</i> <i>paraspinus</i> Gong et al., 2018	Darjeeling	West Bengal
7. <i>Tomocerus (Ocreatomurus) qinae</i> Yu et al., 2016	Tawang	Arunachal Pradesh
8. <i>Tomocerus (Tomocerus) minor</i> (Lubbock, 1862)	Darjeeling	West Bengal
9. <i>Willowsia jacobsoni</i> (Borner, 1913)	Alipurduar	West Bengal
10. <i>Willowsia shiae</i> Pan et al., 2006	West kameng	Arunachal Pradesh
CRUSTACEA		
1. <i>Laomenes tigris</i> Marin, 2009	Agatti island	Lakshadweep
ARACHNIDA		
1. <i>Cheiracanthium iranikum</i> Esyunin & Zamani, 2020	Birbhum	West Bengal
2. <i>Cosmolaelaps busolii</i> (Moreira, Klompen & Moraes, 2014)	Siraha	Jharkhand
3. <i>Hypoaspis (Gaeolaelaps) blattae</i> Faraji & Halliday, 2009	Latehar	Jharkhand
4. <i>Pardosa tuberosa</i> Wang & Zhang, 2014	Ri Bhoi	Meghalaya

5. <i>Tetragnatha geniculata</i> Karsch, 1892	Wayanad	Kerala
6. <i>Tetragnatha jaculator</i> Tullgren, 1910	Wayanad	Kerala
7. <i>Tetragnatha lauta</i> Yaginuma, 1959	Iduuki	Kerala
8. <i>Tetragnatha serra</i> Doleschall, 1857	Wayanad	Kerala
9. <i>Thiania abdominalis</i> Zabka, 1985	East Khasi hills	Meghalaya
ANNELIDA		
1. <i>Hesione paulayi</i> Salazar-Vallejo, 2018	Kavaravatii	Lakshadweep
NEMATODA		
1. <i>Eudorylaimus centrocerus</i> (De Man, 1880) Andrassy, 1959	Puri	Odisha
2. <i>Labronema khazariense</i> (Chesunov, 1985) Andrassy, 1991	Ganjam	Odisha
3. <i>Plectus parietinus</i> Bastian, 1865	Uttarkashi	Uttarakhand
4. <i>Stegelletina devimucronata</i> (Sumenkova, 1964) Bostrom and De Ley, 1996	Uttarkashi	Uttarakhand
ROTIFERA		
1. <i>Filinia cf. novaezealandiae</i> Shiel & Sanoamuang, 1993	West Siang	Arunachal Pradesh
2. <i>Keratella testudo</i> (Ehrenberg, 1832)	Lower Subansiri	Arunachal Pradesh
CNIDARIA		
1. <i>Lobophytum patulum</i> Tixier-Durivault, 1956	North Andaman	Andaman & Nicobar Island
2. <i>Sarcophyton boletiforme</i> Tixier-Durivault, 1958	Middle Andaman	Andaman & Nicobar Island
3. <i>Sarcophyton cinereum</i> Tixier-Durivault 1946	Andaman & Nicobar Island	Andaman & Nicobar Island
4. <i>Sarcophyton turschi</i> Verseveldt, 1976	Andaman & Nicobar Island	Andaman & Nicobar Island
5. <i>Truncatoflabellum zuluense</i> Cairns & Keller, 1993 (late issue published in 2024)	Great Nicobar Island	Andaman & Nicobar Island
PROTOZOA		
1. <i>Bakuella (Bakuella) granulifera</i> Foissner et al., 2002	Ludhiana	Punjab

06

Identification of Faunal Collections

The identification of faunal collections is crucial for effective biodiversity assessment and conservation planning. In this regard, the Zoological Survey of India plays a vital role as the national institution responsible for the scientific identification, documentation, and cataloguing of the country's rich faunal diversity. During the year 2024–2025, a significant number of collections were identified across various phyla, comprising 7,473 species under 3,654 genera, 1,094 families, 273 orders, and 52 classes.

Summary of Species Identification (Phylum-wise)

Kingdom / Phylum	Class	Order	Family	Genus	Species
KINGDOM PROTOZOA					
Phylum Ciliophora	4	9	20	29	50
Phylum Amoebozoa	1	1	3	5	9
Phylum Cercozoa	2	2	4	12	30
Phylum Tubulinea	1	1	9	16	48
Phylum Foraminifera	1	1	1	1	1
Phylum Sarcomastigophora	1	1	3	3	4
Phylum Myxozoa	1	3	5	7	17
Phylum Rotifera	1	2	5	5	7
KINGDOM ANIMALIA					
Phylum Porifera	3	23	39	49	80
Phylum Cnidaria	5	8	27	35	38
Phylum Echinodermata	3	9	17	25	30
Phylum Platyhelminthes	7	15	50	90	126
Phylum Nematoda	2	14	63	151	267
Phylum Annelida	3	11	36	83	154
Phylum Arthropoda	9	64	426	2231	4628
Phylum Mollusca	3	39	134	332	562
Phylum Chordata	5	70	252	580	1412
TOTAL	52	273	1094	3654	7473

Table 2. Class-wise Details for Phylum Chordata

Class	Order	Family	Genus	Species
Pisces	42	155	353	694
Amphibia	2	12	33	114
Reptilia	3	17	58	114
Aves	16	52	109	156
Mammalia	7	16	27	34
TOTAL	70	252	580	1412

07

Augmentation of Species to National Zoological Collections

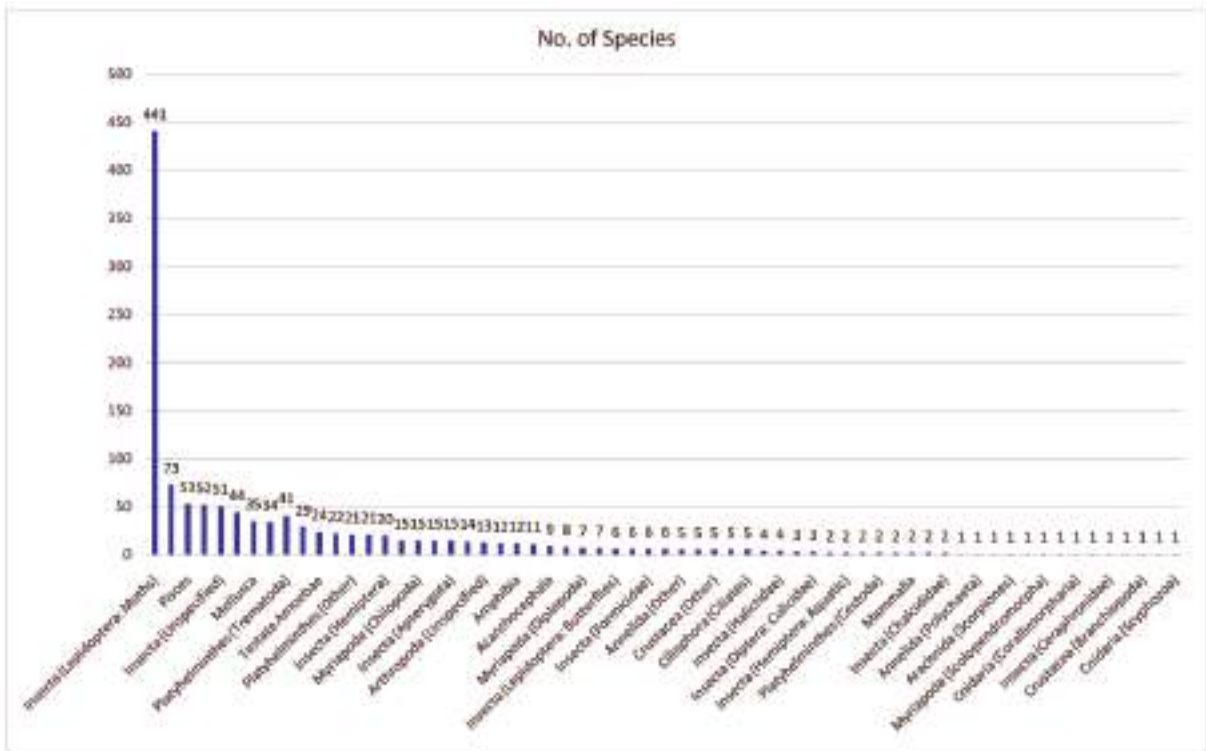
During the reporting period, a total of 1,207 species across diverse taxa were added to the National Zoological Collections, highlighting substantial augmentation of India's documented biodiversity. The majority of contributions came from Insecta, especially Lepidoptera (Moths: 441 species), followed by Coleoptera (52), unspecified Insecta (51), Hymenoptera (34), and several smaller insect groups, reaffirming the dominance of insects in new additions. Among non-insect taxa, significant records include Nematoda (73 species), Pisces (53), Mollusca (35), Platyhelminthes (64 across Trematoda, Cestoda, and others), Myzozoa (Dinoflagellates: 29), Testate Amoebae (24), Arachnida (37 across spiders, mites, opiliones, and scorpions), Myriapoda (38 across centipedes, millipedes, and others), and Cnidaria (21 across corals, anthozoans, and related groups).

Vertebrate contributions were fewer but noteworthy, comprising Amphibia (12 species), Reptilia (5), and Mammalia (2). Crustacean records totaled 16 species across decapods, brachyurans, isopods, paguroideans, and branchiopods.

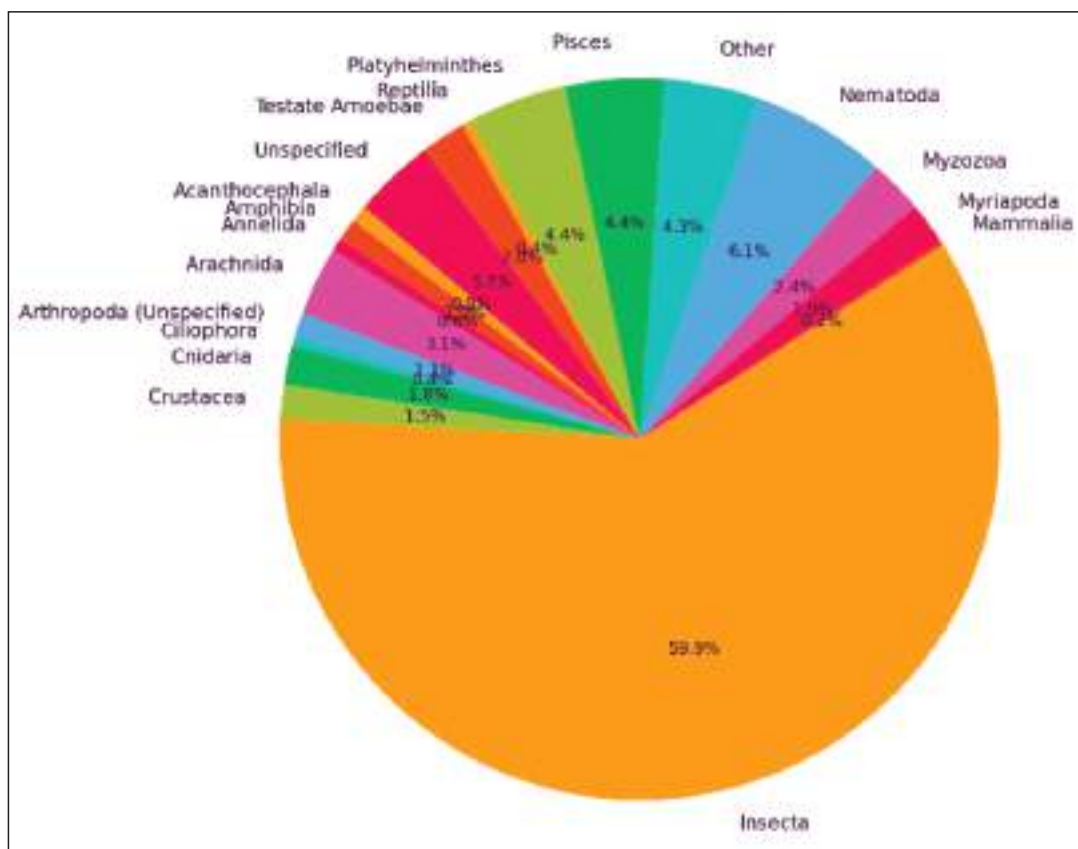
Summary of Augmentation of Species to National Zoological Collections

Taxa	No. of Species
Insecta (Lepidoptera: Moths)	441
Nematoda	33
Pisces	53
Insecta (Coleoptera)	52
Insecta (Unspecified)	51
Unspecified (Type records)	44
Mollusca	35
Insecta (Hymenoptera)	34
Platyhelminthes (Trematoda)	30
Myxozoa (Dinoflagellates)	29
Testate Amoebae	24
Arachnida (Araneae)	22
Platyhelminthes (Other)	21
Insecta (Diptera)	21
Insecta (Hemiptera)	20
Allomalorhagida (Kinorhyncha)	15
Myriapoda (Chilopoda)	15
Insecta (Orthoptera)	15
Insecta (Apterygota)	15
Insecta (Ceraphronoidea)	14
Arthropoda (Unspecified)	13
Arachnida (Acari)	12
Amphibia	12
Cnidaria (Octocorals)	11
Acanthocephala	9
Insecta (Megachilidae)	8
Myriapoda (Diplopoda)	7
Cnidaria (Other)	7
Insecta (Lepidoptera: Butterflies)	6
Insecta (Ephemeroptera)	6
Insecta (Formicidae)	6
Crustacea (Decapoda)	6

Taxa	No. of Species
Annelida (Other)	5
Insecta (Blattodea)	5
Crustacea (Other)	5
Reptilia	5
Ciliophora (Ciliates)	5
Insecta (Thysanoptera)	4
Insecta (Halictidae)	4
Insecta (Mantodea)	3
Insecta (Diptera: Culicidae)	3
Crustacea (Brachyura)	2
Insecta (Hemiptera: Aquatic)	2
Crustacea (Isopoda)	2
Platyhelminthes (Cestoda)	2
Crustacea (Paguroidea)	2
Mammalia	2
Arachnida (Opiliones)	2
Insecta (Chalcididae)	2
Annelida (Oligochaeta)	1
Annelida (Polychaeta)	1
Odonata	1
Arachnida (Scorpiones)	1
Insecta (Braconidae)	1
Myriapoda (Scolopendromorpha)	1
Cnidaria (Anthozoa)	1
Cnidaria (Corallimorpharia)	1
Insecta (Trigonalyidae)	1
Insecta (Ceraphronidae)	1
Insecta (Lepidoptera: Other)	1
Crustacea (Branchiopoda)	1
Insecta (Evaniidae)	1
Cnidaria (Scyphozoa)	1



Number of species across taxa newly added to the National Zoological Collections



Percentage frequency of diverse taxa newly added to the National Zoological Collections



08

Research Programmes: Headquarters

ZSI Headquarters is the only research institute in India studying a wide spectrum of animal life, from primitive organisms of Kingdom Protista to highly evolved Mammalia of Kingdom Animalia. Scientific research is conducted on fauna across diverse ecosystems, protected areas, states and union territories, biogeographic zones, and conservation areas, including status surveys of threatened species.

In addition to taxonomic and ecological studies, ZSI scientists employ advanced techniques in metagenomics, wildlife forensics, and GIS applications. During the reporting year, the Headquarters handled 56 in-house research programmes, of which 27 were completed, 12 were ongoing, and 17 were newly initiated.



Faunal inventory of Manas National Park, Assam: an UNESCO World Heritage Site

01

Coordinator: Dr. G. Maheswaran

Investigators: Subject Experts

Period: April 2020 to March 2024

Status: Completed

Objective:

To prepare a comprehensive Faunal Inventory of Manas National Park.

Outcome:

A total of 11 species of Tenebrionidae were recorded, distributed across six genera, six tribes, and two subfamilies, all newly reported from Manas National Park. From the order Trichoptera, 15 species representing 11 genera and six families were identified. The order Neuroptera was represented by two species under two genera and one family. Termites were well represented with 20 species across nine genera and two families, including two endemics to India, six new records for Assam, and eight major pest species.

Within Hymenoptera, 847 specimens of Formicidae, 26 of Chalcididae, and 93 of Braconidae were collected. From Formicidae, 19 species were identified based on 139 examined specimens. In addition, 401 specimens of soil nematodes representing 81 species were identified, registered, and digitized. The survey also yielded 1960 faunal specimens across 16 groups, along with soil, moss, and water samples for Protozoa, Nematoda, Tardigrada, Rotifera, and Acari. Among protozoans, 36 species of testate amoebae were identified under 14 genera and nine families, all new to Manas National Park, with three species being new records for India.

Further, 30 species of aquatic Hemiptera were documented, and 925 Dipteran specimens were collected, of which 27 species were identified, including three new records for the Park. 113 soil mites were identified, representing 16 species across 16 genera and 14 families. Seventeen vials of zooplankton (Rotifera) yielded 134 specimens belonging to 10 species, four genera, two families, and one order.

Vertebrate surveys documented 163 bird species, including the Critically Endangered Bengal Florican (*Houbaropsis bengalensis*) and three Vulnerable species: Swamp Francolin (*Francolinus gularis*), Great Hornbill (*Buceros bicornis*), and Lesser Adjutant Stork (*Leptoptilos javanicus*). Additionally, 58 species of mammals, 42 reptiles, 17 amphibians, and 79 fishes were recorded from the Park.



Greater One-horned Rhinoceros
Rhinoceros unicornis Linnaeus, 1758

Taxonomic Studies on Apidae of India

02

Investigator: Dr. S. I. Kazmi

Co-Investigator: Dr. A. Rameshkumar

Period: April 2020 to March 2024

Status: Completed

Objectives:

- To study the taxonomy, diversity and distribution of selected genera of Apidae from India.
- To describe the new taxon as well as new distributional records, if any.
- To catalogue the fauna of Apidae from India.

Outcome:

Four major surveys and museum studies led to the identification, registration, and digitization of 59 Apidae species deposited in the National Zoological Collection. Two new species and five new records

for India were described. Nine research papers were published. A national checklist of Apidae comprising 247 species from 25 genera has been compiled, strengthening baseline data for pollinator research and conservation in India.



Amegilla cingulifera (Cockerell, 1910)

Bio-indicative value of soil fauna to assess health of agricultural and natural soils of India 03

Investigators: Dr. Santosh Kumar, Dr. Jasmine P, Dr. A.N. Rizvi, Dr. G.P. Mandal, Dr. Shelley Acharya

Period: April 2021 to March 2024

Status: Completed

Objective:

To study the diversity of soil ciliates, amoeba, nematodes, collembolan and mites from agricultural soils of India and the comparison with communities in natural soils.

Outcome:

A total of 209 species with 2,814 specimens were identified and registered from agricultural soil samples, comprising ciliates, testate amoebae, nematodes, collembola, and mites. Among ciliates, 59 species (865 specimens) were recorded, belonging to eight classes, 15 orders, 24 families, and 38 genera. Identification was carried out using live observation and silver staining. The study yielded two new genera, three new species, and 11 new records for Indian fauna. One article has been published and another is in press. Most species were previously reported from aquatic habitats, and one species was found to negatively affect seed germination (manuscript under preparation). Data

on ciliate diversity were applied in developing a microbial consortium-based bio-fertilizer to improve crop growth, for which a provisional patent was filed in September 2024. Additionally, one ciliate species showed potential application in a soil health kit for nanoparticle and heavy metal toxicity assessment (patent in preparation).

In addition, 13 species (495 specimens) of testate amoebae were documented, with *Diffugia* and *Centropyxis* being dominant, mostly agglutinated forms. 76 nematode species (448 specimens) were identified, including 35 species new to state fauna. 16 collembolan species (478 specimens) were recorded, including one new record for Indian fauna and one new to state fauna. 45 mite species (528 specimens) were also identified.

In total, the program recorded two new genera, three new species to science, 12 species new to Indian fauna, and 46 new to state fauna. Abiotic parameters of soils from different agricultural crops and natural sites have been generated and are being analyzed to assess correlations between soil microfaunal communities and environmental factors.

Fauna of Protected Areas of Lakshadweep 04

Investigators: Dr. N. Marimuthu, Dr. Basudev Tripathy, Dr. Valarmathi K., Dr. Honey U.K. Pillai, Dr. J.S. Yogesh Kumar, Dr. S. Balakrishnan and R. Chandran.

Period: April 2021 to March 2024

Status: Completed

Objective:

Inventorisation of fauna of protected areas of Lakshadweep.

Outcome:

Key highlights include spatial analysis of coral bio-indicator species and a unique Crinoid-Crustacean association. One new species from Pitti Islet and five new records of Crinoid-associated crustaceans were published. Additionally, a range extension of the marine sponge *Axinella acanthelloides* from

Cheriyapani Island was recorded. Opportunistic sightings included a sperm whale, enriching the regional marine faunal inventory.



Sperm whale from Pitti Island of Lakshadweep archipelago

Fauna of Deccan Peninsular Biogeographic Zone – Deccan Peninsular India

05

Coordinator: Dr. Navneet Singh

Investigators: Subject Experts

Period: April 2021 to March 2024

Status: Completed

Objective:

To document the faunal inventorisations of Deccan Peninsular India.

Outcome:

Despite initial delays due to COVID-19, surveys were successfully conducted in subsequent years, yielding 61,072 specimens and 394 environmental samples. A total of 3,610 species across 45 faunal groups were identified, including 2,630 arthropod species. One new genus and three new species were described, along with six new national records and five state records. Ten research papers were published, including a taxonomic review.



Nilgai *Boselaphus tragocamelus* (Pallas, 1766)

Taxonomic studies on tribe Sericini (Coleoptera: Scarabaeidae: Melolonthinae) of India

06

Investigator: Dr. Devanshu Gupta

Period: April 2021 to March 2024

Status: Completed

Objective:

To describe and report new species, new distributional records from museum specimens as well as recent surveyed collections.

Outcome:

A total of 1,156 specimens representing 122 species and 12 genera of Sericini were studied. Eleven new species were described and published, including *Maladera kaimurensis*, *Neoserica debasriae*, and *Maladera kolkataensis*. One lectotype (*Microserica nicobarensis*) was designated from Great Nicobar. Additionally, 111 species were augmented to the National Zoological Collection. Five SCI-indexed research papers were published, and one PhD thesis was awarded based on this work.

Morphology, Molecular taxonomy and Bionomics of forensic flies (Insecta: Diptera) across the different Geo-climatic region of West Bengal

07

Investigator: Dr. Dhriti Banerjee

Co-Investigator: Dr. Atanu Naskar

Period: April 2021 to March 2024

Status: Completed

Objective:

To study morphology, molecular taxonomy and bionomics of forensic flies (Insecta: Diptera) across the different geo-climatic region of the state.

Outcome:

This programme provided the first systematic account of forensic Diptera in West Bengal, identifying 59 species across 18 genera and 10 families. Six species were reported for the first time as forensically important in the state. Molecular barcodes were generated for 138 specimens

representing 47 species. Bionomics studies showed seasonal development patterns of *Chrysomya megacephala* and *Sarcophaga (Liosarcophaga) dux* in varying climatic zones. Overall, *C. megacephala* completed its life cycle faster except in hilly regions. The data contribute to forensic entomology and ecological studies.

Zooarchaeological study of faunal remains from Bharati Huda Archaeological Site, Dist. Cuttack, Odisha

08

Investigator: Mrs. Supriya Nandy

Period: April 2021 to March 2024

Status: Completed

Objectives:

- Conduct a critical study of each specimen of faunal remains from the Bharatihuda.
- Archaeological Site housed in the Prehistoric Zoology Section, ZSI.
- Identify the skeletal element represented by each specimen in the sample.
- Carry out taxonomic identification, wherever possible, up to the genus/species level.
- Undertake taphonomic analysis of the faunal assemblage.
- Examine modifications observed in the faunal remains.

Outcome:

Of approximately 17,455 faunal remains deposited by ASI, 5,528 specimens were studied for element representation, and 2,180 were taxonomically identified across 30 vertebrate species. The assemblage primarily includes domestic animals such as cattle, buffalo, pig, sheep, goat, dog, horse, and elephant. Wild fauna includes rhinoceros, cheetal, sambar, barking deer, nilgai, and small carnivores, many now locally extinct. Taphonomic and contextual analysis with excavation data reveals a rich marshy habitat and human-animal interactions around 4000 BP from the Chalcolithic to Early Historic periods. This study also records the first confirmed occurrence of rhinoceros remains from Odisha.



An archaeological site, Bharati Huda, Cuttack, Odisha

Distribution of birds in various habitats in Valmiki Tiger Reserve, with special reference to RET bird species

09

Investigator: Dr. G. Maheswaran

Period: April 2021 to March 2024

Status: Completed

Objectives:

- To carry out a detailed survey in Valmiki Tiger Reserve, Bihar.
- To study the species composition in various habitats inside Valmiki Tiger Reserve
- To give recommendations to the state Forest Department in order to manage the habitat and the bird diversity more scientifically.

Outcome:

A comprehensive survey was conducted in the Valmiki Tiger Reserve, Bihar, resulting in the documentation of over 230 bird species, including several rare and previously unrecorded species. The study covered multiple habitat types sal forests, grasslands, riparian zones, and wetlands revealing distinct bird communities and species-habitat associations. Special attention was given to rare, endemic, and threatened (RET) bird species. The research emphasized the conservation value of specific microhabitats, particularly wetlands and forest edges, for RET species. Recommendations were provided to the Forest Department for habitat improvement and scientific management of avifaunal diversity. A popular article based on the findings was published in *Sanctuary Asia* (Maheswaran, 2024), contributing to conservation

awareness and serving as a reference for future ecological studies.



Greylag goose *Anser anser* (Linnaeus, 1758)

Diversity and distribution of Jellyfish from the east coast of India

10

Investigator: Dr. Jasmine P.

Period: April 2021 to March 2024

Status: Completed

Objective:

Documentation and faunal study of diversity of gelatinous zooplankton of Phylum Cnidaria and Phylum Ctenophora along east coast of India.

Outcome:

This study recorded 39 species of Scyphozoa, 20 Hydrozoa, and 19 Siphonophora from the east coast of India. Notable blooms of *Acromitus flagellatus*, *Cyanea nozakii*, and *Chrysaora caliparea* were documented for the first time in Bay of Bengal waters. DNA barcoding was conducted for several species, with sequences submitted to NCBI. The presence of invasive ctenophores *Beroe ovata* and *Beroe cucumis* was confirmed in the northern Bay of Bengal. Tamil Nadu's coastal waters, especially Tuticorin and Pamban, showed the highest hydrozoan abundance, likely linked to microplankton blooms. This research contributes valuable baseline data for monitoring jellyfish diversity, ecosystem changes, and potential fisheries impacts. The programme led to the publication of 1 book, 7 SCI research articles, and 3 conference papers.

Threatened Herpetofauna of Indian Sunderbans

11

Investigators: Dr. Kaushik Deuti, Dr. Pratyush P. Mohapatra & Dr. J.S. Yogesh Kumar

Period: April 2021 to March 2024

Status: Completed

Objective:

To determine the status of threatened species of herpetofauna in Indian Sunderbans.

Outcome:

The survey focused on freshwater habitats across major islands in the Sunderbans, where most of the 13 targeted herpetofauna species are believed to occur. Results revealed alarming declines in freshwater turtles, primarily due to overharvesting and the adverse effects of introduced fish species. Only *Lissemys punctata* and a few individuals of *Geoclemys hamiltonii* were found; *Batagur baska* appears extinct in the wild, surviving only in captive facilities. Marine turtle nesting beaches could not be surveyed due to access restrictions but were confirmed active through Forest Department reports. King Cobra and Indian Python were recorded from both mangroves and village fringes. The findings highlight critical conservation needs for the region's freshwater herpetofauna.

Taxonomic studies of the Dermaptera fauna of India

12

Investigator: Dr. K.G. Emiliyamma

Period: April 2021 to March 2024

Status: Completed

Objective:

To study the Dermaptera Fauna of India and bring out a document.

Outcome:

The study examined over 3,000 Dermaptera specimens from survey collections, regional centers, and backlog materials. A total of 290 species under 73 genera and 9 families were documented. The most diverse family was *Forficulidae*, followed by *Anisolabididae* and *Spongiphoridae*. Two new

species were described *Forcipula* sp. from West Bengal and *Apolabis* sp. from Kerala. Another *Cranopygia* species from Wayanad was prepared for publication. The project reported 165 endemic species, with Tamil Nadu and northeastern states showing the highest levels of endemism. Several species previously listed as doubtful were not encountered. This research adds significantly to the understanding of Dermaptera taxonomy and distribution in India and supports further ecological and faunistic studies.

Drinking water Microbiome Monitoring of the water quality and associated health implications 13

Investigators: Dr. Vikas Kumar, Dr. Inderjeet Tyagi & Dr. Kaomud Tyagi

Period: April 2021 to March 2024

Status: Completed

Objectives:

- Microbial community patterns of drinking water using e-DNA metabarcoding in metropolitan city, Kolkata, West Bengal.
- Drinking water Health assessment of with special reference to chemical analysis and pathogenic bacterial compositions.
- Conducting training cum workshop for Drinking Water Microbiome.

Outcome:

Drinking water samples from 62 sites across Kolkata were analyzed using amplicon and whole genome sequencing. Pathogenic bacteria such as *Acinetobacter indicus*, *Rhizobium pusense*, and several species of *Mycobacterium* were identified. Multiple antimicrobial resistance genes (ARGs and AMRs) were detected, indicating potential threats to human health. Heavy metals such as arsenic, chromium, and lead exceeded WHO and Indian permissible limits in certain areas. Health risk indices (HRI, HEI, HPI) highlighted wards with unsafe water conditions. The findings underline the necessity for advanced treatment interventions and regular microbiome surveillance. This study offers a framework for policy updates on drinking water quality and public health safety.

Assessment of Groundwater Quality and Bacterial Diversity in Villages around Sundarbans Biosphere Reserve 14

Investigators: Dr. Inderjeet Tyagi, Dr. Vikas Kumar & Dr. Kaomud Tyagi

Period: April 2021 to March 2024

Status: Completed

Objective:

To assess the Groundwater Quality and Bacterial Diversity in Villages around Sundarbans Biosphere Reserve.

Outcome:

The project focused on assessing groundwater bacterial diversity, water quality, and heavy metal concentrations in samples collected from villages across eight blocks Kulpi, Namkhana, Sagar, Joynagar I, Canning I, Canning II, Gosaba, and Basanti located near the Sundarbans Biosphere Reserve (SBR).

Amplicon (16S rRNA) analysis revealed the presence of 15 bacterial phyla, including Proteobacteria, Verrucomicrobia, Acidobacteria, Actinobacteria, Bacteroidia, Chloroflexi, Firmicutes, Nitrospirae, and others. Further analysis confirmed 24 classes, 11 orders, 11 families, 107 genera, and 42 species. Bacterial diversity was dominated by genera such as *Mycobacterium*, *Nitrospira*, *Sediminibacterium*, *Altererythrobacter*, *Limnobacter*, *Pseudomonas*, and *Rhodobacter*. At the species level, *Mycobacterium iranicum*, *Sediminibacterium goheungense*, *Nitromonas nitrosa*, *Flavobacterium defluvii*, *Acidithiobacillus thiooxidans*, *Mycobacterium obuense*, and *M. moriokaense* were dominant.

Physico-chemical analyses showed that parameters like BOD, TDS, hardness, alkalinity, and acidity were within WHO and IS 10500:2012 standards. However, heavy metals such as arsenic (As), chromium (Cr), and lead (Pb) were detected above permissible limits, raising concerns due to their carcinogenic nature.

The presence of potential pathogenic bacteria (*M. iranicum* and *M. moriokaense*) alongside toxic heavy metals highlights a serious risk to human and

aquatic health. These findings underscore the necessity of continuous monitoring of groundwater microbiomes and contaminants in the SBR region to safeguard community health and ensure sustainable water resource management. The study provides valuable baseline data to support future water quality interventions in this ecologically fragile landscape.

Zooarchaeological study of faunal remains from North 24 Parganas and South 24 Parganas districts of deltaic West Bengal

15

Investigator: Mrs. Supriya Nandy

Period: April 2021 to March 2024

Status: Completed

Objectives:

- Prepare a consolidated account of the ancient fauna (prehistoric and historic period) of North 24 Parganas and South 24 Parganas districts, West Bengal, based on faunal remains unearthed from the area.
- Undertake exploration to trace existing faunal remains with local people, in private collections, and in Government museums.
- Examine and study relevant specimens available in the ZSI repository.

Outcome:

A comprehensive faunal inventory of ancient species from the Lower Gangetic delta was prepared, documenting 59 species (34 vertebrates and 25 invertebrates). Specimens from local museums, private collections, and ZSI repositories were analyzed. Key finds include both extant and locally extinct species such as wild buffalo and Javan rhinoceros, along with domestic forms like cattle, pig, and elephant. A total of 1,232 specimens were examined, with osteological data and photos documented. The findings attest to early human settlements with farming, fishing, and animal domestication, and provide insights into historical environmental changes and biodiversity loss in the Sundarbans region.



An archaeological site in North 24 Parganas of deltaic West Bengal

Diptera fauna from Tropical Evergreen Forest and Coastal Ecosystem of Andaman and Nicobar Islands

16

Coordinator: Dr. Dhriti Banerjee

Investigator: Dr. Atanu Naskar

Co-Investigator: Dr. C. Sivaperuman

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To undertake faunistic survey for the collection of dipteran fauna from ecosystem of this Union territory.
- To identify the key species, responsible for maintaining the balance of ecosystem of the abovementioned UT.
- To study and describe the new taxa and new records of the dipteran species from the UT, if found during the survey.
- To study and explore the sites for availability of the different dipteran faunal species

Outcome:

The study documented 370 species of dipteran flies from tropical evergreen forests and coastal ecosystems of the Andaman and Nicobar Islands, representing 146 genera across 36 families. Among them, 65 species belonging to 14 genera were newly

reported from the islands. Nineteen species and one genus (*Scholastes*) were newly recorded for India. Five dipteran families (*Ceratopogonidae*, *Platystomatidae*, *Xylomyidae*, *Sciomyzidae*, and *Conopidae*) were reported for the first time from the islands. Additionally, one new species, *Solva andamanensis* (Xylomyidae), was described. The findings significantly enhance knowledge of the region's dipteran biodiversity and emphasize the ecological importance of these habitats.

Status Survey of White-Cheeked Macaque (*Macaca leucogenys*) in Arunachal Pradesh 17

Investigator: Dr. Mukesh Thakur

Co-Investigator: Dr. Lalit Kumar Sharma

Period: April 2022 to March 2025

Status: Completed

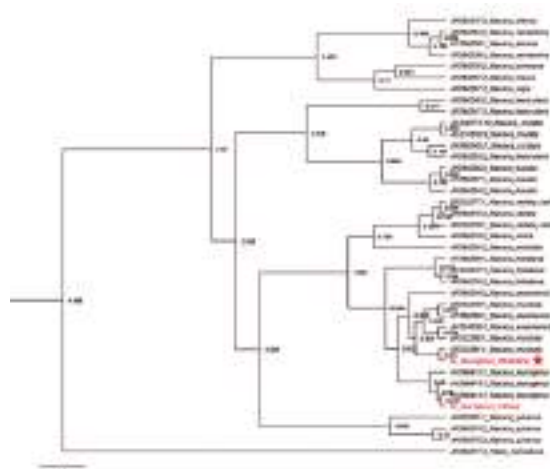
Objectives:

- To undertake reconnaissance (presence/absence) survey for white cheeked macaque in Arunachal Pradesh;
- To evaluate the status, distribution and potential threats to white cheeked macaque in Arunachal Pradesh;
- To undertake a phylogenetic assessment of white cheeked macaque and investigate intraspecific divergence with its counterpart reported from Medog, southeastern Tibet, China.

Outcome:

Phylogenetic analyses using mitochondrial D-loop, complete mitochondrial genome, and Y-chromosomal TSPY gene showed genetic structuring in *Macaca leucogenys* populations across Arunachal Pradesh. The D-loop revealed two clades one from Dibang Valley and Tibet, the other from West Siang while the complete mitochondrial genome indicated a single maternal lineage within India. Y-chromosome data showed paternal divergence: one subclade aligned with Medog macaques, another with *M. munzala* and *M. assamensis*. This suggests possible male-mediated gene flow and hybridization. The findings support

earlier hypotheses of introgression and shared ancestry with *M. munzala*, and emphasize the need for further multilocus or genomic studies.



Phylogeny of partial fragment of TSPY gene

Taxonomy and Phylogeny of Lacertid Lizards in India 18

Investigator: Dr. Pratyush P. Mohapatra

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To study the taxonomy, distribution, biogeography and natural history of Lacertid Lizards of India.
- To study the cryptic diversity and delimit species following integrative taxonomic approach.

Outcome:

Lacertid lizards housed in four ZSI regional centres were studied, totalling 525 specimens from 17 species. A field survey was conducted in West Bengal, Assam, and Meghalaya, with morphometric and distributional data compiled. Topotypes and museum type specimens (ZSI and NHM, London) were reviewed. Tissue samples from eight nominal species across 42 sites were collected for molecular analysis, with sequencing planned for phylogenetic resolution. Two related publications emerged: one designated a lectotype for *Mesalina watsonana* and the other documented the first records of *Takydromus khasiensis* from Nagaland.

Status Survey of Water Monitor Lizard (*Varanus salvator*) in Eastern India 19

Investigator: Dr. Kaushik Deuti

Co-Investigators: Dr. P.G.S. Sethy, Dr. Pratyush P. Mohapatra & Dr. Sujoy Raha

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To determine the distribution of Water Monitor lizard in different areas of Eastern India (West Bengal, Odisha, Assam & Tripura).
- To determine the comparative population status of Water Monitor lizard in different areas of Eastern India (West Bengal, Odisha, Assam & Tripura).
- To determine the causes of decline or increase of population of the Water Monitor lizard in different areas of Eastern India (West Bengal, Odisha, Assam & Tripura).
- To find out the socio-ecological causes of this decline or increase by questionnaire survey.
- To photograph the Water Monitor lizard in different habitats.

Outcome:

Surveys across four eastern Indian states revealed sparse populations in Bhitarkanika (Odisha), Kaziranga (Assam), and Trishna (Tripura), but significant populations in southern West Bengal. Highest densities were found in Howrah and North/South 24 Parganas districts. Line transect surveys recorded 237 adults, 24 sub-adults, and 5 juveniles. Wetland availability, bamboo groves, garbage dumps, and local tolerance were key factors influencing abundance.



Water Monitor Lizard *Varanus salvator* (Laurenti, 1768)

Faunal Composition of Tropical Dry Deciduous Forest, Phase I: West Bengal 20

Coordinators: Dr. G. P. Mandal & Dr. Debabrata Sen

Co-Coordination: Dr. Souvik Sen & Mr. Suresh Kumar Shah

Investigators: Subject Experts

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To explore the fauna of dry deciduous forest ecosystem of West Bengal spread over Burdwan, Bankura, Birbhum, West Medinipur, Jhargram and Purulia districts.
- To collect the non-schedule fauna of the area and taxonomic identification of those.
- To observe/record the fauna present in the area.
- To make local enquiry of the fauna present in the area.
- To prepare a consolidated document of faunal resources of the study area.

Outcome:

From six districts in West Bengal, 23,447 specimens representing 1,465 species from 27 faunal groups were identified. New records include termites, Lepidoptera, Hymenoptera, and Platyhelminthes. Two new insect species (*Thalerosphyrus bengalensis* and *Baetis jhargramensis*) have been described. Notable vertebrate records include *Sphaerotheca maskeyi*, *Cyrtodactylus nebulosus*, *Ophisops nictans*, and two freshwater fish species. A pack of Indian Grey Wolves was documented in Laudoha forest via camera traps. Bird surveys recorded 102 species, including the vulnerable Lesser Adjutant. Multiple species were newly reported from West Bengal, with several state and national faunal records.



Habitat tropical dry deciduous forest

Taxonomic Study and Biogeography of the Sisorid Catfish of India

21

Investigators: Dr. L. Kosygin Singh & Dr. S.D. Gurumayum

Period: April 2022 to March 2025

Status: Completed

Objective:

To study the taxonomy, diversity, status, biogeography of sisorid catfishes of India.

Progress:

A checklist of 149 species of sisorid catfish under 18 genera and two subfamilies has been prepared. *Glyptothorax* showed highest diversity (72 species). The checklist includes 18 threatened species (2 Critically Endangered, 7 Endangered, 9 Vulnerable). A key for species identification was developed. Four new species have been described: *Glyptothorax chakpiensis*, *G. pongoensis*, *G. zeiladensis*, and *G. palakkadiensis*. The study highlights the ecological specialization and restricted distribution of rheophilic sisorid catfishes within Indian River systems.



Glyptothorax telchitta (Hamilton, 1822)

Systematics and Distribution of Fishes of the Mandovi and Zuari Aquatic Ecosystems (Freshwater & Estuarine), Western Ghats, India

22

Investigator: Dr. L. Kosygin Singh

Co-Investigators : Dr. Honey U. K. Pillai & Dr. S. Rath

Period: April 2022 to March 2025

Status: Completed

Objective:

To study the Ichthyofaunal diversity of Mandovi and Zuari aquatic ecosystems (freshwater & estuarine)

Outcome:

Four combined surveys across Goa and Karnataka yielded 2,051 specimens. Of these, 1,196 were from Mandovi and 843 from Zuari. A total of 196 species across 116 genera and 55 families were identified. Noteworthy findings include *Thryssa gautamiensis* and *Stolephorus tamilensis* first recorded from India's west coast; *Sillago maculata* is a new record for India; and *Allenbatrachus grunniens* and *Oxyurichthys microlepis* are new for Goa. The data significantly enhance understanding of fish diversity in the region's estuarine ecosystems.



Pseudotroplus maculatus (Bloch, 1795)

Species Inventory, Documentation and Checklist of Land Mollusca of India

23

Investigators: Dr. Tamal Mondal, Dr. Amit Mukhopadhyay, Dr. Abhijna Ghosh, Dr. Basudev Tripathy, Dr. R. Venkitesan, and Dr. S.D. Gurumayum

Period: April 2022 to March 2025

Status: Completed

Objective:

To document the land Molluscan faunal diversity of India.

Outcome:

Surveys were conducted across 13 states and one union territory. From all surveys, 14,313 specimens were collected, of which 5,307 were gathered in the recent period. A total of 369 species of land molluscs were identified. One species was a new record to India, and four were new records to specific states. The findings contribute significantly to the national land molluscan inventory and biodiversity conservation efforts.

Revisionary Studies of Genus *Tomocerus* Nicolet, 1842 (Collembola: Tomoceridae) from Eastern Indian Himalayan Region (Phase I)

24

Investigator: Dr. G. P. Mandal

Co-Investigators: Shri K.K. Bhattacharya, Shri K.K. Suman, Smt. S. Verma, Shri K.K. Roy

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To survey, explore and document this little-known group of the genus *Tomocerus* (Collembola: Tomoceridae) of India.
- To prepare a catalogue of all the known species of genus *Tomocerus* of India.
- To provide a consolidated account on the group with their diagnosis, keys and distribution maps.

- To prepare the database of Indian genus *Tomocerus* from the entire north-eastern Himalayan Region.

Outcome:

Originally, five species of *Tomocerus* were documented in India. Field collections have added seven newly recorded species. One species, *Tomocerus* (*T.*) *sikkimensis* Mandal, Kumari & Mandal, 2024, has been formally published. Two species (*T. serratospinus* and *T. petalospinus*) were redocumented and redescribed. Additionally, two morphotypes were noted as potentially distinct species. Two more species, *Tomocerus anukadantadanti* sp. nov. and *Tomocerus indica* sp. nov., have been submitted for publication. To date, nine species have been identified and a comprehensive identification key for Indian *Tomocerus* species has been prepared.



Collembola collection habitats in Sikkim

Ichthyofaunal Diversity of Gulf of Kutch

25

Investigator: Dr. Honey U. K. Pillai

Co-Investigators: Dr. K. K. Bineesh & Shri S. C. Saren

Period: April 2022 to March 2025

Status: Completed

Objective:

To study the ichthyofaunal diversity of the Gulf of Kachchh.

Outcome:

Four surveys including three with MBRC collaboration were conducted across the northern and southern Gulf. A total of 1,777 fish specimens

were collected; 1,259 were successfully identified, comprising 210 species, 138 genera, 70 families, and 23 orders. Notable new records include *Yongeichthys nebulosus* (first from Gujarat coast), *Pseudosynanceia melanostigma* (blackfin stonefish; first for India; manuscript under review), and *Aulopareia ocellata* (first from Gujarat coast; manuscript under review).



Sampling locations in Gujarat

26 Bionomics and DNA Barcoding of Host Caterpillars of *Ophiocordyceps sinensis* with Adult Moth Taxonomy from Uttarakhand

Coordinator: Dr. Dhriti Banerjee

Investigators: Dr. Navneet Singh & Dr. Vikas Kumar

Period: April 2022 to March 2025

Status: Completed

Objective:

Survey and inventorisation of Lepidoptera.

Outcome:

Three field surveys were conducted, yielding 32 adult Hepialidae moths and 17 larvae specimens. This significantly augments national collections. Additionally, 1,260 high-altitude moth specimens were collected. Specimens underwent genitalia dissections and DNA barcoding to confirm taxonomic identities and larval associations. All samples belonged to a single, previously undescribed *Thitarodes* species confirmed by morphological and genetic data representing a notable addition to entomological knowledge of this region's caterpillar-fungus interactions (Keera Jari).



Light trap to capture moths

27 Taxonomic studies of the Portunid Crabs of India (Crustacea: Brachyura: Portunoidea)

Investigator: Dr. K. Valarmathi

Period: April 2022 to March 2025

Status: Completed

Objective:

To explore the Portunid Crab Diversity in India and to bringout a consolidated document on Portunid crabs of India.

Outcome:

A total of three surveys were conducted under this programme covering Karnataka, Goa, Maharashtra, and Gujarat on the West Coast, and Andhra Pradesh and Odisha on the East Coast. Portunid crabs and other crustaceans were collected from major and minor landing centres, estuaries, mangroves, and coastal areas. Field observations, interactions with fishermen, vendors, local communities, scientists, and academicians, along with consultation of published information, were undertaken to assess availability, species abundance, and the current status of Portunid crab diversity in India. Representative specimens were collected for common species, while rare and uncommon species were prioritized. *Portunus pelagicus* and *P. sanguinolentus* were the most frequently recorded species across coasts, while *Charybdis feriata*, *C. lucifer*, *Podophthalmus vigil*, and *Monomia gladiator* were also observed as commercially important

species. Among mangrove crabs, *Scylla serrata*, *S. tranquebarica*, and *S. olivacea* were highly preferred. To address the lack of gonopod illustrations for several Indian species, efforts were made to digitize Portunid crab specimens, including gonopods, from the National Zoological Collections (ZSI, Kolkata), resulting in 81 species digitized. The study aims to consolidate information on Portunid crabs, supported by original descriptions and revisionary literature, with ongoing investigations to redescribe poorly known species.

Building Digital Sequence Information (DSI) Library of India Fauna

28

Investigator: Dr. Dhriti Banerjee

Co-Investigators: Dr. Vikas Kumar, Dr. Mukesh Thakur, Dr. Kaumud Tyagi, Dr. G. P. Mandal, Dr. Shelley Acharya, O/c NRC Dehradun, O/c ANRC Port Blair, O/c EBRC Odisha, O/c FBRC Hyderabad, O/c HARC Solan, O/c SRC Chennai, O/c WRC Pune

Period: April 2022 to continuing

Status: Ongoing

Objective:

Building Digital Sequence Information (DSI) Library of India Fauna.

Progress:

From April 2024 to March 2025, ZSI generated 2,660 DNA barcodes representing 521 species. Of these, 1,417 barcodes for 478 species have been registered on BOLD and NCBI. The barcodes cover a broad taxonomic range including mammals, birds, reptiles, amphibians, fishes, molluscs, annelids, and various insect orders like Lepidoptera, Diptera, and Thysanoptera. These efforts aim to resolve taxonomic ambiguities using mitochondrial (mtCOI) and nuclear markers and to build robust reference databases for future metabarcoding and biodiversity assessment. This outcome underscores ZSI's role in advancing molecular taxonomy and digital biodiversity documentation in India.

Ecological Studies and Conservation of *Lingula anatina* (Brachiopoda: Lingulata) in Subarnarekha Estuary, Odisha

29

Investigators: Mr. Santanu Mitra

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- To observe the habitat and distribution of *Lingula* in Subarnarekha Estuary.
- To study and estimate the other fauna of the same habitat.
- To relate the other fauna with this group in the same area of study.
- To make a conservation strategy for this species and to create awareness among local people.

Progress:

Post-cyclone Yash, the population of *Lingula anatina* relocated largely to a new island at Talsari, with densities increasing from 38 to 120 individuals/m². A detailed assessment included recording juveniles and adults, as well as measuring salinity, pH, and TDS. Associated fauna crabs, hermit crabs, polychaetes, bivalves, and gastropods (*Cerethidea*, *Stenothyra*, *Assimineia*) were surveyed. A potentially new Polynoidae species of polychaete was noted. Several specimens collected represent potential new records for Northeast India, and one crab may be a first record for India.

Conservation genetics and status survey of Kiang *Equus kiang* Moorcroft, 1841 in India

30

Investigator: Dr. Lalit Kumar Sharma

Co-Investigators: Dr. Mukesh Thakur,
Dr. Kamalakannan M., Dr. Bheem Dutt Joshi

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- Distribution assessment of Kiang in India
- Population status and threats assessment of Kiang in India
- Genetic evaluation of Kiang subspecies to understand their genetic composition

Progress:

Surveys in Ladakh and North Sikkim recorded 679 Kiang individuals. Age and sex data were collected, and 182 biological samples (dung, hair, tissue) were obtained. Genetic analysis was conducted on 130 Kiang samples, yielding usable microsatellite data for 98 individuals. These data are being used for conservation genetics analysis. Additional records of 12 mammals, 31 birds, and 3 reptiles were made during the Ladakh survey. These findings contribute to understanding population structure and genetic variation in Indian Kiang populations.



A herd of Kiang *Equus kiang* Moorcroft, 1841 at Ladakh

Understanding the behavior ecology and habitat utilization by Himalayan black bear (*Ursus thibetanus laniger*) in Himachal Pradesh for mitigating human-wildlife conflict

31

Investigator : Dr. Lalit Kumar Sharma

Co-Investigator : Dr. Mukesh Thakur

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- To understand the hibernation behavior of the black bear in Himachal Pradesh
- To understand the landscape utilization by black bear in great himalyan landscape of Himachal Pradesh
- To understand the movement and ranging patterns of black bear
- To understand the food and feeding habits of black bear in Himachal Pradesh

Progress:

Animal capture sites were identified with assistance from the Forest Department. Approval from MoEFCC for radio collar procurement has been received, and procurement is underway via an externally funded project. In the meantime, camera traps under a Himachal Pradesh Government-funded project have generated behavioural data. Habitat ecology has also been studied using field surveys and the same camera traps. The deployment of radio collars will further enhance understanding of movement, ranging patterns, and hibernation behaviour.

Arthropod Diversity of Dihang-Dibang Biosphere Reserve, Arunachal Pradesh

32

Coordinator: Dr. Rajmohana K.

Investigators: Subject Experts

Period: April 2023 to March 2026

Status: Ongoing

Objective:

To explore and inventorize the Arthropod Diversity of Dihang-Dibang Biosphere Reserve, Arunachal Pradesh.

Progress:

A total of 188 species were identified across multiple arthropod taxa. Noteworthy are two new species of mayflies *Platybaetis arunachalensis* and *Potamanthellus sineiugis* described and published based on recent collections. Two terrestrial Hemiptera and seven species of whiteflies were recorded for the first time from Arunachal Pradesh. Identified taxa span termites, Lepidoptera, Hemiptera, Collembola, Diptera, Arachnida, Coleoptera, Formicidae, Ephemeroptera, and Odonata. The findings reflect the immense and previously undocumented arthropod diversity of the region.



Collembola collection at the Dihang-Dibang Biosphere Reserve, Arunachal Pradesh

Faunistic studies on Termites infesting the forest plantations of Chota Nagpur Plateau, India

33

Investigator: Dr. Rajmohana K.

Co-Investigators: Mr. Balmohan Baraik, Ms. Jayati Basak

Period: April 2023 to March 2026

Status: Ongoing

Objective:

To explore and inventorize the termite fauna of forest plantations of Chota Nagpur Plateau.

Progress:

Two surveys were conducted, yielding 405 vials comprising around 4,337 termite specimens. Of these, 951 individuals were identified, representing 18 species under four genera and two families. *Microcerotermes greeni* and *M. cylindriceps* were newly reported from India based on material from the West Bengal sector of the plateau. These findings contribute to the knowledge of termite diversity in India's forest plantations and add new records to the country's faunal inventory.



Field survey at the Chota Nagpur Plateau

Assessment of faunal communities of Balukhand-Konark Wildlife Sanctuary, Odisha

34

Investigator: Dr. C. Raghunathan

Co-Investigators: Dr. G. Maheswaran, Dr. Gurupada Mandal, Dr. Rajmohana K., Dr. Jasmine P., Dr. S. Balakrishnan, Dr. J.S. Yogesh Kumar, Dr. Koushik Deuti, Dr. Devanshu Gupta, Dr. Rahul Joshi, Dr. C.R. Sreeraj, Dr. Tamal Mondal, Dr. Souvik Sen, Dr. Kubendran T., Dr. Debabrata Sen, Dr. Atanu Naskar

Period: April 2023 to March 2026

Status: Ongoing

Objective:

Assessment of faunal communities of Balukhand-Konark Wildlife Sanctuary, Odisha.

Progress:

Four surveys were conducted, collecting 7,230 specimens. These include 20 Porifera, 114 Cnidaria, 3,135 Arthropoda, 3,687 Mollusca, and additional representatives of Echinodermata, Annelida, Bryozoa, and Chordata. So far, 462 species have been identified including diverse taxa like ciliates, ascidians, insects (e.g., Diptera, Lepidoptera, Odonata), molluscs, fishes, amphibians, reptiles, birds, and mammals. This assessment provides a comprehensive faunal baseline for the sanctuary.

Exploration on corals and coral associated faunal communities along Konkan and Malabar Coasts of India

35

Investigator: Dr. C. Raghunathan

Co-Investigator: Dr. S. Balakrishnan, Dr. J.S. Yogesh Kumar, Dr. G. Sivaleela, Dr. C.R. Sreeraj and Dr. Tamal Mondal

Period: April 2023 to March 2026

Status: Ongoing

Objective:

Exploration on corals and coral associated faunal communities along Konkan and Malabar Coasts of India.

Progress:

Three surveys were conducted, including two during the reporting period. A total of 16,189 specimens were collected, comprising 158 Porifera, 811 Cnidaria, 643 Annelida, 4 Sipuncula, 50 Nematoda, 5 Polycladida, 1,863 Arthropoda, 12,100 Mollusca, 82 Bryozoa, 199 Echinodermata, 61 Ascidia, 150 Pisces, along with 13 sediment samples and 50 seaweeds. So far, 593 species have been identified, including 22 Porifera, 53 Scleractinia, 4 Zoantharia, 5 Octocorallia, 12 Actiniaria, 3 Scyphozoa, 2 Nematoda, 3 Polycladida, 33 Polychaeta, 47 Decapoda, 2 Isopoda, 1 Halobate, 2 Bryozoa, 167 Mollusca, 10 Heterobranchia, 15 Echinodermata, 5 Ascidia, 205 Pisces, 1 Reptilia, and 1 Mammalia. The findings indicate significant coral and associated faunal diversity along the targeted coasts.

Taxonomic Revision of Indian Evaniidae (Hymenoptera: Evanioidea)

36

Investigator: Dr. S. I. Kazmi

Co-Investigator: Dr. A. Rameshkumar

Period: April 2023 to March 2026

Status: Ongoing

Objective:

- Survey of gap areas and rearing of predators from the host insect, and collection of predators from field by sweeping, yellow pan trap, Malaise trap and other methods.
- Its aim at a systematic revision of the family Evaniidae.
- To publication of faunistic/systematic monograph of family Evaniidae of India.

Progress:

A survey was conducted in Indore, Bhopal, and Jabalpur. Thirty-nine specimens belonging to two genera and three species were identified. Fifty-seven additional evaniid specimens from

northeastern India were mounted and identified to genus level (*Prosevania*, *Evania*, *Zeuxevania*). One new species, *Brachygaster bangalorensis* Rameshkumar and Kazmi, has been described and published in *Zootaxa*. Another manuscript describing a new *Zeuxevania* species with an updated key is under preparation.



Brachygaster bangalorensis
Rameshkumar and Kazmi, 2025

Taxonomic Revision of the lynx spider genus *Oxyopes* Latreille 1804 (Araneae Oxyopidae) from India

37

Investigator: Dr. Souvik Sen

Period: April 2023 to March 2026

Status: Ongoing

Objectives:

- To provide a consolidated taxonomic account on the genus with suitable keys, illustrations, and distribution maps;
- To prepare an updated database of Indian *Oxyopes*.

Progress:

Two faunistic surveys were conducted in Northeast India during June and December 2024. A total of 361 lynx spider specimens were collected. Among these, 225 examples belonging to 27 species were identified and registered. Type specimens of 18 *Oxyopes* species housed in the NZC-ZSI, Kolkata were examined, and new taxonomic combinations have been proposed. These efforts are contributing to the development of a comprehensive taxonomic revision of the genus in India.



Collection of lynx spider

Bio-monitoring of Kabartal Wetland (RAMSAR SITE) through environmental DNA

38

Coordinator: Dr. Vikas Kumar

Investigator: Dr. Inderjeet Tyagi

Co-Investigator: Dr. Kaomud Tyagi

Period: April 2023 to March 2026

Status: Ongoing

Objectives:

- Assessment of Eukaryotic and Prokaryotic diversity of the Kabartal wetland.
- Monitoring of water quality with special reference physicochemical parameters.
- Correlation of environmental variables with eukaryotic and prokaryotic diversity.

Progress:

One survey was conducted and 30 water samples were collected. Physicochemical analysis covered TDS, DO, chloride, hardness, BOD, COD, CaH, MgH, and heavy metals including Si, Ti, Al, Fe, Cr, P, Ni, Zn, Cu, Cd, Ca, Mg, Na, and K. DNA extraction was done from all 30 samples (pooled into 10). NGS-based sequencing (16S rRNA and COI) generated 28 datasets, revealing approximately 1500 OTUs across 37 genera. Two SCI publications/book chapters were produced based on these results.

Studies on Marine Fossils of Dwarka Coast, Gujarat 39

Investigator: Ms. Supriya Nandy

Co-Investigator: Ms. Debashree Dam, Dr. Tamal Mondal, Dr. R. Chandran

Period: April 2023 to March 2026

Status: Ongoing

Objectives:

- To conduct extensive surveys for inventorization of fossils and fossil beds in the area around Dwarka town, Gujarat.
- To identify the collected fossils from the study area.
- To assess the abundance of identified fossil species/groups from fossil beds representing different geological time periods.

Progress:

Two extensive surveys were conducted across 21 fossil sites near Dwarka. About 412 marine invertebrate fossils were collected during the first survey, and 1,154 in the second. Identifications so far include 38 coral fossils (9 species under 6 families) and 146 molluscan fossils (28 species under 18 families), totalling 232 identified specimens. Several new fossil beds with rich faunal remains were discovered, and rock samples have been thin-sectioned for microscopic study. Stratigraphy and rock formations were documented to aid in geological correlation.

Fauna of Nagaland: Phase II 40

Coordinator: Dr. D. Suresh Chand

Investigators: Subject Experts

Period: April 2024 to March 2027

Status: Initiated

Objective:

To document the diversity and distribution of the different faunal groups.

Progress:

Three surveys were conducted across different quarters, yielding a total of 7,620 specimens from 34

faunal groups. Specimens were distributed to respective PIs/Co-PIs with lot numbers. Collections included mammals (2), reptiles (16), amphibians (21), fishes (280), molluscs (331), crustaceans (47), prawns (519), insects, annelids, arachnids, and more. Notable identifications include 2 mammal species, 8 reptile species, 14 Orthoptera species, and 4 Platyhelminth species. Importantly, two new spider species (*Psechrus chizami* and *P. nathanael*) were described. The documentation contributes significantly to baseline faunal data for the region.



Ntangki National Park, Nagaland

Lepidoptera Fauna of Meghalaya 41

Investigator: Dr. Navneet Singh

Co-Investigators: Dr. Rahul Joshi, Mr. Suresh Shah, Mr. Purnendu Mishra, Mr. Jalil Ahmad, Mr. Kaiyum Baskh Mollah, Ms. Ankhi Sarkar and Ms. Anwesha Modak

Period: April 2024 to March 2027

Status: Initiated

Objective:

Survey and inventorisation of Lepidoptera.

Progress:

A total of 3,282 specimens were collected. So far, 183 species and 3 subspecies have been identified, comprising 151 species and 3 subspecies of moths, and 32 species of butterflies. Taxonomic analysis of remaining specimens is ongoing.



A mountain habitat in the Meghalaya

Collembola Fauna of Protected Areas of Kachchh

42

Investigator: Dr. G.P. Mandal

Co-Investigators: Shri K.K. Bhattacharya, Shri K.K. Suman, Smt. S.Verma, Shri K.K. Roy

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- To survey, explore and documentation of collembolan species from Banni Grasslands Reserve, Narayan Sarovar Wildlife Sanctuary (WLS), Kachchh Bastard WLS, Indian Wild Ass WLS, Kachch Desert WLS, Chari-Dhan Wetland Conservation Reserve, including Rann of Kachchh and along the coastal line of Kachchh.
- To provide a consolidated account on the collembolan collection with their diagnosis, keys and distribution maps etc.
- To draw connectedness between the species collected and their habitat. To derive ecological conclusions through collembolan species richness, distribution, diversity and habitat connectedness.

Progress:

One faunistic survey was conducted. Fifty-six specimens belonging to 3 species from 2 genera under 2 families were identified. Soil samples were collected and analyzed for parameters such as pH, EC, organic carbon, N, P_2O_5 , K_2O , S, B, Zn, Fe, Mn, and Cu to examine relationships with Collembola diversity. Preliminary results show soil water salinity had a stronger influence than food salinity, and

Collembola showed osmoconforming behavior at higher salt concentrations. This novel study marks the first detailed taxonomic and ecological exploration of Collembola in Kachchh.



Collembola collections at Kachchh

Taxonomic studies of Ticks (Acari: Metastigmata) of Eastern Ghats

43

Investigator: Dr. Shelley Acharya

Co-Investigator: Dr. Kaomud Tyagi

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- To collect and identify the ticks from all the available and accessible hosts in the study area i.e domestic animals as well as from wild. Collection will be made from NPs, WL Sanctuaries & Wildlife Reserves in major seasons on availability of the permission from concerned authority.
- Taxonomic characterization and preparation of illustrated keys for the studied taxa.
- To prepare a consolidated checklist.
- Development of molecular data of ticks.

Progress:

Surveys were conducted in Satkosia, Chilika, Berhampur, Koraput, and Bhubaneswar regions of Odisha. A total of 547 tick specimens were collected from 10 different wild hosts, including four listed under Schedule species. Fifty-one specimens have been identified to date. Work on molecular data

generation and ethnoveterinary information is ongoing.



Rhipicephalus sanguineus (Latreille, 1806)

Taxonomic Studies on Formicinae (Hymenoptera) of India

44

Investigator: Dr. Sheela S.

Period: April 2024 to March 2027

Status: Initiated

Objective:

To prepare keys and descriptions for every species under the subfamily Formicinae with its distribution in India.

Progress:

A survey conducted in Chhattisgarh yielded approximately 2,000 ant specimens. Of these, 31 species belonging to Formicidae were identified from the region. Additionally, 40 species of Formicinae have been identified so far from the National Zoological Collections, Kolkata. Work on morphological documentation and distribution data is in progress.



Calyptomyrmex friederikae Kutter, 1976

Taxonomy and distribution of Jellyfish along the North-Eastern coast of Arabian Sea

45

Investigator: Dr. Jasmine P.

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- To analyze the diversity and distribution of jellyfish in the north-eastern coastal waters of Arabian Sea.
- To conduct long-term seasonal monitoring and document biological and physico-chemical parameters in major bloom-forming/invasion areas in the north-eastern coast of Arabian Sea.
- To determine the molecular characteristics of selected species of jellyfish.

Progress:

Two marine surveys were conducted one covering Maharashtra and Goa, and another in southern Gujarat. Sixty jellyfish specimens were collected (43 preserved, 17 for molecular analysis). Additional samples include 133 bottles for microzooplankton, 77 for mesozooplankton, and various crustacean and molluscan specimens. Water analysis from locations such as Gorai, Versova, and Vengurla revealed 28 dinoflagellates, 35 ciliates, and 11 foraminifera. Molecular sequences for four jellyfish species have been submitted for accession numbers.

Unveiling Taxonomy and Genetic Diversity of Captive Musk Deer in India

46

Investigator: Dr. Bheem Dutt Joshi

Co-Investigators: Dr. Lalit Kumar Sharma & Dr. Mukesh Thakur

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- Taxonomic assessment of captive musk deer populations in India utilizing morphological and genetic analyses.

- ii. Evaluate the genetic diversity of the captive musk deer populations and compare it with wild populations.
- iii. Develop a tailored captive breeding management program based on the confirmed taxonomic status and genetic diversity data.

Progress:

Two field surveys were completed one in Kedarnath WLS, Uttarakhand, and another in Arunachal Pradesh. In Kedarnath, 25 non-invasive samples were collected (including 10 potential musk deer samples), and DNA extraction was carried out. In Arunachal Pradesh, 55 non-invasive samples from various ungulates were collected and are under analysis. Camera traps set up in musk deer habitats captured images of wild boar, goral, blue sheep, blood pheasant, Himalayan monal, and others. A formal request for non-invasive samples from captive populations has been submitted to the Central Zoo Authority (CZA) and breeding centers; response is awaited. DNA from wild populations has been initiated, while captive population sampling is contingent upon permissions. This data will support genetic assessments crucial for effective conservation planning.

Octocoralian diversity (Malacalcyonace and Scleralcyonacea) from Gulf of Kachchh

47

Investigators: Dr. R. Chandran & Mr. Surendar C.

Period: April 2024 to March 2027

Status: Initiated

Objective:

Inventorisation of fauna (Octocorals and other marine fauna) of Gulf of Kachchh.

Progress:

Two marine surveys covering 41 reef sites in the Gulf of Kachchh were conducted, yielding 419 octocoral specimens. Preliminary identification confirms 20 examples representing 5 species under 5 families and genera. These collections show octocoral distribution up to a depth of 18 meters. With only 9 species previously recorded in the Gulf, the present

study is expected to significantly enhance existing faunal records. A manuscript on Cladiellid octocorals from the Gulf has been submitted for publication.



Echinogorgia stellifera (Thomson & Crane, 1909)

Status survey of two species of Scheduled Marine Mollusca (*Tridacna squamosa* and *Harpago chiragra*) from Andaman and Nicobar Islands

48

Investigator: Dr. Tamal Mondal

Co-Investigator: Dr. C. Raghunathan

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- i. Taxonomic identification and characterization of *Tridacna squamosa* and *Harpago chiragra*.
- ii. Estimation of the density, distribution and population trends of both species.

Progress:

During the reporting period, one survey was conducted in the South Andaman region of the Andaman and Nicobar Islands. A total of 1,073 specimens were collected, representing Porifera (3), Cnidaria (68), Ctenophora (5), Annelida (17), Arthropoda (6), Mollusca (866), Echinodermata (34), Entoprocta (42), and Chordata (32). In total, 409 species were identified, including 176 scleractinian corals, 4 octocorals, 3 zoantharians, 5 sea anemones, 54 molluscs, 41 echinoderms, 17 ascidians, and 109 fishes.

A detailed status survey was undertaken for two marine molluscs, *Tridacna squamosa* and *Harpago chiragra*. An area of 2,10,500 sq. km was assessed, yielding 43 individuals of *T. squamosa* (mean 8.6 per location; density 0.0125–0.041/100 sq.m., mean 0.024) and 54 individuals of *H. chiragra* (mean 18 per location; density 0.031–0.048/100 sq.m., mean 0.044). Habitat assessments revealed that *T. squamosa* was strongly associated with coral reefs, while *H. chiragra* occurred in seagrass beds, sandy substrates, and coral rubble. Ecological documentation included species interactions, predation (notably by crown-of-thorns starfish, octopus, and humans), competition for space, and fishing pressures, alongside measurements of water quality parameters (temperature, salinity, pH, turbidity, and nutrients).

Notably, coral reefs in South Andaman exhibited significant bleaching in 2024, driven by elevated sea surface temperatures and ocean acidification. While some resilience and partial recovery were observed in certain coral species during cooler months, the long-term viability of these reefs remains uncertain. The findings underscore the urgent need for conservation measures, community engagement, and strengthened enforcement to safeguard vulnerable reef ecosystems and associated fauna.

Status Survey of White-Winged Wood Duck (*Asarcornis scutulata*) in Assam and Arunachal Pradesh 49

Investigator: Dr. G. Maheswaran

Period: April 2024 to March 2027

Status: Initiated

Objective:

To determine the current population size and distribution of the White-winged Wood Duck in the survey areas to identify key habitats and breeding sites.

Progress:

A field survey was conducted across Pakke Tiger Reserve, Nameri Tiger Reserve, and Dihing Patkai National Park. The team recorded 109 bird species in

Dihing Patkai, and 49 and 95 species in Nameri and Pakke respectively. Sightings and habitat data of *Asarcornis scutulata* were documented to support future conservation efforts.



White-winged duck *Asarcornis scutulata* (Müller, 1842)

Threatened Reptiles of Eastern Ghats

50

Investigator: Dr. Pratyush P. Mohapatra

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- Status survey of threatened reptiles of the Eastern Ghats.
- Assessment of threats due to habitat loss, poaching, and illegal trade.

Progress:

A field survey was conducted in Odisha. Data was collected on species including Gharial, Mugger, freshwater turtles, Barkud limbless skink, and Araku slender gecko. A total of 50 reptile specimens from 22 species were documented. A distinct *Hemiphyllodactylus* sp. allied to *H. arakuensis* was collected from Koraput, and its formal description is in progress. A review on 28 threatened and 19 data-deficient reptile species was compiled and updates submitted to the IUCN National Red List.

Spatial and Temporal Variability Status of Scleractinian Fauna of Palk Bay

51

Investigator: Dr. N. Marimuthu

Period: April 2024 to March 2027

Status: Initiated

Objective:

Inventorisation of fauna (Scleractinian and other marine fauna) of Palk Bay on spatial and temporal approach.

Progress:

Biophysical assessments and coral surveys were conducted at Munaikadu, Vadakadu, Pisasu Munai, and Olaikudah coasts. A total of 128 specimens of marine fauna, including scleractinian corals, were collected. The surveys aim to evaluate species diversity and reef health across spatial and temporal scales for long-term monitoring of coral ecosystems in the region.



Habitat Palk Bay reef

Studies on the Helminths Parasitic in the Food Fishes of West Bengal – Phase I

52

Investigator: Dr. A.N. Rizvi, Mrs. Anindita Ghosh

Co-Investigator: Dr. Suman Das, Ms. Upasana Bhattacharya

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- To investigate helminthic parasites in food fishes from various water bodies in six districts of southern West Bengal.
- To assess the impact of physicochemical parameters on helminthic infestations.

Progress:

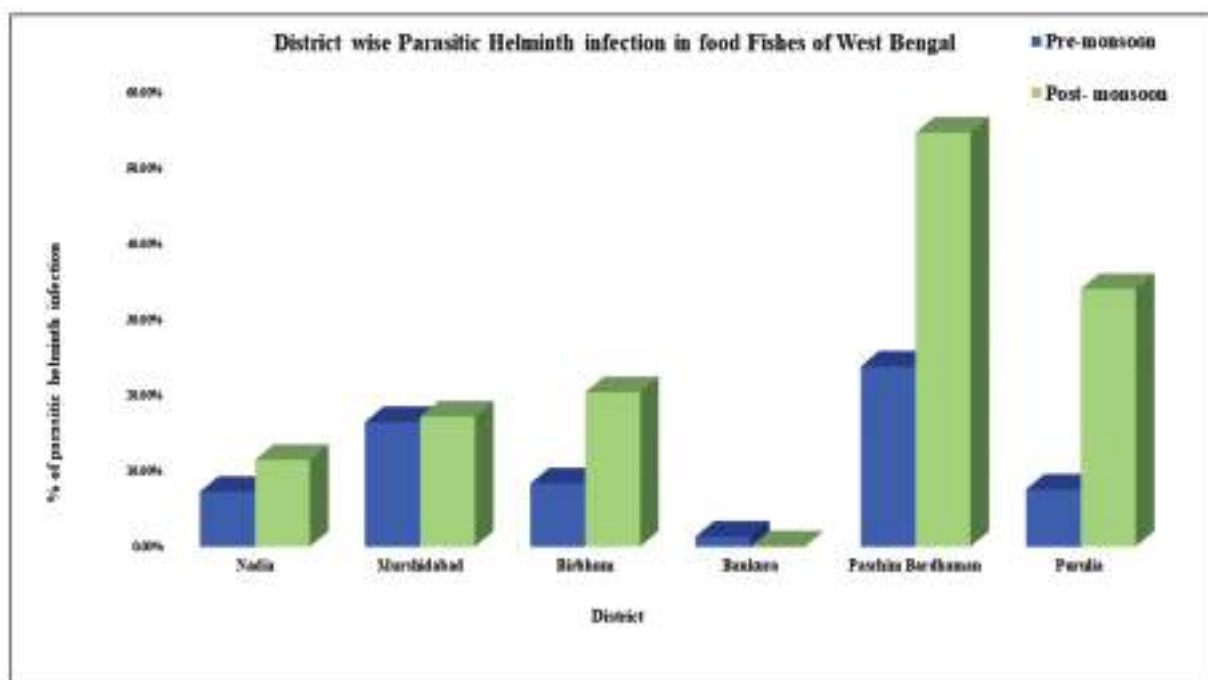
Two seasonal surveys were conducted in six districts of West Bengal Nadia, Murshidabad, Birbhum, Purulia, Bankura, and West Bardhaman to assess helminth infections in food fishes. A total of 742 fish hosts (48 species) were examined, of which 28 species (58.3%) were found infected. Overall infection rate increased from 9% (43/441) in the pre-monsoon survey to 21.5% (65/301) in the post-monsoon survey.

In the pre-monsoon period, 441 fishes were dissected, yielding 216 helminths comprising 127 Trematoda, 72 Nematoda, 11 Cestoda, and 6 Acanthocephala. Post-monsoon dissections of 301 fishes yielded 719 helminths: 533 Trematoda, 75 Nematoda, 55 Cestoda, and 55 Acanthocephala.

In total, 335 helminths were identified to species level, representing 38 species across four groups: Platyhelminthes (26 species; 220 specimens), Acanthocephala (7 species; 28 specimens), and Nematoda (5 species; 87 specimens). Within Platyhelminthes, Trematoda were dominant (24 species; 208 specimens), followed by Cestoda (2 species; 12 specimens).

Trematodes infected 20 fish species (41.6%), with highest prevalence in *Channa gachua* and lowest in *Trichogaster fasciata*. Cestodes were recorded from 10 fish species (20.8%), most abundant in *Mastacembelus armatus* and least in *Puntius sophore*. Acanthocephalans infected four species (8.3%), highest in *Channa gachua* and lowest in *Channa marulius*. Nematodes occurred in 13 species (27%), with highest infections in *Heteropneustes fossilis* and lowest in *Mystus cavasius*.

The study highlights clear seasonal variation, with post-monsoon surveys showing higher infection rates and greater helminth abundance, underscoring the ecological importance of host-parasite interactions in freshwater systems of West Bengal.



Studies on the Helminths Parasitic in the Food Fishes of West Bengal

Invasive and Pest Whiteflies (Hemiptera: Aleyrodidae) of Agro-ecosystems of India

53

Investigator: Dr. Anil Kumar Dubey**Period:** April 2024 to March 2027**Status:** Initiated**Objectives:**

- To develop a monograph on invasive alien and pest whiteflies of India.
- To describe biological stages with illustrations.
- To establish adult morphology-based identification.

Progress:

A 12-day survey in Karnataka (33 GPS points) yielded 1322 whitefly specimens from crops like coconut, arecanut, and sugarcane. Puparia and adult stages of invasive and pest species were mounted and imaged. Preliminary findings include two pest whiteflies damaging coconut and a Palearctic whitefly from a woody climber. A monographic database is under development.



Collection of whiteflies

Aquatic Insects of Gangetic Plains

54

Investigator: Dr. Swetapadma Dash

Co-Investigators: Dr. T. Kubendran, Dr. Devanshu Gupta

Period: April 2024 to March 2027

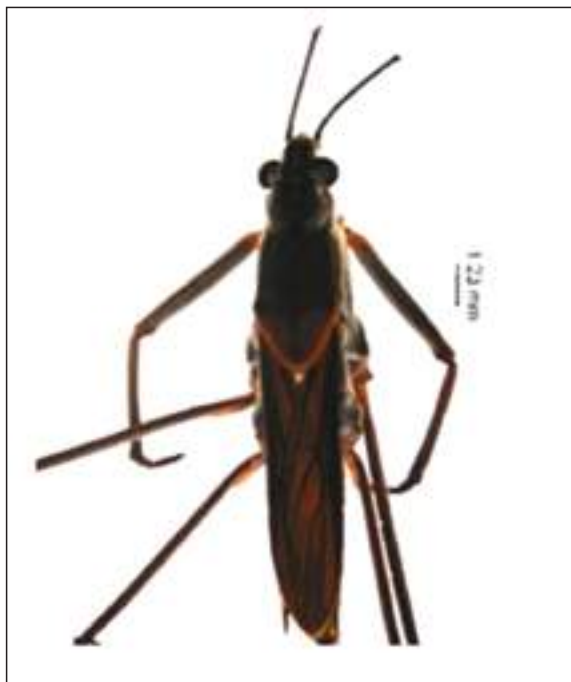
Status: Initiated

Objective:

Survey, exploration and inventorying of aquatic insects of the Gangetic plain.

Progress:

During the reporting period, two surveys were conducted and yielded over 11,000 specimens, including 3336 Coleoptera and Hemiptera and 8059 from 12 aquatic insect groups. Key findings include first records of 5 aquatic Hemiptera species from the region. Preliminary identifications are underway, with focus on ecological diversity and distribution patterns.



Aquarius adelaides (Dohrn, 1860)

Dorylaimida (Nematoda) of Central Himalaya

55

Investigator: Dr. Debabrata Sen

Co-Investigators: Dr. G. P. Mandal, Mr. S. Deb Roy

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- Explore Dorylaimida fauna of Darjeeling–Sikkim montane forests.
- Describe new species and report new records.
- Prepare a consolidated document of regional Dorylaimida.
- Investigate altitudinal and seasonal variation in nematode populations.

Progress:

Two surveys in Darjeeling and Sikkim resulted in 67 soil samples. Sample processing, slide preparation, and species identification are ongoing. So far, 11 specimens representing 3 species have been identified and registered.

Rotifer Diversity and Distribution in East Kolkata Wetlands, West Bengal (RAMSAR Site)

56

Investigator: Dr. Chitra J.

Period: April 2024 to March 2027

Status: Initiated

Objective:

To explore the rotifer diversity along with seasonal variation in East Kolkata Wetlands.

Progress:

Three surveys were completed across 35 localities in North 24 Parganas, South 24 Parganas, and Kolkata. Water and zooplankton samples were analyzed, revealing 40 rotifer species under 19 genera and 10 families. Seasonal variability and water quality parameters were recorded.



09

Research Programmes: Regional Centres.

The 16 Regional Centres of ZSI, spread across the country, undertake research on the fauna of various States and Union Territories, as well as on conservation areas and ecosystems under their jurisdiction. During the reporting year, the Regional Centres were engaged in 66 research programmes, of which 28 were completed, 19 were ongoing, and 19 were newly initiated.



NORTHEASTERN REGIONAL CENTRE (NERC), SHILLONG, MEGHALAYA



The North Eastern Regional Centre, Shillong is the first of the 16 Regional Centres of the Zoological Survey of India established on 6th March, 1959 with the primary objective of exploring and documenting the faunal diversity of the northeastern region of India. The Centre's jurisdiction extends over six North East Indian states of Assam, Manipur, Meghalaya, Mizoram, Nagaland and Tripura. The North-East India biogeographic zone covering these six states constitutes about 5.2% of the total geographic area of the country. This region is situated in the transition zone of the Palearctic and Indomalayan biogeographic realm and constitutes parts of Indo-Burma biodiversity hotspots.

The Centre is engaged in documenting the myriad diversity of animal life forms in this biologically rich region. To date, 121 research programmes covering various aspects of faunal diversity in the Northeastern states have been completed by the Centre. The scientists of the Centre published over 400 research papers, books and book chapters in various national and international journals and books of repute. At present, Centre is handling several research programmes in the states of Assam, Manipur and Mizoram. The Centre maintains a museum exhibiting the faunal wealth of the northeastern region and also holds a collection of about 111,000 identified specimens and over 1,65,000 unidentified specimens representing various faunal groups. There are three ongoing projects at the Centre at present.

Exploring the Subterranean biodiversity in selected caves of Meghalaya state (Phase I, East Khasi Hills) 01

Investigator: Dr. Uttam Saikia

Period: April 2022 to March 2025

Status: Completed

Objective: To study the Subterranean biodiversity in selected caves of Meghalaya state.

Outcome: A survey was conducted across five caves and yielded 91 target and 232 non-target faunal specimens. An additional 16 specimens were collected during a local survey at cave Lympit in January 2025. In total, 267 specimens representing 46 species were identified. Five more genera were recorded through photographs.

Significant findings: One possible new frog species and two spider species new to India are under investigation.



Cave Lewlah

Studies on the taxonomy and diversity of edible Amphibians of North East India, Phase I: Assam, Manipur, Meghalaya & Nagaland 02

Investigator: Dr. Bikramjit Sinha

Period: April 2022 to March 2025

Status: Completed

Objective: To study the taxonomy and diversity of edible Amphibians of North East India: Assam, Manipur, Meghalaya & Nagaland.

Outcome: The study expanded the known edible amphibians in the region from 11 to 30 species. Among these, 12 belong to Ranidae, 9 to Dicroglossidae, 5 to Megophryidae, and 4 to Rhacophoridae. Ten of these are endemic, one critically endangered, two endangered, one vulnerable, and one near threatened. About 50% are listed under Schedule II of the Wildlife (Protection) Amendment Act, 2022. Surveys covered 33 tribes across the four states.



Amolops marmoratus (Blyth, 1855)

Faunal diversity of Dibru-Saikhowa Biosphere Reserve, Assam

03

Investigator: Mrs. Jennifer Lyngdoh

Period: April 2022 to March 2025

Status: Ongoing

Objective: To document the Faunal diversity of Dibru-Saikhowa Biosphere Reserve, Assam.

Progress: A 10-day survey was conducted. A total of

4,681 specimens and 114 water/soil samples from various faunal groups were collected. Of these, 2,333 specimens were registered at NERC, Shillong, and distributed to subject experts, while 2,348 specimens and 114 samples were sent to HQ. Identification lists were requested from concerned.



Dibru-Saikhowa Biosphere Reserve

A systematic study of the bat fauna of Mizoram state, Northeastern India

04

Investigator: Dr. Uttam Saikia

Period: April 2023 to March 2026

Status: Ongoing

Objective: To study the bat fauna of Mizoram state.

Progress: A field survey was conducted in Mamit, Aizawl, and Kolasib districts. A total of 48 bat specimens and 1,960 non-target specimens were collected. Eight specimens representing seven bat species were identified.



Round-eared Tube-nosed Bat
Murina cyclotis Dobson, 1872

2

WESTERN REGIONAL CENTRE (WRC), PUNE, MAHARASHTRA



The Western Regional Centre (WRC) is one of the first formed regional centers of ZSI, which was established at Pune, Maharashtra in September 1959. The center now completed 66 years (1959-2025). The primary objective of this setup is to explore and document faunal diversity in its area of jurisdiction. WRC has completed various research programmes, including the Fauna of India (Scorpiones and Araneae), the Fauna of Ecosystem (Nathsagar wetland, Ujani wetland, and Northern Western Ghats), State Fauna (Maharashtra and Goa), Wildlife Sanctuaries (Bhimashankar, Koyna, Lonar, Phansad, Radhanagari and Koyna), National Parks (Chandoli, Navegaon, Pench, and Sanjay Gandhi), Tiger Reserves (Melghat and Tadoba-Andhari), Navegaon National park and Status surveys (Indian Edible Nest Swiftlet and Western Tragopan). New taxa from various animal groups (Brachyura, Araneae, Opiliones, Scorpiones, Schizomids, Coleoptera, Lepidoptera, Diptera, Ephemeroptera, Hymenoptera, freshwater fishes, Amphibia, Reptilia, and Rodentia) that include over 210 new species, some new genera and one sub-family have been described by the scientists of the centre. The total holdings of National Zoological Collections in Western Regional Centre is 2,31,167 as on March 2025. The collection includes type specimens of 571 belonging to new species and new records for state described by scientists of ZSI and other organisations, deposited in the NZC of WRC, ZSI, Pune and donated specimens from individuals and other institutes. A museum, displaying nearly 990 specimens, serves to educate and generate awareness on faunal diversity and habitat. WRC has also a DNA Barcoding laboratory, which has generated more than 600 DNA barcodes. The library of this center holds more than 4,937 books and 17,746 journals. WRC researchers have published a long list of books, book chapters, research articles, research notes, taxonomic reviews, monographs, catalogues, etc. Western Regional Centre renders identification and advisory services of various animal groups to students, teachers and researchers on regular basis. Certificate of identification of confiscated wildlife, animal skins, body parts etc. are regularly provided for identification to various legal and law enforcement bodies, Forest Department, Crime branch, Maharashtra Police etc. Identification reports help these agencies in prosecution of or punishing the culprits involved in illegal trade. Western Regional Centre also provides workshops and training to students and researchers on regular basis. We also provide Research guidance to scholars.

Faunal diversity of Kali Tiger Reserve, Karnataka

01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2021 to March 2024

Status: Completed

Objective: To ascertain the faunal diversity of Kali Tiger Reserve, Karnataka

Outcome: The first survey yielded 1,490 specimens across 26 faunal groups. The second survey yielded 1,061 specimens across 30 groups. In total, 1,936 specimens belonging to 226 species under 17 groups were identified.

A new freshwater crab species (*Ghatiana dvirupa*) was discovered. One research paper was published, and another accepted in SCI journals. In all, 536 additional specimens across six faunal groups were observed during surveys.



Anax immaculifrons Rambur, 1842

Faunal diversity of Daroji Sloth Bear Sanctuary, Karnataka

03

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objective: To ascertain the faunal diversity of Daroji Sloth Bear Sanctuary, Karnataka.

Outcome: A total of 3,149 specimens representing 244 species under 187 genera from 15 faunal groups were recorded from the sanctuary.



Chamaeleon Chamaeleo zeylanicus Laurenti, 1768

Faunal diversity of Bhagwan Mahaveer Sanctuary and Mollem National Park, Goa

02

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objective: To ascertain the faunal diversity of Bhagwan Mahaveer Sanctuary and Mollem National Park, Goa

Outcome: Two surveys were conducted: the first collected 1,248 specimens (30 groups), and the second collected 826 specimens (21 groups). A total of 1,540 specimens from 14 faunal groups were identified.

Significant findings: 2,507 specimens representing 361 species under 257 genera of 15 faunal groups were identified. New state records of Sericine chafer beetles include *Maladera keralensis*, *M. burmeisteri alternans*, and *Neoserica grvida*.

Status, distribution and diversity of butterflies of the Western Ghats with their Mitochondrial DNA barcode studies 04

Investigator: Dr. Md. Jafer Palot

Period: April 2022 to March 2025

Status: Completed

Objective: To understand the diversity of butterflies of the Western Ghats with their Mitochondrial DNA barcode studies.

Outcome: A field survey in Karnataka and Kerala recorded 1,106 specimens across 21 groups. DNA sequencing and cleaning of 20 mitochondrial COI barcodes were completed. Sequences of six species were submitted to GenBank. 110 specimens from 36 species under 3 groups were identified.



Blue Mormon *Papilio (agenor) polymnestor* Cramer, 1775

Cataloguing of Coleoptera: Aquatic Beetles present in the National Zoological Collection of Western Regional Centre, ZSI, Pune (Non-Survey Based) 05

Investigator: Mrs. Rita Deb

Period: April 2022 to March 2025

Status: Completed

Objective: Cataloguing of aquatic beetles present in the NZC of ZSI, WRC, Pune.

Outcome: Identified specimens were digitized with geo-coordinates and locality details. During 2024–2025, 1,293 specimens across 6 families, 28

genera, and 62 species were identified. The full catalogue includes 12,097 specimens under 2925 registration numbers from 7 families, 40 genera, and 114 species.

Phylogenetic studies on the Caecilians (Class: Amphibia, Order: Gymnophiona) of India 06

Investigator: Dr. K.P. Dinesh

Period: April 2024 to March 2027

Status: Initiated

Objective: Phylogenetic studies on the Caecilians. Progress: Literature review is ongoing. DNA barcode sequences from GenBank are being compiled. Communication initiated with nine Indian museums/labs to obtain details on caecilian holdings.

Faunal Diversity of Kalsubai Harishchandragarh Wildlife Sanctuary, Ahmednagar 07

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2024 to March 2027

Status: Initiated

Objective: To ascertain the faunal diversity of Kalsubai-Harishchandragarh Wildlife Sanctuary, Ahmednagar

Progress: Two surveys were conducted: the first collected 1,133 specimens (35 groups), and the second collected 1,707 specimens (27 groups). A total of 252 specimens from 32 species under 10 groups have been identified.



Habitat at Kalsubai Harishchandragarh Wildlife Sanctuary

CENTRAL ZONE REGIONAL CENTRE (CZRC), JABALPUR, MADHYA PRADESH



The Central Zone Regional Centre of the Zoological Survey of India was established at Jabalpur on 24th February 1960 under the framework of the Second Five-Year Plan, with the mandate to conduct systematic surveys and documentation of the faunal diversity of Central India. The jurisdiction of the Centre encompasses two states: Madhya Pradesh, comprising 53 districts and encompassing 10 National Parks, 25 Wildlife Sanctuaries, 6 Tiger Reserves, and 3 Biosphere Reserves; and Chhattisgarh, comprising 28 districts with 3 National Parks, 10 Wildlife Sanctuaries, 3 Tiger Reserves, and 1 Biosphere Reserve (shared with Madhya Pradesh). The Centre houses a National Zoological Collection comprising 158,456 specimens, of which 92,325 have been taxonomically identified, while 66,131 unidentified specimens. A faunal museum is maintained at the Centre, displaying 823 curated exhibits representing 438 species, reflecting the region's rich and varied biodiversity. Since its inception, the Centre has successfully executed 44 research programmes focused on faunal inventories across both protected and non-protected habitats within Madhya Pradesh and Chhattisgarh. The centre has been awarded with the ISO 9001:2015 certificate in year 2023. At present, the Centre is engaged in three ongoing research programmes and one externally funded project. In addition to research activities, the Centre contributes to capacity building and public outreach through species identification services, expert consultations, academic lectures, and participation in public exhibitions.

Faunal diversity of protected areas of Madhya Pradesh w.r.t. Gandhisagar, Ratapani, Palpur and Kuno Wildlife Sanctuaries including Sehore and Raisen

01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2021 to March 2024

Status: Completed

Objective : To study Faunal diversity of protected areas of Madhya Pradesh w.r.t. Gandhisagar, Ratapani, Palpur and Kuno Wildlife Sanctuaries including Sehore and Raisen

Outcome: The study recorded 672 species from 14 faunal groups in Gandhisagar Wildlife Sanctuary, 737 species from 15 faunal groups in Ratapani Wildlife Sanctuary, and 629 species from 16 faunal groups in Kuno National Park. Identification and documentation of fauna across these protected areas were completed.



Gaur *Bos gaurus* (Smith, 1827)

Faunal Diversity of Panna Biosphere Reserve, Dist. Panna, Madhya Pradesh

02

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objective: To study Faunal diversity of Panna Biosphere Reserve, including the Gangu Sanctuary

and the Reserved and Protected Forests of the North Panna Forest Division

Progress: A survey was conducted, yielding 1,384 specimens across 32 faunal groups. The study documented 910 species across 612 genera and 223 families within 18 faunal groups, including detailed records for groups such as Lepidoptera (butterflies and moths), Odonata, Coleoptera, Hemiptera, Mollusca, Pisces, Amphibia, Reptiles, Aves, and Mammals.



Sambar *Rusa unicolor* (Kerr, 1792)

Faunal Diversity of Bori Wildlife Sanctuary, Dist. Narmadapuram, Madhya Pradesh

03

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2023 to March 2026

Status: Ongoing

Objective: To study Faunal diversity of Bori Wildlife Sanctuary

Progress: Two surveys were completed: 1,087 specimens belonging to 31 groups and 1,498 specimens belonging to 21 groups. So far, 1,085 specimens representing 251 species have been identified and registered. This includes butterflies (25 species), moths (58), Hemiptera (60), Odonata (7), Mollusca (5), Pisces (10), Amphibia (6), Aves (45), and Mammals (21). Further identification is under progress.



Asian Wild Dog *Cuon alpinus* (Pallas, 1811)

Faunal diversity of Kheoni Wildlife Sanctuary, Madhya Pradesh

04

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2024 to March 2027

Status: Initiated

Objective: To study Faunal diversity of Kheoni Wildlife Sanctuary, Distt. Dewas & Dist. Sehore, Madhya Pradesh

Progress: A survey was assigned and is currently being conducted.



Asian Wild Dog *Cuon alpinus* (Pallas, 1811)

Studies on the distribution and documentation of amphibians of Veerangana Durgavati Wildlife Sanctuary, Madhya Pradesh

05

Investigator : Dr. Saipari Sailo

Period: April 2024 to March 2027

Status: Initiated

Objective: To study the distribution and documentation of amphibians of Veerangana Durgavati Wildlife Sanctuary, Madhya Pradesh

Progress: Awaiting survey and collection permission from PCCF (Wildlife), Madhya Pradesh.

Fossil fauna of upper stretch of Narmada basin Phase-I

06

Investigator : Dr. Sandeep Kushwaha

Period: April 2024 to March 2027

Status: Initiated

Objective: Fossil fauna of upper stretch of Narmada basin Phase-I

Progress: A total of 80 fossil specimens were collected. Identification and further analysis are currently in progress.

4

DESERT REGIONAL CENTRE (DRC), JODHPUR, RAJASTHAN



The Desert Regional Centre (DRC) of the Zoological Survey of India, Jodhpur was established in June, 1960 in the name of Desert and Gangetic Plains Regional Station under Second Five-Year Plan to survey the faunal diversity of Desert Biome. Later, in 1965 due to the characteristic changes in its boundaries, it was renamed as at present DRC. The Jurisdiction of the Centre is spread over 3,42,239 Sq. km. area of Rajasthan and 1,96,024 sq. km. of Gujarat, covering 53 districts of Rajasthan and 33 districts of Gujarat State. The area encompasses nine National Parks, 48 Wildlife Sanctuaries, 14 Conservation Reserves, three Tiger Reserve, one Biosphere Reserve and six Ramsar Sites. The state of Gujarat has a coastline of 1596 kms. as part of the west coast of India. The Centre is engaged in the documentation of the rich and diverse faunal resources of the Rajasthan and Gujarat states by conducting field explorations and scientific studies. So far 3346 species of animals are known from the desert biogeographic zone of India. The total holdings of the Centre include 530473 specimens with 108127 Identified specimens and 422346 unidentified specimens. So far, 29 species have been described as new to science by the scientists of this Regional Centre. Other than this, 39 Books and more than 904 research papers have been published in various national/ international journals by scientists. The center maintains a Natural History Museum depicting the rich and diverse faunal wealth of the Desert Ecosystem. 1012 visitors including more than 681 students from various schools, colleges and universities visited museum of the Centre. The Centre also extended identification and advisory services by delivering lectures and participated in public exhibitions under the reporting period. During the year 2024-25, Centre was engaged in seven research programmes of which four has been completed, three ongoing and beside this one externally funded research project under NMHS has been completed and one project under CRG (Core Research Grant) funding from SERB, Govt. of India is ongoing.

Studies on the Faunal Diversity of Mount Abu Wildlife Sanctuary, Rajasthan 01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- Survey, exploration and monitoring of faunal diversity from the Mount Abu Wildlife Sanctuary, Rajasthan.
- Taxonomic studies of the fauna collected.
- Observe/ record the Herpeto fauna, aves, mammal species of the Sanctuary.
- New Species/New record if any.
- Documentation of the fauna of the Mount Abu Wildlife Sanctuary Rajasthan.
- Scientific Recommendations/ suggestions for habitat improvement for conservation of threatened faunal species, if any.

Progress: Two surveys were conducted, resulting in 3,968 specimens from 26 faunal groups. Identifications include: Hymenoptera (21 species), Mantodea (3), Coleoptera (23), Lepidoptera (17), Hemiptera (22), Gastropoda (4), and Pisces (12). Vertebrate fauna recorded included 4 Amphibians, 12 Reptiles, 112 bird species, and 10 mammals. 102 species from 7 invertebrate groups and 138 vertebrate species have been identified.



Hypolimnas bolina (Linnaeus, 1758)

Studies on the Faunal Diversity of Todgarh-Raoli Wildlife Sanctuary, Rajasthan 02

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- Survey, exploration and monitoring of faunal diversity from the Todgarh-Raoli Wildlife Sanctuary, Rajasthan.
- Taxonomic studies of the fauna collected. To Observe/ record the Herpeto fauna, aves, mammal species of the Sanctuary.
- New Species/New record if any.
- Documentation of the fauna of the Todgarh-Raoli wildlife sanctuary Rajasthan.
- Scientific Recommendations/ suggestions for habitat improvement for conservation of threatened faunal species if any.

Progress: Two surveys were conducted. A total of 2,278 specimens from 17 faunal groups were collected. Identifications include: Hymenoptera (19 species), Hemiptera (21), Coleoptera (24), Lepidoptera (42), Orthoptera (1), Mollusca (4), and Pisces (9). 120 species from 8 faunal groups have been identified and digitized for RFD.



Landscape - Todgarh-Raoli WLS, Rajasthan

Studies on the Faunal Diversity of Gir National Park and Wildlife Sanctuary, Gujarat 03

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- i. Survey, Inventorization and documentation the faunal diversity of Gir National Park Wildlife Sanctuary.
- ii. Taxonomic studies of the fauna collected.
- iii. New Species/New record if any.
- iv. Observe/ record the Herpetofauna, Aves,

Mammal species of the Sanctuary. Assessment of the threatened/endangered faunal species of the Gir National Park and Wildlife Sanctuary. Threats and Conservation measures, if any.

Progress: A comprehensive survey was conducted. A total of 3,351 specimens from 21 faunal groups were collected and registered. Identified taxa include: Hymenoptera (7 species, 2 families), Lepidoptera (11 species, 4 families), Gastropoda (3 species, 2 families), and Pisces (3 species, 2 families). Further identification and analysis are in progress.



Landscape at Gir National Park, Gujarat

NORTHERN REGIONAL CENTRE (NRC), DEHRADUN, UTTARAKHAND



The Northern Regional Centre was established in August 1960 under the Second Five-Year Plan of the Government of India. Over the decades it is working to fulfill its mandate to explore and document the fauna of four north Indian states namely Uttarakhand, Uttar Pradesh, Punjab and Haryana and two Union Territories *i.e.* Chandigarh and Delhi NCR, covering an area of c.446441 km². The region comprises ecologically diverse areas ranging from the Western Himalayas in the north with Shivalik ranges at the base, through Gangetic Plains with Terai in the north and Bundelkhand in the south, and the part of the Aravallis in the southwest with equally diverse biodiversity in its one Natural World Heritage Site (Nanda Devi and Valley of Flowers National park), one Biosphere Reserve and UNESCO World Heritage Site (Nanda Devi), four Tiger Reserves (Corbett, Dudhwa, Pilibhit and Rajaji), three Elephant Reserves, nine National Parks, fifty-seven Wildlife Sanctuaries, ten Conservation Reserves, nineteen RAMSAR sites and twenty-eight Important Bird Areas. During the last few years, the centre has adopted modern approaches in the field of taxonomy and faunal exploration, and well-equipped modern labs and faunal repositories with state-of-art facilities for investigations in taxonomy, systematics and faunal documentation have been established. The centre holds a rich collection of various faunal groups. Total holdings of the centre include 4,20,586 (Identified specimens: 3,31,353; Unidentified specimens: 89,233) specimens including 341 type specimens available in the National Zoological Collection of NRC. The centre has published documents on Fauna of four states namely Uttarakhand, Uttar Pradesh, Punjab, Haryana and one Union Territory Delhi NCR, Fauna of Protected areas, Fauna of Western Himalaya, seven Environmental Impact Assessment studies, four Status surveys of Endangered species, two Green Skill Development Programme courses, four National Conferences, thirty-eight Training Programmes and about 879 research papers in National and International journals.

Fauna of Kedarnath Wildlife Sanctuary, Uttarakhand

01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objective: To document the fauna of Kedarnath Wildlife Sanctuary, Uttarakhand.

Outcome: Four extensive surveys were conducted, yielding 3,995 specimens from 18 faunal groups. Key identifications include 24 species of Orthoptera, 176 of Lepidoptera, 22 of Phthiraptera, 14 of Odonata, 13 of Coleoptera, and 12 species of Amphibia. Additionally, 22 species of Reptilia, 81 of Aves, and 15 of Mammals were recorded. The Final Technical Report and manuscript have been submitted.

Significant findings: First records from the sanctuary include 29 species of butterflies, 22 of Phthiraptera, 14 of Odonata, and 13 of Coleoptera.



Common Yellow Swallowtail *Papilio machaon* Lineasus, 1758 at Kedarnath Wildlife Sanctuary

Faunal diversity of Khol Hi-Raitan (Morni Hills) Wildlife Sanctuary, Haryana

02

Investigators : Dr. K.A. Subramanian, Dr. R. Babu, Dr. Gaurav Sharman and Dr. Bikramjit Sinha

Period: April 2022 to March 2025

Status: Completed

Objective: To document the fauna of Khol Hi-Raitan (Morni Hills) Wildlife Sanctuary, Haryana.

Outcome: Four surveys resulted in 1,736 specimens from 16 faunal groups. Identified species include 18 Orthoptera, 62 Lepidoptera, 22 Phthiraptera, 24 Odonata, 8 Coleoptera, 7 Amphibia, 22 Reptilia, 104 Aves, and 10 Mammals. The Final Technical Report and manuscript have been submitted.

Significant findings: Four Lycaenid butterfly species are new additions to Haryana's fauna. First records for several insect, amphibian, and reptilian taxa in the sanctuary.



Wetland at Khol hi-Raitan Wildlife Sanctuary, Haryana

Faunal diversity of Abohar Wildlife Sanctuary, Punjab

03

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objective: To document the fauna of Abohar Wildlife Sanctuary, Punjab.

Outcome: Five surveys yielded 1,280 specimens from 14 faunal groups. Notable identifications include 14 Orthoptera, 32 Lepidoptera, 13 Phthiraptera, 21 Odonata, 3 Coleoptera, 7 Amphibia, 18 Reptilia, 96 Aves, and 6 Mammals. Several first-time records for the sanctuary, including all listed Orthoptera, Lepidoptera, Phthiraptera, Odonata, Coleoptera, Amphibia, and Reptilia species. The Final Technical Report and manuscript have been submitted.



Common Yellow Swallowtail *Papilio machaon* Lineasus, 1758 at Kedarnath Wildlife Sanctuary

Fauna of Gangotri National Park, Uttarakhand

04

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2024 to March 2027

Status: Initiated

Objective: To document the fauna of Gangotri National Park, Uttarakhand.

Progress: One extensive survey was conducted, collected 652 specimens belongs to 11 faunal groups. Identified taxa include 16 species of Lepidoptera, 4 of Odonata, 2 of Reptilia, 38 of Aves, and 6 of Mammals.



Gangotri National Park-Field Survey Team

6

SOUTHERN REGIONAL CENTRE (SRC), CHENNAI, TAMIL NADU



The Southern Regional Centre was established during the 2nd Five Year Plan on 9th March 1961 to conduct faunal explorations in southern peninsular India. The jurisdiction of the centre cover entire Tamil Nadu, Southern Karnataka, Southern Andhra Pradesh and Union Territory of Puducherry which is about 1,50,000 Km². All protected areas within this jurisdiction is covered by the centre which comprise of three biosphere reserves, nine tiger reserves, 9 National Parks and 43 wildlife sanctuaries. The region under the jurisdiction covers all ecosystems of southern Western Ghats and southern Deccan province. The region is also one of the global biodiversity hotspots with several endemic and endangered species and some of the world-renowned protected areas are located here. The most significant contribution of the center is the scientific inputs it provided for the establishment of Silent Valley National Park (Palakkad, Kerala) and Nilgiri Biosphere Reserve (Tamil Nadu, Kerala and Karnataka). These protected areas were established based on the explorations conducted by the scientists of the centre a few decades ago. The centre has significantly contributed towards the discovery of several new species of amphibians, freshwater fishes, aquatic hemipterans, dipterans, mayflies and dragonflies from peninsular India. Currently, the centre is equipped with state of the art light microscopy facility, DNA laboratory, GIS facility, library and other scientific infrastructure to conduct studies on faunal diversity. Several national projects sponsored by MoEF&CC, DST and Forest Department are operationalized through the Centre. During 2024-25 the centre has completed documentation fauna of the Meghamalai wildlife sanctuary, Aghastyamalai biosphere reserve and Satyamanagalm Tiger Reserve. During the year, 39 research papers, 4 book chapters and 13 faunal of India Checklists were published. A Total 350 DNA sequences belonging to 59 species were generated. Twelve new species and eight new records belonging to Ephemeoptera and Psocoptera were published. Four students submitted their Ph.D. thesis.

Fauna of Conservation Area: Fauna of Sathyamangalam Tiger Reserve

01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Ongoing

Objective: To document the faunal diversity in the Sathyamangalam Tiger Reserve.

Progress: Identified 53 fish specimens (18 species, 12 genera, 4 orders, 7 families); 32 rotifers (14 species, 9 genera, 1 order, 8 families); 46 cladocerans (16 species, 11 genera, 2 orders, 4 families); 17 rhizopods (9 species, 7 genera, 1 order, 5 families); and 59 ostracods (7 species, 5 genera, 1 order, 1 family). Additional records include 2 mayfly species, 54 odonates, 5 psocopterans, 164 birds, 31 mammals, 6 gall midges, 68 butterflies, 8 cicadellids, 1 freshwater crab, 6 cockroaches, and 72 land molluscs.

One new species of bark louse *Hemipsocus menoni* Ramesh, Babu & Subramanian, 2025 and one mayfly *Thalerosphyrus sartorii* Vasanth, Kubendran & Subramanian, 2025 were described. A damselfly, *Lestes pulcherimus* Fraser, 1924, was rediscovered after its original description. Two caddisflies (*Chimarra godagama* Schmid 1958, *Chimarra actinifera* Schmid 1958) were recorded for the first time from India. Twelve DNA sequences were generated for 8 fish species.



Bonnet Macaque *Macaca radiata* (E. Geoffroy, 1812)

Status Survey: Current Status and Distribution of Endemic Odonata (Insecta) of India

02

Investigators: Dr. K.A. Subramanian, Dr. R. Babu, Dr. Gaurav Sharma, Dr. Bikramjit Sinha

Period: April 2022 to March 2025

Status: Ongoing

Objective: To assess the current status of endemic species of Odonata from India.

Progress: One survey in Garo Hills, Meghalaya collected 660 specimens, documenting 53 species in 37 genera across 9 families. Data compiled for 189 endemic species, including taxonomy, type details, distribution, and habitat.

Status Survey of Forest Cane Turtle, *Vijayachelys sylvatica* (Henderson, 1912) and Travancore Status Survey of Forest Cane Turtle, *Vijayachelys sylvatica* (Henderson 1912) and Travancore Tortoise, *Indotestudo travancorica* (Boulenger, 1907) endemic to Western Ghats, India

03

Investigator: Dr. Varadaraju

Period: April 2022 to March 2025

Status: Ongoing

Objective:

- To study and assess the status of forest cane turtle (*Vijayachelys sylvatica*) and Travancore tortoise (*Indotestudo travancorica*) in the Western Ghats.
- To estimate populations in reserve forests and protected areas.

Progress: Three surveys conducted in Karnataka, Kerala, and Tamil Nadu recorded 8 Travancore tortoises (2 in Karnataka, 4 in Kerala, 2 in Tamil Nadu). No cane turtles were sighted.



Travancore Tortoise, *Indotestudo travancorica*
(Boulenger, 1907)

Fauna of Anamalai Tiger Reserve, Tamil Nadu

04

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2023 to March 2026

Status: Ongoing

Objective: To document the faunal diversity in the Anamalai Tiger Reserve.

Progress: Two surveys yielded 10,392 specimens across multiple taxa. Identified 8 fish species (5 genera, 1 order, 4 families), 9 psocopterans (7 genera, 5 families), 12 cicadellids, 9 cockroaches, 27 odonates, 100 butterflies, 15 mayflies, 56 land molluscs, 267 birds, and 22 mammals. One new psocopteran, *Hemipsocus mockfordi* Ramesh, Babu & Subramanian, 2025, was described.



Asiatic Elephant *Elephas maximus* Linnaeus, 1758

Phylogeography of Nilgiri Langur (*Semnopithecus johnii*) in Western Ghats, Southern India

05

Investigator: Dr. Ranjana

Period: April 2023 to March 2026

Status: Ongoing

Objective: To estimate genetic variability, gene flow, and population structure of Nilgiri langur sub-populations using multiple molecular markers; to assess phylogenetic relationships with related species; and to identify possible hybrids within the distribution range.

Progress: Surveys across eight sanctuaries and parks in Kerala yielded faecal and hair samples from Nilgiri langurs and 9 other mammal species. Collected 450 faecal samples, processed 314 for DNA isolation, and generated 173 sequences (D-loop, Cytb, COI).

Biodiversity of Hotspot Tropical Rainforest Ecosystem – Western Ghats (Gap Areas in Research)

06

Investigator: Dr. K.A. Subramanian

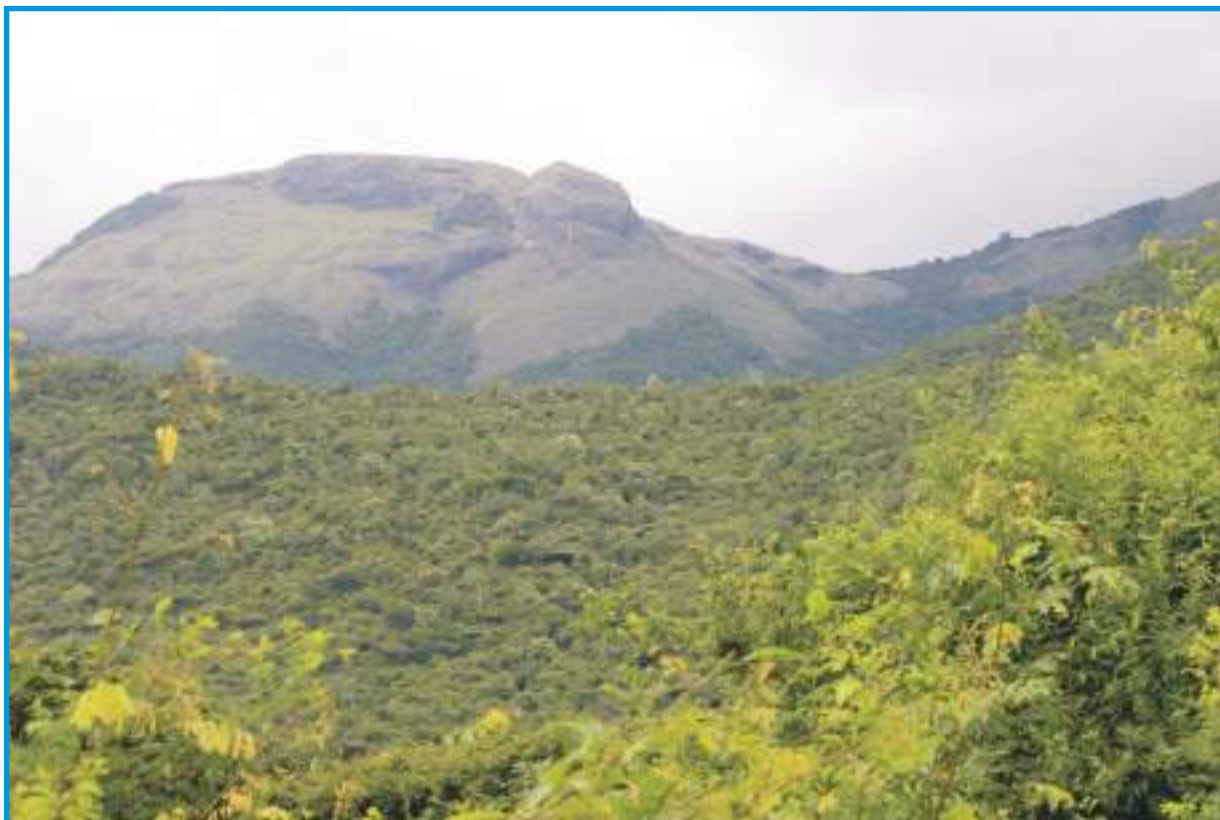
Co-Investigators: Dr. V.D. Hegde, Dr. R. Babu, Shri G. Ramesh, Dr. Praveen K., Dr. Senraj M., Dr. Girish Kumar, Dr. Basudev Tripathy, Dr. Dinesh K.P., Dr. Jafer Palot, Dr. Sameer Kumar Pati, Dr. Pratyush Mahapatra, Dr. Souvik Sen, Dr. Atanu Naskar

Period: April 2024 to March 2027

Status: Initiated

Objective: To document the faunal diversity in gap areas of the Western Ghats.

Progress: Two surveys yielded 4,378 specimens. Identified 3 psocopterans and 16 odonates. Further identification is in progress.



Tropical Rainforest Ecosystem – Western Ghats

Status and Distribution of Indigenous and Invasive Alien Freshwater Fishes of Ramsar Sites of Tamil Nadu

07

Investigators: Dr. K.A. Subramanian, Dr. R. Babu, Dr. Gaurav Sharma and Dr. Bikramjit Sinha

Period: April 2024 to March 2027

Status: Initiated

Objective: Morphological identification, cataloguing, and documentation of indigenous and invasive alien freshwater fishes of Ramsar sites in Tamil Nadu; DNA barcoding and phylogenetic assessment.

Progress: Surveys covered six Ramsar sites. Collected fishes and other faunal samples, some processed for DNA isolation, PCR, and sequencing. Thirteen COI sequences from 8 species were submitted.

GANGETIC PLAINS REGIONAL CENTRE (GPRC), PATNA, BIHAR



The Gangetic Plains Regional Centre was set up at Patna in March 1965 under Third Five Year Plan to survey, ascertain and augment knowledge on the faunal resources of the Gangetic Plains area under its jurisdiction: The jurisdiction of the Centre is spread over two states. Bihar has 38 Districts with one National Park, eleven Wildlife Sanctuaries and one Tiger Reserve and Jharkhand has 24 Districts with one National Park, ten Wildlife Sanctuaries and one Tiger Reserve. During the last 60 years of its existence, this centre has shown all-around development such as research, field surveys, and development of the National Zoological Collections, Museum, Green Skill Development Program and construction of its own office building. The centre has completed more than 41 projects under Fauna of States, Fauna of Ecosystem, Status Survey, Ecological studies and revisionary studies. The total holding includes 1,72,922 specimens, comprising 76,162 named specimens and 96,760 unnamed specimens. Apart from these 8 Type specimens are housed in the centre.

Fauna of Bihar State (Invertebrates) – Part II

01

Investigators: Dr. Gopal Sharma (Retd.), Dr. M. E. Hassan and Scientists of ZSI HQ

Period: April 2021 to March 2024

Status: Completed

Objective: To collect and document invertebrate fauna of Bihar state.

Outcome: A total of 2,659 specimens were collected across various groups: Hemiptera (1130), Coleoptera (258), Hymenoptera (197), Diptera (79), Orthoptera (555), Lepidoptera (106), Arachnida (239), Odonata (51), Mollusca (608), zooplankton (16 vials), and others (46). Significant identifications include: Mollusca – 1,708 specimens (22 genera, 41 species); fishes – 924 specimens (58 genera, 76 species); insects – 535 specimens (66 genera, 83 species); rotifers – 155 specimens (24 species); nematodes – 154 specimens (31 species); Platyhelminthes – 260 specimens (51 species); and Annelida – 487 specimens (14 species). Notably, 8 species of earthworms were newly recorded for Bihar.



Indian robin *Copsychus fulicatus* (Linnaeus, 1766)

Faunal Diversity of Kaimur Wildlife Sanctuary, Bihar

02

Investigators: Dr. M. E. Hassan and scientific staff

Period: April 2023 to March 2026

Status: Ongoing

Objective: To study the faunal diversity of Kaimur Wildlife Sanctuary, Bihar.

Progress: One major faunal survey was conducted, yielding 2,092 specimens and 10 moss samples. Identified taxa include Mollusca (58 specimens, 3 species), Lepidoptera (53 specimens, 16 species), Orthoptera (83 specimens, 11 species), Diptera (9 specimens, 5 species), Hymenoptera (3 specimens, 3 species), along with observational records of 70 bird species and 6 mammal species.



Painted Spurfowl *Galloperdix lunulata*
(Valenciennes, 1825)

Fauna of Baraila Lake and Bhimbandh Sanctuary, Bihar

03

Investigators: The Officer-in-Charge and Dr. M. E. Hassan

Period: April 2024 to March 2027

Status: Initiated

Objective: To collect and document fauna of Baraila Lake and Bhimbandh Sanctuary, Bihar.

Progress: Two major and four local faunal surveys were conducted. A total of 6,750 specimens from multiple groups and 12 moss samples were collected. Key identifications include: Testate amoebae (22 specimens, 6 genera, 17 species); Hemiptera (104 specimens, 47 genera, 54 species);

Odonata (6 specimens, 2 species); Lepidoptera (14 specimens, 6 genera, 7 species); Orthoptera (56 specimens, 12 genera, 14 species); Mollusca (1,302 specimens, 6 genera, 16 species); fishes (413

specimens, 21 genera, 26 species); and observational records of 110 bird species and 10 mammal species.



Habitat of Baraila

Faunal Diversity of Kanwar Lake Bird Sanctuary and Nagi-Nakti Dam Bird Sanctuary, Bihar

04

Investigators: Dr. M. E. Hassan and all scientific staff of the centre

Period: April 2024 to March 2027

Status: Initiated

Objective: To study the faunal diversity of Kanwar Lake Bird Sanctuary and Nagi-Nakti Dam Bird Sanctuary, Bihar.

Progress: One major faunal survey was conducted at Nagi-Nakti Dam Bird Sanctuary, resulting in the collection of 3,944 specimens and 3 moss samples. Identified taxa include: Testate amoebae (20 specimens, 6 genera, 16 species), Mollusca (43 specimens, 3 species), and birds (67 species from 16 orders and 41 families).



Purple Heron *Ardea purpurea* Linnaeus, 1766

HIGH ALTITUDE REGIONAL CENTRE (HARC), SOLAN, HIMACHAL PRADESH



The High Altitude Regional Centre was established in September 1968 under the fourth Five Year plan of the Government of India to explore the faunal diversity of North Western Himalaya. The jurisdiction of the Centre spreads over 1,57,060 sq. km. comprising of mountainous states of Himachal Pradesh, Union Territories of Jammu & Kashmir and Ladakh in the North West Himalayan Ecosystems. Owing to the vast altitudinal variations from 350 m to 6,500m ASL (Above Sea Level), it covers all four physiographical zones of the Himalayas i.e. Shiwaliks, Lesser, Greater, and Trans Himalaya. This area includes 09 National Parks, 41 Wildlife Sanctuaries, 37 Conservation Reserves, one Biosphere Reserve and 07 Ramsar sites. Three important high altitude ranges are also covered under its jurisdiction area. The northernmost range is Karakoram Range, to the south of the Karakoram range runs the Zaskar range and parallel to the Zaskar range towards its southern side lies the Pir Panjal range. The fauna present in these ranges is highly endemic and endangered. The National Zoological Collections of the Centre include 54,861 identified specimens and 1,19,277 unidentified specimens. The Centre is well equipped with the facilities like modern analytical instruments for carrying out research in taxonomic studies and the Molecular Systematic laboratory for molecular studies. HARC has been recognized as a research institute for the Ph.D. programme by the University of Jammu, Jammu (UT), Himachal Pradesh University, Shimla, and Maharaja Agrasen University, Baddi, Solan (HP). The Centre has produced valuable results published in the form of "Fauna of Himachal Pradesh", Fauna of Trans-Himalaya, Occasional papers, Ecosystem studies, Conservation areas etc. Scientists at the Centre have described 50 species as new to science. Zoological Survey of India, Solan has the Designated National Repository of faunal samples under section 39 of the Biological Diversity Act, 2002, named "National Himalayan Faunal Repository" and hence acts as a designated repository for the safe deposit of holotypes/isotypes/ paratypes of new taxa of Zoological Specimens. The repository and museum facilitate scientists, research scholars, forest departments, universities and other research institutes working on the fauna of the Indian Himalaya. The museum at HARC acts as a source of education and awareness to conserve biodiversity for the public and students.

Faunal diversity of Lahaul Valley, District Lahaul & Spiti (Himachal Pradesh)

01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objectives:

- i. To survey, explore and monitor the faunal diversity of Lahaul Valley, District Lahaul & Spiti,

Himachal Pradesh. Taxonomic studies of collected fauna; ecological/behavioural studies.

- ii. To observe and record avian and mammalian species; to document new species and new records, if any; and overall documentation of the fauna of Lahaul Valley.

Outcome: One extensive survey was conducted, covering ten localities including Udaipur, Sissu, Keylong, Koksar, Tandi and Baralacha. A total of 3,608 specimens were collected belonging to 16 faunal groups.



Royle's Pika *Ochotona roylei* (Ogilby, 1839)

Faunal diversity in Agroecosystems of Low hills in subtropical and Mid-hills in sub-humid zones of Himachal Pradesh: Phase-I

02

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objectives:

- i. To survey, explore and monitor faunal diversity in agroecosystems of low hills (subtropical) and mid-hills (sub-humid) zones of Himachal Pradesh.

- ii. Taxonomic studies of collected fauna; ecological/behavioural studies; to observe and record avian and mammalian species; to document new species and new records, if any; and overall documentation of the fauna of these agroecosystems.

Outcome: Two extensive surveys were conducted in Mandi, Hamirpur, Kangra and Chamba districts, yielding 5,888 and 4,224 specimens respectively from 17 faunal groups. In total, 156 localities (90 in low hills and 66 in mid hills) across eight districts were. Registration of unidentified collections has been completed and identification is in progress.

MARINE BIOLOGY REGIONAL CENTRE (MARC), CHENNAI, TAMIL NADU



The Marine Biology Regional Centre, established on March 1, 1973, in Chennai, has the mandate to study the marine faunal diversity in India. The jurisdiction of this centre covers the entire 2.02 million sq km EEZ of India's marine areas - from habitats such as fringing, barrier and atolls to seagrasses, mangroves, estuaries, dunes, salt marshes and the oceanic, submerged reefs, and seamounts. The centre has completed 125 research programmes up to March 2025. The Programmes completed this year were 1) Diversity and Distribution of Marine Sponges in the Gulf of Kachch, 2) Integrative taxonomy, distribution and current status of Batoids of India, and 3) Molecular taxonomy, distribution, and species diversity of fishes of the order Gobiiformes from Indian waters. There are 06 ongoing programmes: 1) The long-term coral reef monitoring programme in Lakshadweep atolls is a study being carried out since 2015, and the first long-term coral reef monitoring programme in the country. 2) The coral restoration programme the centre is running in the Gulf of Kachchh Marine National Park has established two bio-rock structures and is involved in their monitoring and maintenance. 3) In the project taken up to rehabilitate corals from the pipeline route in Narrara, the Gulf of Kachchh, about 15000 coral colonies were successfully translocated to natural substrates in suitable recipient sites. 4) Under the Deep Ocean Mission of Government of India, the centre was granted the study "Deep-Sea Chondrichthyans of India: Taxonomy, distribution, biology and status". 5) As one of the Annual Programmes of Research of Zoological Survey of India, the centre is exploring the lesser-known marine fauna of Lakshadweep, and in another, the centre is 6) assessing the health status of Gulf of Mannar Marine National Park. Under these programmes, the centre organised 8 long-term surveys and 25 local surveys. The faunal examples collected totalled 3979 for the current year. Under 11 taxa (bryozoans, sponges, nematodes, foraminiferans, platyhelminthes, echinoderms, crustaceans, molluscs, fish, and reptiles), the centre has registered 680 species from 2464 examples. The centre reported five new species and 11 new distribution records in the current year. The centre has a full-fledged SCUBA facility to support field activities, two stereo zoom microscopes (one motorised), and a phase-contrast microscope. A DNA laboratory is also established to support molecular taxonomy studies. As a recognised centre for PhD studies with the University of Madras, 15 students have received their doctoral degrees to date. Eleven students are currently pursuing theirs, including a candidate who submitted her thesis this academic year. The centre has 1,48,02 specimens in its National Zoological Collection holdings, of which 1,25,145 are named, and 22,884 are unnamed, comprising 25 holotypes and 08 paratypes.

Status and Population Dynamics of Andaman Teal *Anas albogularis* in Andaman Islands

01

Investigator: Dr. C. Venkatraman

Period: April 2021 to March 2024

Status: Completed

Objectives:

- To identify the status and distribution of Andaman Teal on the Andaman Islands. To estimate the population structure (size, age, and sex) of Andaman Teal at habitat and island level.
- To identify the factors governing the population structure of Andaman Teal.

Outcome : Field surveys were conducted in ten wetlands across South and North Andaman to assess the current population status of the Andaman Teal. In the Sippighat wetlands, physico-chemical and biological parameters of water and mud samples were analysed using standard methods. A total of 38 sites have been reported as habitats of the Andaman Teal from 1890 to date. A strong positive correlation was observed between Andaman Teal abundance and atmospheric temperature, water nitrate, phosphate, mud nitrogen, and zooplankton density. In contrast, other parameters showed negative correlation.

Significant findings: Human activities such as hunting, fishing, and cattle grazing were found to have a high impact on the Andaman Teal and other waterbird populations. These threats require urgent monitoring and management to conserve the species and its wetland habitats.

A Status Survey of Nilgiri Marten *Martes gwatkinsii* Horsfield, 1851 in the Western Ghats of Tamil Nadu

02

Investigators: Dr. C. Venkatraman and Dr. Lalit Kumar Sharma

Period: April 2021 to March 2024

Status: Completed

Objectives:

- To identify the distribution and population status of Nilgiri Marten in various habitat types.
- To identify the ecological requirements of Nilgiri Marten.
- To identify the immediate threats to Nilgiri Marten. And to generate the habitat suitability model to predict the potential habitats where Nilgiri Marten is likely to be found.

Outcome: Based on literature, 48 presence locations of Nilgiri Marten were compiled. Two field surveys in the Nilgiris, Anamalai Tiger Reserve (ATR), and Kalakkad Mundanthurai Wildlife Sanctuary (KWLS) included 26 trails spanning 194 km. Eleven individuals were directly observed (7 in Nilgiris, 1 in ATR, and 3 in KWLS). A total of 153 non-invasive samples were collected. Socio-economic data were gathered from 121 respondents across 30 villages. Based on field and community inputs, 16 potential habitats were identified. Habitat suitability modelling indicated 18,668 km² of suitable habitat in the Western Ghats.

Significant findings: Widespread lack of awareness among local communities about the Nilgiri Marten and its ecological role was observed. The study provides a foundation for targeted conservation and management strategies for this elusive carnivore.

Diversity and Distribution of Marine Sponges in Gulf of Kachchh 03

Investigator: Dr. G. Sivaleela

Period: April 2022 to March 2025

Status: Completed

Objectives:

- Morphological studies on the sponges of the Gulf of Kachchh.
- Estimation of the diversity, density, and distribution of sponges along with associated faunal communities in the study areas of the reef ecosystem.

Progress: A total of 1,319 sponge specimens were collected and identified, representing 107 species across 12 orders and 33 families, all belonging to the class Demospongiae. The study documented families such as Ancorinidae, Bubaridae, Chalinidae, and Suberitidae. Physico-chemical parameters of water were measured, with data recorded for Narara reef. Due to Marine National Park restrictions, associated faunal sampling was limited to visual documentation. Mullet (*Mugil cephalus*), *Terapon jarbua*, and crinoids were consistently observed with sponges.

First-time records for the Gulf of Kachchh include *Stelletta clavata*, *Oceanapia fistulosa*, *Hymedesmia stylophora*, *Callyspongia violacea*, and *Haliclona debilis*. Numerous boring sponge species were also identified, contributing to knowledge of reef bioerosion and benthic diversity.

Integrative Taxonomy, Distribution and Current Status of Batoids of India 04

Investigator: Dr. K. K. Binneeh

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To understand the current status of batoids in Indian waters.
- To study the taxonomic diversity and phylogeny of Indian batoids using morphology and genetic tools like DNA barcoding.
- To compare and study the current distribution pattern based on historical baseline data and exploratory surveys.
- To conduct the biology of selected species of critically endangered Guitardfishes.
- To improve the understanding of utilization and trade route of Indian species of batoids.
- To document the socio-economic and cultural aspects associated with batoid fisheries.

Outcome: Fourteen field surveys across nine coastal states (Gujarat to West Bengal) covered 66 locations. A total of 358 specimens were collected, with 164 registered in the National Zoological Collection. The study recorded 73 species across 16 families and 28 genera, including six new species and one new genus. Biological data were gathered for eight species. Four Important Shark Ray Areas (ISRA) were proposed to the IUCN. DNA barcodes for 42 species (72 sequences) were submitted to NCBI.

Three new species (*Pateobatis bengalensis*, *Dipturus dhritiae*, *Teteronarce arabiansis*) and one new genus (*Teteronarce*) were described. New records include *Maculabatis randalli*, *Glaucostegus younholeei*, and *Rhinobatos punctifer*. An updated batoid checklist and eight research papers (including rediscoveries and clarifications of misidentified taxa) were published.



Aetobatus ocellatus (Kuhl, 1823)

Lesser Known Marine Fauna of Lakshadweep Archipelago 05

Investigator: Dr. Rajkumar Rajan

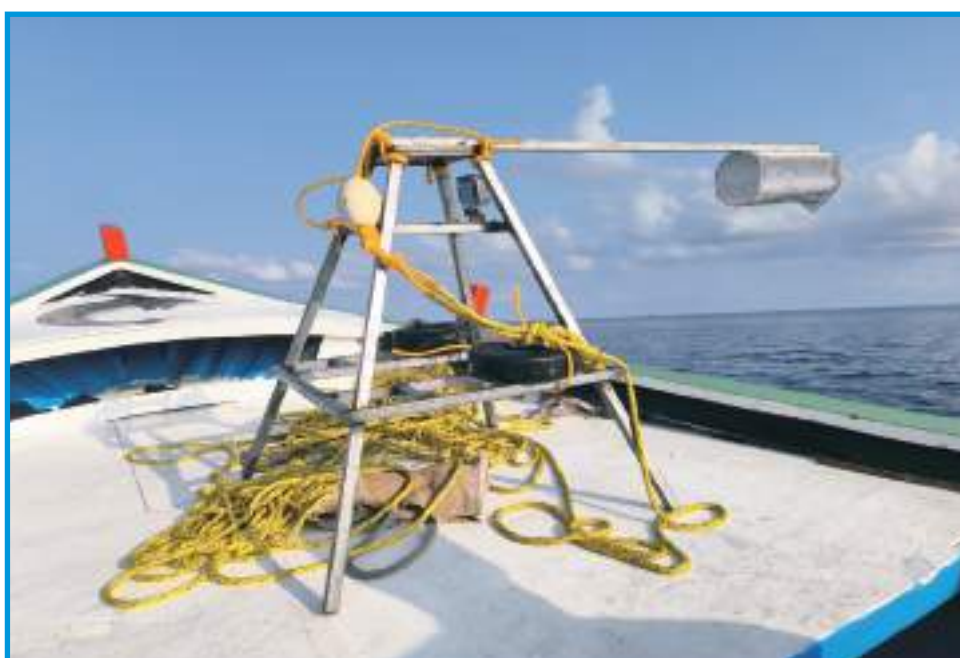
Period: April 2023 to March 2026

Status: Ongoing

Objectives: To inventory the lesser known marine faunal groups in Lakshadweep archipelago.

Progress: A field survey was conducted across selected atolls in the Lakshadweep archipelago. The

survey yielded 447 polychaete specimens representing 22 species, 5 fish species from 8 specimens, 69 species of marine nematodes, and 87 species of gastropods. Taxonomic analysis of samples is ongoing. First records from Lakshadweep waters include the nematode species *Pselionema annulatum*, *Epacanthion gorgonocephalum*, and *Tricoma longirostris*, highlighting the unexplored diversity of meiofauna in these coral ecosystems.



BRUVs operation at Kavaratti Islands

ANDAMAN AND NICOBAR REGIONAL CENTRE (ANRC), SRI VIJAYA PURAM, ANDAMAN & NICOBAR ISLANDS



The Andaman and Nicobar Regional Centre of Zoological Survey of India were established at Sri Vijaya Pauram on 21st April 1977 with the jurisdiction covering Andaman and Nicobar Islands and its coastal and off-shore waters. 84 research programmes have been completed on several faunal groups of this archipelago. The major areas of study at this Centre are on Taxonomy, Ecology and Zoogeography of protozoan to Mammalia from marine and terrestrial ecosystems. Scientists of the ZSI, Sri Vijaya Puram published 85 books, and over 900 research papers in various peer-reviewed national and international journals, 70 pamphlets, 50 general articles and 120 posters. At present, there are 05 ongoing projects including 03 in-house projects and 02 grant-in-aid projects. Coral reefs and their associated faunal communities are given special attention. Holdings of the Centre comprise 2,15,831 specimens with 75,119 named and 1,40,712 unnamed specimens. More than 3250 visitors from the mainland as well as foreigners witnessed the regional museum of the Centre during the reporting period, out of which more than 1750 students from various colleges, and schools of this island.

Breeding Ecology of Leatherback Turtle (*Dermochelys coriacea*) in Andaman & Nicobar Islands

01

Investigators : Dr. C. Sivaperuman and Dr. Basudev Tripathy

Period: April 2021 to March 2024

Status: Completed

Objective: To assess the present status, distribution, and species richness of terrestrial fauna in Great Nicobar Biosphere Reserve; study changes in species composition post-2004 tsunami; recommend conservation measures for endemic, endangered and threatened species; and identify faunal data gaps.

Outcome: The study was carried out with a focus on the ecological monitoring and breeding behavior of Leatherback turtles. Field data was gathered on nesting, hatching success, and threats at nesting beaches in Great Nicobar. Population trends were analyzed in the context of historical data. A manuscript detailing the findings has been submitted.



Leatherback Sea Turtle Breeding Nursery

Diversity, Distribution and Status of Freshwater Fish Fauna of Andaman and Nicobar Islands

02

Investigators: Dr. Mrinal K. Das and Dr. C. Sivaperuman

Period: April 2022 to March 2025

Status: Completed

Objective: To collect freshwater fish from diverse

habitats and altitudes; identify species using morphometric and meristic analysis; and prepare annotated lists by habitat and salinity types.

Progress: Five long-term surveys yielded 2,552 specimens. A total of 46 species from 2,482 specimens were identified and registered. One species was recorded for the first time from India, and nine as new records for Andaman and Nicobar Islands.



Megalo pscyprinoides Broussonet 1782

Documentation of Faunal Diversity of Island Wildlife Sanctuaries in North Andaman

03

Investigator: Dr. C. Sivaperuman

Period: April 2021 to March 2025

Status: Completed

Objective: To assess the status, richness, and distribution of fauna in multiple wildlife sanctuaries; prepare distribution maps using ecological and GIS tools; and provide management recommendations.

Outcome: Extensive field surveys were conducted in Shearme, West, White Cliff, Point, Reef, and Mayo Island Wildlife Sanctuaries. Faunal inventories were compiled across multiple taxa.



Little Green Heron Butorides striatus spodiogaster Sharpe 1894

Survey of Mangrove Associate Fauna of Andaman and Nicobar Islands

04

Investigator: Dr. C. Sivaperuman

Period: April 2023 to March 2026

Status: Ongoing

Objective: To document the faunal diversity in mangrove ecosystems; assess habitat associations; and prepare distribution maps of mangrove-associated fauna.

Progress: Surveys across major mangrove habitats recorded 281 species spanning Molluscs (47), Crustacea (12), Spiders (25), Birds (54), Butterflies (58), Moths (32), Hemiptera (9), Odonata (11), Reptiles (7), Amphibians (7), Hymenoptera (3), Coleoptera (6), Mammals (2), and Echinodermata (8). Identification and mapping are underway.



Mangrove Whistler *Pachycephala cinerea* Blyth 1847

Studies on Sea Birds of Andaman and Nicobar Islands

05

Investigator: Dr. C. Sivaperuman

Period: April 2024 to March 2027

Status: Initiated

Objective: To estimate the distribution, species composition, and abundance of seabirds in the

Andaman Sea; provide baseline data for future seabird monitoring and identify knowledge gaps.

Progress: Surveys recorded a total of 61 species, comprising 60 bird species and 1 mammal. A total of 918 specimens were collected from various coastal and offshore habitats. Species identification and ecological assessments are ongoing.



Lesser Crested Tern *Thalasseus bengalensis* Lesson 1831

11

SUNDERBAN REGIONAL CENTRE (SbRC), CANNING, WEST BENGAL



The Sunderban Regional Centre (SbRC) is the first regional Centre located inside the Biosphere Reserve, which was established at Kakdwip, West Bengal under the Fifth Five Year Plan of the Government of India in June 1979. After this, the centre was shifted to Canning, West Bengal in 1984 for better focus on Sunderban Biosphere Reserve. SbRC completed 46 years from 1979 to 2025 and conducted various research programmes. The primary objective of this centre is to explore the faunal wealth of Sunderban as it is closely entangled with waterways like rivers, creeks, estuaries and marine. The jurisdiction of the centre includes two districts of West Bengal viz., North 24 Parganas and South 24 Parganas. It includes important protected 1 Biosphere Reserve (Sunderban Biosphere Reserve), 1 National Park (Sunderban National Park), 1 Tiger Reserve (Sunderban Tiger Reserve), 5 Wildlife Sanctuaries (Haliday Island WLS, Lothian Island WLS, Sajnekhali WLS, ChintamaniKar Bird Sanctuary and Bibhutibhushan WLS). The holding of the center comprises 55341 specimens which include 41411 identified specimens and 13930 unidentified specimens in the National Zoological Collection. The Museum displayed nearly 736 specimens of 604 species to educate and create awareness to the local public and students. The library of this centre holds more than 2665 books and journals.

Status of Threatened Herpetofauna of Sunderban Biosphere Reserve

01

Investigators: Dr. P. P. Mohapatra, Dr. Kaushik, Dr. J. and S. Yogesh Kumar

Period: April 2021 to March 2025

Status: Completed

Objective: Status assessment of Threatened Herpetofauna from Sunderban Biosphere Reserve

Outcome: Thirteen species of threatened herpetofauna were listed from the Sunderbans. These include the River Terrapin (*Batagur baska*), King Cobra (*Ophiophagus hannah*), Indian Flap-shell Turtle (*Lissemys punctata*), Spotted Pond Turtle (*Geoclemys hamiltonii*), Indian Roofed Turtle (*Pangshura tecta*), Olive Ridley Sea Turtle (*Lepidochelys olivacea*), and Hawksbill Sea Turtle (*Eretmochelys imbricata*).



Habitat of Sunderban Biosphere Reserve

Mangrove Associated Fauna of Sunderban Biosphere Reserve, India

02

Investigator: Dr. J. S. Yogesh Kumar

Co-Investigators: Dr. Valarmathi, Dr. Santosh Kumar, Dr. J. Chitra, Dr. T. Kubendran, Dr. Prabhakar Rai, Mrs. Anindita Ghosh, Dr. Suranjana Banerjee, Mr. Santanu Mitra

Period: April 2024 to March 2027

Status: Initiated

Objective: To study the mangrove-associated fauna (Protozoan, Ephemeroptera, Odonata, Meiofauna, Parasitic Worms, Crustaceans, Mollusca,

and Fish) from Sunderban Biosphere Reserve, India, and correlate the community structure with physicochemical parameters.

Progress: A total of 3,747 specimens, 40 water samples, and 25 soil samples were collected. An additional 57 specimens were gathered during local surveys. Of these, 1,160 specimens were deposited at SbRC-Canning, 1,103 in the Crustacean Division, 21 soil and 21 plankton samples in the Soil Zoological Section, 611 specimens in the MIO Section, 107 fish and 138 parasite specimens in the Platyhelminthes Section, 124 in General Non-Chordata, 627 in Hymenoptera, and 19 water and 11 soil samples in Protozoa Section.

Out of 1,160 specimens deposited at SbRC-Canning, 739 were identified, including one echinoderm and one fish with potential new distribution records for the West Bengal coast. Additionally, 206 specimens (169 Odonata and 37 Ephemeroptera) were identified from the 611 MIO samples.



Mangrove landscape of
Sunderban Biosphere Reserve

12

FRESHWATER BIOLOGY REGIONAL CENTRE (FBRC), HYDERABAD, TELANGANA



The Freshwater Biology Regional Centre was established under the 5th Five-Year Plan of Govt. of India on 24th February 1979 at Hyderabad, Telangana State in contemplation to study the limnological aspects of the freshwater bodies throughout India focusing on exploration and documentation of physicochemical, and ecological profiles and faunal diversity of all the freshwater ecosystems including wetlands of National and International importance including Ramsar sites of India. Apart from freshwater faunal studies, faunistic studies on Protected Areas of Andhra Pradesh and Telangana are also being carried out. At present, there are four internal ongoing Annual Research Programmes at the Centre. The NZC holdings of the centre comprises 1,35,081 including 90,576 identified and 44,505 unidentified specimens. 10,744 specimens belonging to 367 species were identified during the current year and advisory services of faunal groups particularly fishes, Mollusca, aquatic insects and plankton rendered for research institutes, colleges, Universities and professional Laboratories across the nation by our scientists. The Centre is well equipped with facilities like modern analytical instruments for carrying out research in limnological, hydrobiological, faunistic studies and animal DNA Barcoding. The Centre contributed a total of 1143 barcode sequences to NCBI and BOLD and published 27 books and more than 285 research papers in various reputed journals. The Centre is recognized by the Osmania University, Hyderabad for pursuing PhD in Zoology at FBRC. The centre maintains a National Museum of Zoological Collections depicting the rich and diverse faunal wealth with all representative faunal groups to educate students and researchers. The centre also extends identification and advisory services by delivering lectures, participating in public exhibitions, conducting awareness programmes etc., for the public, research scholars, students, naturalists, Government and non-governmental Organizations.

Faunal Diversity of Kinnerasani and Pakhal Wildlife Sanctuary, Telangana

01

Investigator: Dr. S. S. Jadhav

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To explore and document the faunal diversity of Amrabad and Kawal Tiger Reserves.
- To assess faunal diversity of various groups, evaluate threats, suggest protection measures and support tiger reserve management through eco-development and conservation planning.

Progress: A total of 6,871 specimens were collected during two surveys. The first survey yielded 1,740 specimens from Kinnerasani and 2,281 from Pakhal. The second survey collected 1,245 specimens from Kinnerasani and 1,605 from Pakhal. Detailed breakdowns include arthropods, mollusks, crustaceans, fish, reptiles, amphibians, annelids, and arachnids.

Crocodylus palustris was observed in Pakhal Lake. *Copelatus bacchusi* was recorded after 50 years from the Deccan Peninsular region. *Hemidactylus sushilduttai* and *Hydrophylax bahuvistara* were recorded for the first time from Telangana. The endemic *Hemidactylus kangerensis* was collected from Pakhal. Two new species, *Hemidactylus pakhalensis* sp. nov. and *Hemidactylus telanganaensis* sp. nov., were described and submitted for publication.



Boiga trigonata (Schneider, 1802)

Faunal Diversity of River Godavari

02

Investigator: Dr. M. Karuthapandi

Period: April 2022 to March 2025

Status: Completed

Objective: To document the freshwater faunal diversity of River Godavari, assess species composition, distribution, RET and endemic species, evaluate ecosystem health through physicochemical parameters, and inform future conservation strategies.

Progress: A total of 2,860 specimens were collected in two field surveys. The first collected 1,802 examples, and the second yielded 1,058. Samples spanned from protozoa to mammals.

Approximately 705 species were documented, with 356 invertebrates and 349 vertebrates. The highest species count was recorded in birds (175), followed by fish (152). The river supports 48 endemic species and 17 threatened freshwater faunal species especially among fish, reptiles, and birds. Notably, fish included 44 endemic and 11 threatened species. Invasive species constituted 1% of the total fauna.



Indian Skimmer *Rynchops albicollis* Swainson, 1838

Studies on Wetland Fauna of Three Ramsar Sites of Madhya Pradesh (Sirpur Lake, Yeshwant Sagar, and Sakhya Sagar) 03

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2023 to March 2026

Status: Ongoing

Objective: To document the freshwater faunal diversity of three Ramsar wetlands in Madhya Pradesh, evaluate species distribution, endemism, and assess physicochemical parameters and trophic status of the water bodies.

Progress: Two surveys were conducted. Collection details include fish (219), mollusks (350), aquatic coleoptera (253), aquatic hemiptera (18), odonata (18), prawn (15), and annelids (4).

A high number of *Crocodylus palustris* individuals were recorded in Sakhya Sagar. Most wetlands showed dense macrophyte cover, limiting sunlight penetration. Vulnerable avian species observed included *Antigone antigone* (Sarus Crane), Egyptian Vulture, and Black-billed Tern.



Yashwantsagar Lake

Faunal Diversity of Seshachalam Biosphere Reserve, Andhra Pradesh 04

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2024 to March 2027

Status: Initiated

Objective: To document the faunal diversity of Seshachalam Biosphere Reserve, assess threats and conservation needs, and support biodiversity conservation through informed eco-development strategies.

Progress: A total of 4,795 specimens were collected in two surveys. The first collected 2,764 specimens and 11 wet lots. The second collected 2,031 specimens and two wet lots. Taxa included crustaceans, mollusks, arachnids, annelids, insects, fish, amphibians, reptiles, and myriapods.

A new species *Riopa deccanensis* sp. nov. was described from the reserve and submitted to *Zootaxa*. *Pseudophilautus regius*, previously known only from Sri Lanka, was recorded for the first time from India and also published in *Zootaxa*.



Talakona waterfall

WESTERN GHAT REGIONAL CENTRE (WGRC), KOZHIKODE, KERALA



The Western Ghat Regional Centre at Kozhikode, Kerala, was established in April 1980, under the Sixth Five-Year Plan of the Government of India. The jurisdictional limit of the Centre encompasses the entire biogeographical zone of the Western Ghats, an extremely important life-supporting system of Peninsular India. The Centre is engaged in the documentation of the rich and diverse faunal components/ resources of the Western Ghats and Kerala, by conducting field explorations and scientific studies. Few recent programmes include Fauna of Mookambika Wildlife Sanctuary, Parambikulam Tiger Reserve, Palakkad, Fauna of Wayanad Wildlife Sanctuary, Exploration of Natural Enemies (predators and parasitoids) of tea gardens of India with special emphasis on South and Northeast India, and Fauna of Periyar Tiger Reserve. The centre has signed an MoU with Calicut University and Mampad College, Malappuram, Kerala. The National Zoological Collections (NZC) maintained in the Centre contain 63,887 named and 90,422 unnamed specimens. During 2024-2025, 49 type specimens were deposited in the National Zoological Collections. The Centre is a recognized Research Centre for conducting research programs leading to PhD degrees at the University of Calicut, Kerala. The Centre maintains a Natural History Museum depicting the rich and diverse faunal wealth of the Western Ghats and Kerala, displaying 625 specimens under 604 genera of various faunal group. The Centre also extends identification and advisory services by delivering lectures, participating in public exhibitions, Identification of confiscated wildlife materials, conducting awareness programmes etc. to the general public, research scholars, students, naturalists, Government, and non-Governmental Organizations.

Exploration of Natural Enemies (predators and parasitoids) of Tea Gardens of India with Special Emphasis on South and Northeast India

01

Investigators: Dr. P. Girish Kumar and Dr. V. D. Hegde (ZSI/ WGRC), Dr. Souvik Sen & Dr. Sheela S (ZSI Hqs)

Period: April 2022 to March 2025

Status: Completed

Objectives:

- To explore the diversity of the natural enemies in tea gardens of India, with special emphasis on South and Northeast India.
- To identify dominant predators among recorded natural enemies and prepare a consolidated faunal document.
- To describe new taxa (if encountered) from the surveys conducted.

Outcome: Two faunistic surveys conducted in the tea gardens of Tamil Nadu and Assam. Two species of predatory wasps, *Carinostigmus costatus* and *C. aterrimus* (Hymenoptera: Carbronidae : Pemphredoninae), are reported for the first time from tea plantations of South India. *C. aterrimus* is newly recorded from Kerala. *Polemistus fukuitor* is reported for the first time as a natural predator of tea aphids from the southern Western Ghats. Further, recognized 71 species of spiders as potential biocontrol agent of tea pest. Described two new species of spider from the tea gardens of NE India.



Tea plantation of Southern India

Fauna of Parambikulam Tiger Reserve, Kerala

02

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- Exploration and cataloguing of the faunal diversity of the Parambikulam Tiger Reserve along with the observation of seasonal variation in the occurrence of various species.
- Taxonomic studies on various faunal groups and description of new taxa (if encountered) from the reserve.

Progress: The genus *Piyumoides* is reported for the first time from the Indian subcontinent with the new species *Piyumoides indicus* (Hymenoptera: Crabronidae). *Acromantis lobofoemrata* (Mantodea: Hymenopodidae), a new species of mantid, and *Parastephanellus binoyi* (Hymenoptera: Stephanidae), a new species of crown wasp, were described from the reserve.



Leopard *Panthera pardus* (Linnaeus, 1758)

Fauna of Wayanad Wildlife Sanctuary, Kerala

03

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2023 to March 2026

Status: Ongoing

Objectives:

- i. Exploration and cataloguing of the faunal diversity of the Wayanad Wildlife Sanctuary along with the observation of seasonal variation in the occurrence of various species.
- ii. Taxonomic studies on various faunal groups and description of new taxa (if encountered) from the sanctuary.

Progress: Three surveys have been conducted one during FY 2023–2024 and two during FY 2024–2025 resulting in the collection of 4,277 specimens. Identification of collected specimens is ongoing; results will be published upon completion of analysis.



Habitat of Wayanad Wildlife Sanctuary

Fauna of Periyar Tiger Reserve, Kerala

04

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- i. Exploration and cataloguing of the faunal diversity of the Periyar Tiger Reserve along with the observation of seasonal variation in the occurrence of various species.
- ii. Taxonomic studies on various faunal groups and description of new taxa (if encountered) from the sanctuary.

Progress: One major survey for the year 2024–2025 is scheduled and proposed to be conducted.



A herd of Gaur *Bos gaurus* C.H. Smith, 1827 at Periyar TR

ESTUARINE BIOLOGY REGIONAL CENTRE (EBRC), GOPALPUR-ON-SEA



The Estuarine Biology Regional Centre, Gopalpur-on-sea, Ganjam, Odisha was established in 1980 during the 6th Five-year plan of Govt. of India. The Primary objective of this Centre is to conduct investigations on the faunal diversity of estuaries, backwaters, lagoons and mangrove ecosystems along the east and west coast of India. Geographical coverage includes estuaries and mangrove ecosystems of India, which are extended throughout the country along both east and west coasts and the jurisdiction of the Estuarine Biology Centre is “All India” covering all estuaries and associated mangrove ecosystems of the country. The Centre is equipped with a DNA laboratory. The museum of this Centre holds a display of 400 species for general visitors and public. Total holdings of the Centre include 112719 specimens, of which 74463 are named and 38256 are unnamed specimens including 23 holotype & 115 paratype specimens.

Current Status of Faunal Diversity of Bahuda, Devi, Nuanai Estuarine, Backwaters and Mangrove Ecosystems of Odisha

01

Investigators: The Officer-in-Charge and all scientific staff of the Centre

Period: April 2022 to March 2025

Status: Completed

Objectives:

- Inventorization of the complete faunal diversity of the Bahuda, Devi & Nuanai estuarine, backwater and mangrove ecosystems.
- Distribution of different organisms in the three different ecosystems will be compared.
- DNA barcoding of complex group of organisms.

Outcome: A total of 14,892 specimens were collected, and 8,918 identified, representing 548 species including birds and mammals. DNA barcoding was completed for 91 species. Field work yielded several taxonomic novelties and new records. Three new species described; two species reported for the first time from India; eight species documented as new state records. Four SCI papers published.



Camera trap installation in Devi mangroves

Taxonomic Review of the Suborder Pleuronectoidei along the East Coast of India

02

Investigators: Dr. Anil Mohapatra and Dr. K. K. Bineesh

Period: April 2022 to March 2025

Status: Ongoing

Objectives:

- To access the species diversity of the families under suborder *Pleuronectoidei* along East Coast of India.
- Solving of complex group using molecular analysis.
- DNA barcoding of novel species and the species complex if encountered.

Progress: A total of 2,688 specimens were collected; 53 species identified; DNA barcoding carried out for 18 species. Five species are suspected to be new; two of these have been communicated while the rest are under study. Revalidation of two species is also in progress.

Five new species worked out (two communicated); revalidation of two species in progress; 18 state fauna records documented.



Survey along the East Coast of India

Mosquito Fauna of Southern Odisha

03

Investigator: Dr. D. S. Suman

Period: April 2024 to March 2027

Status: Initiated

Objectives:

- i. Assessment of mosquito fauna in southern Odisha districts. Seasonal prevalence of mosquito vectors and impact of environmental factors.
- ii. Genetic diversity using DNA barcoding of mosquito species prevalent in southern Odisha.

Progress: Two major surveys in Koraput and Malkangiri districts and two local surveys in Gopalpur were conducted. A total of 1,136 specimens were collected; 899 identified as 26 species. Five DNA sequences were submitted to GenBank. Three species were augmented to the ZSI collection during the current year.

Assessment of Coral and Coral-Associated Fauna along the Southern Odisha Coast

02

Investigator: Dr. Anil Mohapatra

Period: April 2024 to March 2027

Status: Initiated

Objective: Collecting and documenting the major (fishes, molluscs, crustaceans and others) coral-associated fauna. DNA barcoding of selected fauna.

Progress: One major survey was conducted and

local surveys continued. A total of 2,211 specimens were collected; 1,003 were identified, representing 258 species, including 68 coral reef-associated species. Two species reported for the first time from India, one species reported for the first time from the east coast of India, and 21 new state records documented.



Survey at Aryapalli in connection to project Coral and Coral reef associated fauna of Southern Odisha

ARUNACHAL PRADESH REGIONAL CENTRE (APRC), ITANAGAR, ARUNACHAL PRADESH



The Arunachal Pradesh known as the land of 'dawn-lit mountains' is a thinly populated and mountainous tract on the easternmost part of India. The higher areas, especially the peaks of the Great Himalayas remain snow-capped throughout the year. Owing to great altitudinal variation, from less than 100 m to above 5000 m, five biomes are found in the State. Arunachal Pradesh forms a part of Eastern Himalaya global biodiversity hotspot and is also among the 200 globally important ecoregions. The State displays a high degree of endemism and a comparatively higher incidence of rare and threatened taxa. Such unparalleled distinction can be attributed primarily to the unique geophysical positioning of the State in the transition zone between the Palearctic and Oriental biogeographic regions. Being in the ecotone of the two regions, due to the edge effect, the State possesses biotic elements from both regions as well as has its exclusive components and thus represents Indo-Chinese, Indo-Malayan, Indo-Burmese and Indian biotic components. The State has earned the distinction of being one of the main corridors for the eastern entrant of the Indian sub-region. That is why it is also referred to as an active center of organic evolution. Recognizing the importance of the State in terms of faunal diversity, the Government of India established the Arunachal Pradesh Regional Centre of the Zoological Survey of India on 31st January 1983, at Itanagar under the Seventh Five Year Plan mainly to augment and explore the knowledge of faunal wealth of Arunachal Pradesh. The Area under Jurisdiction is the entire State of Arunachal Pradesh with an area of 83,743 sq. km. having 12 Wildlife Sanctuaries, 01 Orchid Sanctuary, 02 National Parks, 03 Tiger Reserves, 08 Community Reserves, 02 Elephant Reserves and 01 Biosphere Reserve with a cumulative area of approximately 15500 sq. km. Holdings of the Centre include 55,530 specimens of which 27,147 specimens are named and 28,383 are unnamed (as on 30th March, 2025). The center also extends identification and advisory services by delivering lectures, conducting awareness programmes, identifying specimens etc., for the public, research scholars, students, Government and non-governmental organizations. The museum of the Centre holds a total of 400 species of different faunal groups for display to the public.

Faunal Diversity of Anjaw District, Arunachal Pradesh

01

Investigator: Dr. SD Gurumayum**Period:** April 2020 to March 2024**Status:** Completed**Objective:** To document the faunal diversity of Anjaw District.

Outcome: Four extensive surveys were conducted, resulting in the collection of 8,914 faunal specimens. The first survey recorded 74 bird species, the second survey yielded 809 specimens, the third survey 3,059 specimens, and the fourth combined survey 5,042 specimens. From the total collection, 100 species comprising 653 specimens were identified and registered, including: Ciliates – 9 species (24 specimens), Hymenoptera – 1 species (1 specimen), Coleoptera – 1 species (1 specimen), Orthoptera – 32 species (279 specimens), Diplopoda – 2 species (55 specimens), Arachnida – 1 species (5 specimens), Lepidoptera – 45 species (122 specimens), Mollusca – 3 species (11 specimens), Pisces – 3 species (61 specimens), and Amphibia – 3 species (94 specimens). Additionally, 109 specimens of Tardigrades were identified up to the generic level.

*Odontolabis cuvera* Hope, 1842**Faunal Diversity of Kane and Yordi-Reba Supse Wildlife Sanctuaries, Arunachal Pradesh**

02

Investigator: Dr. I. J. Kharkongor**Period:** April 2022 to March 2025**Status:** Ongoing

Objective: To document the faunal diversity of Kane WLS (Lower Siang) and Yordi-Reba Supse WLS (West Siang), Arunachal Pradesh.

Progress: A total of five surveys have been conducted, including two during the current year. From these efforts, 1,944 specimens were collected and 248 species belonging to 12 taxonomic groups were identified. Notable records include Mammals (25 species via camera traps), Birds (24 species), Reptiles (4 species), Amphibians (16 species), Fishes (36 species), Lepidoptera (109 species), Hemiptera (22 species), Orthoptera (37 species), Diplopoda (1 species), Annelida (3 species), Decapoda (2 species), and Mollusca (18 species). Samples have been forwarded to ZSI-HQ and other regional centres for further identification.

The project reveals rich insect and fish diversity in these under-explored sanctuaries, with several potential new or range-expansion records under examination.



A river habitat at Yordi Raba Supse WLS, Upper Subansiri

Faunal Diversity of Upper Siang, Arunachal Pradesh

03

Investigator: Dr. SD Gurumayum

Period: April 2023 to March 2026

Status: Ongoing

Objective: To document the faunal diversity of Upper Siang District, Arunachal Pradesh, NE India.

Progress: Four surveys, including two in the current year, were conducted across various localities. A total of 1,903 specimens were collected, representing 331 species under 10 groups: Mammalia (2 species via camera traps), Aves (42 species, photographic evidence), Reptilia (2 species), Amphibia (13 species), Pisces (21 species), Lepidoptera (202 species), Hemiptera (13 species), Orthoptera (40 species), Annelida (5 species), and Coleoptera (1 species). Selected specimens are under expert examination at ZSI-HQ and other centres. Several Lepidoptera species collected are likely new records for Upper Siang. The study also revealed diverse aquatic fauna from the region's riverine systems.



Siang river at Yingkiong

Entomophagy of Nishyi Tribes in Kurung Kumey District, Arunachal Pradesh

04

Investigator: Dr. Temjenmongla

Period: April 2024 to March 2027

Status: Initiated

Objective: To document the faunal diversity of Upper Siang District, Arunachal Pradesh, NE India.

Progress: Two surveys have been conducted so far. A total of 369 specimens representing 86 species under seven faunal groups were collected: Amphibia (3 species), Lepidoptera (50 species), Hemiptera (1 species), Orthoptera (19 species), Odonata (1 species), and Hymenoptera (9 species). Several insect taxa with potential ethnobiological significance were noted. Specimens are currently under further taxonomic study.

Preliminary data suggest active entomophagy practices among Nishyi tribes, involving a broad range of edible insect taxa, especially Orthopterans and Hymenopterans.



Argynnis hyperbius Linnaeus, 176

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MARINE AQUARIUM AND REGIONAL CENTRE (MARC), DIGHA, WEST BENGAL



The Marine Aquarium and Regional Centre (MARC) was established on July 1, 1989. The centre has three distinct wings viz. research centre, aquarium and marine museum in addition to facilities for mass education to people. The research wing of the centre started functioning in 1989; however, the aquarium was opened for public since 2003 and the Marine museum with more than five hundred marine species of vertebrates and invertebrates displayed since 2016, and the Sundarban walkthrough diorama, 42 feet long Brydes whale skeleton and Instrumentation museum were displayed since 2017. Area under jurisdiction includes all the coastal states of India, covering 7517 kilometres. It was set up with the objectives of conducting education and awareness programmes through the marine aquarium and marine museum which is an integral part of MARC, and providing an infrastructure facility for conducting professional training courses on coastal and marine ecosystems. More than 17 training programmes were provided to several students, research scholars, researchers of colleges and universities, forest officials, coastal police, officials of the fishery department, coastal community, and State Government Officials of West Bengal. The museum of this Centre holds a display of more than 300 species for general visitors and the public. Total holdings of the Centre include 95,676 specimens, of which 60,569 specimens are named collections, 35,107 are unnamed specimens, and 71 are Type specimens. This regional centre has completed 23 Annual Research Programmes involving marine faunal exploration in various Protected and non-protected areas of Coringa Wildlife Sanctuary, Andhra Pradesh, Gulf of Mannar, Tamil Nadu, Andaman & Nicobar Islands, Lakshadweep, Gujarat, Odisha, and West Bengal along with studies on diversity, taxonomic, status survey and associated fauna from different ecosystems. *The Centre has published 03 books, more than 145 research papers in various reputed journals, 30 book chapters, 02 checklists, and 22 abstracts published.* The Centre was recognized as a Research Centre for conducting research leading to the Ph.D. degree of the West Bengal State University, Kolkata, Berhampur University, and Fakir Mohan University, Odisha. More than three lakh visitors including foreigners, journalists, senior officers, college & school staff and students, and research scholars from different reputed intuitions/universities visited the marine aquarium and museum of the Centre.

Marine Faunal Diversity of Digha and Adjacent Areas, West Bengal

01

Investigators: Dr. S. Balakrishnan, Dr. P.C. Tudu, Dr. Aditya Kapil Valiveti and Mr. Ajeet Kumar

Period: April 2024 to March 2027

Status: Initiated

Objective: To document marine fauna of Digha and surroundings, identify species requiring conservation, publish status reports, and describe new records or species.

Progress: Three surveys yielded 8,943 specimens across diverse taxa. Identified specimens include 3,112 individuals representing 332 species: Mollusca (197 species, 2557 specimens), Crabs (68 species, 316 specimens), Fishes (17 species, 32 specimens), Polychaetes (16 species, 110 specimens), and Nematodes (34 species, 97 specimens).



Perna viridis Linnaeus, 1758



10

Externally Funded Projects

ZSI scientists at both Headquarters and Regional Centres are engaged in externally funded projects supported by 12 agencies. These projects cover a wide range of research areas, including taxonomy and biodiversity documentation, biosystematics, management plans, population assessment and conservation of threatened species, health assessment and restoration of coral reefs, molecular systematics, phytogeography, DNA barcoding, aquatic ecology, pollinator studies, long-term ecological observatories, environmental impact assessments, biodiversity corridor baseline surveys, status, population distribution and habitat modeling, translocation and rehabilitation of corals, conservation of Red Panda, Strengthening Networks and Enforcement for Pangolin Conservation in South Asia and West Africa, faunal inventories of protected areas, and human-wildlife conflict management across various ecoregions of India.



Documentation, Conservation and Utilization of Indigenous Mountain Pollinators – with Special Reference to Himalayan Bumblebees 01

Funding agency: National Mission on Himalayan Studies

Investigator: Dr. R.H. Raina

Co-Investigators: Dr. V.P. Uniyal (WII, Dehradun), and Dr. Devanshu Gupta

Period: July 2020 to March 2024

Sanctioned at: DRC, ZSI-Jodhpur

Status: Completed

Objectives:

- i. To identify that priority geographic areas and habitats that most need to be conserved to prevent extinctions of rare Himalayan bumblebees.
- ii. To strengthen the network of expertise available for bumblebee conservation in the Himalaya, so that conservation assessments can be kept current and so that expertise can be targeted to address the highest priorities for conservation.
- iii. To documentation of Indigenous Mountain pollinator's viz., bumblebees, mining bees and leafcutter bees (Apoidea) to confirm how their diversity changes along the great expanse of the Indian Himalaya.
- iv. To describe their distribution as stratified by elevation, by region, and by habitat.
- v. To compile bumblebee/mining bee/leafcutter bee visit records in databases so that information on host plants can be searched to discover important linkages in insect-plant relationships.
- vi. To analyze linkages between mountain pollinating bees viz. bumblebees, leafcutter bees and mining bees with flowering plants to discover their role in conserving the plant genetic diversity.
- vii. To capitalize fully on the diversity of plants depending on these economically important bee species occurring at different elevations of the IHR from 1000–5500m amsl.

viii. To extend an active outreach programme to local farmers for education on the role and value of these pollinators in the farmers' lives.

ix. To describe new species, if any.

Outcome: Final Technical Report and Statement of Expenditure submitted to NMHS. One JPF was awarded a Ph.D. under this project. The project was rated "Very Good" by NMHS evaluators. Two NAAS-rated papers were published, one SCI paper was accepted, and two are under review. A documentary on Himalayan bumblebees was released and disseminated via NMHS and YouTube.

A Pilot Project on Biodiversity Corridor – Baseline Survey and Feasibility Assessment under Project for Improvement of Himachal Pradesh Forest Ecosystems Management & Livelihoods (PIHPFEM&L) 02

Funding agency: Forest Department, Government of Himachal Pradesh

Investigator: Dr. Lalit Kumar Sharma

Co-Investigators: Dr. Mukesh Thakur, Dr. G. Maheswaran, Dr. Basudev Tripathy and Dr Bheem Dutt Joshi

Period: August 2020 to March 2024

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- i. To identify potential areas for Biodiversity/ ecological corridor designation on the basis of primary surveys and secondary literature reviews.
- ii. To assess the biodiversity (flora and fauna) and prepare a bio-physical inventory along with identification of focal/target faunal species.
- iii. GIS mapping and delineation of the potential corridor network of protected areas with potential corridor designation.

- iv. To assess the current status of livelihood of local community, biodiversity conservation and human-wildlife conflict for the potential areas for biodiversity/ecological corridor.
- v. To assess the impact of biodiversity corridor designation of the potential areas on the livelihood of local communities along with probable options for same, biodiversity conservation and human-wildlife conflict mitigation.
- vi. To develop a comprehensive strategy and action plan for implementation of biodiversity corridor project for effective biodiversity conservation.

Outcome : Biological corridors were mapped and identified in the Great Himalayan landscape of Kullu and Chamba districts. These corridors will be used by the Forest Department for landscape level planning and conservation of biodiversity in the region.

Significant findings : The biodiversity corridors project was a first of its kind in India and ZSI could be able to identify the movement corridors of mammals in the region in a comprehensive way for effective conservation and planning.

Species/Area Specific Human-Wildlife Conflict Management Baseline Survey and Development of Comprehensive Strategy for its Mitigation in Selected Districts of Himachal Pradesh 03

Funding agency: Forest Department, Government of Himachal Pradesh

Investigator: Dr. Lalit Kumar Sharma

Co-Investigators: Dr. Mukesh Thakur, Dr. G. Maheswaran, Dr. Basudev Tripathy

Period: August 2020 to June 2024

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- i. Assess the nature and extent of human wildlife conflicts in terms of species /area/ season/

- pattern etc. in the project landscapes mainly focused on 4 species i.e. common leopard, black bear, monkey and wild boar.
- ii. Designing a comprehensive conflict management strategy with species specific guidelines. This includes preventing or reducing losses, providing suitable compensatory mechanisms (where needed), exploring options for alternative livelihoods and improving attitudes towards conservation.
- iii. Developing Standard Operating Procedures (SOPs) for action related to wildlife attack.
- iv. Training need assessment of the stakeholders for effective mitigation of Human-wildlife Conflicts.

Outcome: The Final Technical Report was submitted to the funding agency, and the project report was successfully defended.

Significant findings: The final draft report detailing the current status and magnitude of human-wildlife conflicts in the JICA landscape was submitted.

Population estimation and assessment of Human-Wildlife conflicts for conservation and management planning of Common Leopard and Asiatic Black Bear in Himachal Pradesh 04

Funding agency: Forest Department, Government of Himachal Pradesh

Investigator: Dr. Lalit Kumar Sharma

Period: December 2020 to January 2024

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- i. Assess the nature and extent of human-wildlife conflicts in the entire state of HP with respect to leopard and black bear and design a comprehensive conflict management strategy with species-specific guidelines.
- ii. Population estimation of black bear and leopard in the entire state of Himachal Pradesh for conservation and management planning.

Outcome: State-level population estimates of Himalayan black bear and common leopard were completed and included in the final report for conservation planning. Human-wildlife conflict spatio-temporal hotspots were mapped and mitigation strategies were identified.

Significant findings: This is a first study in Indian Himalayan Region where the population assessment of two large mammals was carried out at State level using the non-invasive DNA analysis. The study could identify the low to high density regions for both the species in Himachal Pradesh. Further, ZSI have provided a range specific human-wildlife conflict mitigation strategy for both the species

Parasitic wasp of the families Encyrtidae & Mymaridae (Hymenoptera: Chalcidoidea) and their utilization and management in sucking insect pests on Agricultural and Horticultural crop of North-East India 05

Funding agency: Anusandhan National Research Foundation

Investigators: A. Rameshkumar and Dr. S.I. Kazmi

Period: December 2020 to April 2024

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- To assess the diversity of Encyrtidae and Mymaridae among unexplored northeastern states (Manipur, Meghalaya, Mizoram, Nagaland, Tripura).
- To provide detailed descriptions and illustrations of new / undescribed taxa with distributional data for known species.
- To identify endemic and threatened species in the region.
- To prepare baseline data of encyrtids and mymarids with host information.

v. To generate distributional/GIS maps.

vi. To identify major plant-pest-parasitoid complexes and explore biocontrol options.

Outcome: Between December 2020 and April 2024, six extensive surveys were conducted to explore the rich diversity of encyrtids and mymarids in North East India, covering the states of Manipur, Mizoram, Meghalaya, Nagaland, and Tripura. A total of 130 days were spent meticulously examining seven districts in Manipur, three districts in Mizoram, four districts in Meghalaya, three districts in Nagaland, and four districts in Tripura using four sophisticated collection methods - host rearing, yellow pan trap, Malaise trap, and net sweep. 810 meticulously identified specimens, complete with registration numbers, are safeguarded in the esteemed National Zoological Collection (NZC) at the Zoological Survey of India, New Alipore in Kolkata

Significant findings: Five research papers (03 from SCI journals and 02 from NAAS rated journal) have been published. Two new species were described and two species were reported for the first time from India and published in peer-reviewed journals.

Morphological studies on the whiteflies (Hemiptera: Aleyrodidae) of Andaman and Nicobar Islands, India with special emphasis to Indian Part of the Sundaland Biodiversity Hotspot 06

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. Anil Kumar Dubey

Period: August 2021 to December 2024

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- To document whiteflies occurring in Andaman and Nicobar Islands.
- To prepare taxonomic identification keys to whiteflies occurring in Andaman and Nicobar Islands.
- To discover new genera/species of whitefly, if any from Andaman and Nicobar Islands.
- To record whitefly genera/species already known from other countries and discuss their geographical range expansion.
- To prepare host plants check-list of whiteflies occurring in Andaman and Nicobar Islands.

Outcome: Four surveys covering 56 days yielded 292 samples and 1174 puparia, resulting in 585 mounted slides. This study expanded the known whitefly diversity in A&N Islands from 25 species (18 genera) to 81 species (40 genera).

- 21 new species and 5 new genera discovered; 56 species in 22 genera newly reported.
- 30 species and 8 genera endemic to A&N Islands.
- Two species recorded for the first time in India.
- Three invasive species newly reported.
- Genus *Edita aleyrodes* redefined; 58 type specimens deposited in ZSI.
- Host plants (44 species, 39 genera, 31 families) identified.
- 84 SEM images taken; 5 SCI and 2 NAAS papers published.

Inventorisation of aquatic species and identification of biodiversity hotspots in the North-Eastern Region of India 07

Funding agency: GIZ, NERAQ project Germany & India

Investigator: Dr. Lalit Kumar Sharma

Co-Investigators: Dr C. Raghunathan and Dr. Dhriti Banerjee

Period: December 2022 to June 2024

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- Assessing the fish and invertebrate resources in the four pilot sites and other 12 sites identified by ZSI and GIZ.
- Coordinate with Manipur University in regional assessment of IUCN Red List – sending experts in workshops, supplement inventory data (raw/published) and support in Conservation Priority Setting Process.
- Identification and assessment of impacts of existing and future anticipated anthropogenic risk, including the consequences of climate change on selected fish species.
- Cooperation with IfB Potsdam on developing a handbook on sampling procedures.
- Digitalization of the inventory data collected for the four implementation states.
- Vulnerability assessment on species level for the four NERAQ pilot sites in cooperation with IfB Potsdam and state research institutions.

Outcome: Final Technical Report (FTR) was submitted and defended before the funding agency.

First fine-scale aquatic biodiversity mapping conducted for four northeastern states, creating a baseline for hotspot identification and conservation strategies.

Significant findings: The NERAQ aquatic faunal diversity assessment study was the first of its kind in India where the entire aquatic faunal richness was assessed and mapped in the four states of North-Eastern region. Further, for the first time the aquatic resources of the region were classified into

typologies. A manual of field sampling of fishes was developed and published for the region. Further, state specific policy recommendations were provided to combat and mitigate the impacts of climate change in the four participating states of the North-eastern region.

Population survey of Red Panda in Bhutan through faecal DNA analysis

08

Funding agency: Department of Forests and Park Services, Royal Government of Bhutan

Investigator: Dr. Mukesh Thakur

Period: June 2023 to June 2024

Sanctioned at: HQ, ZSI-Kolkata

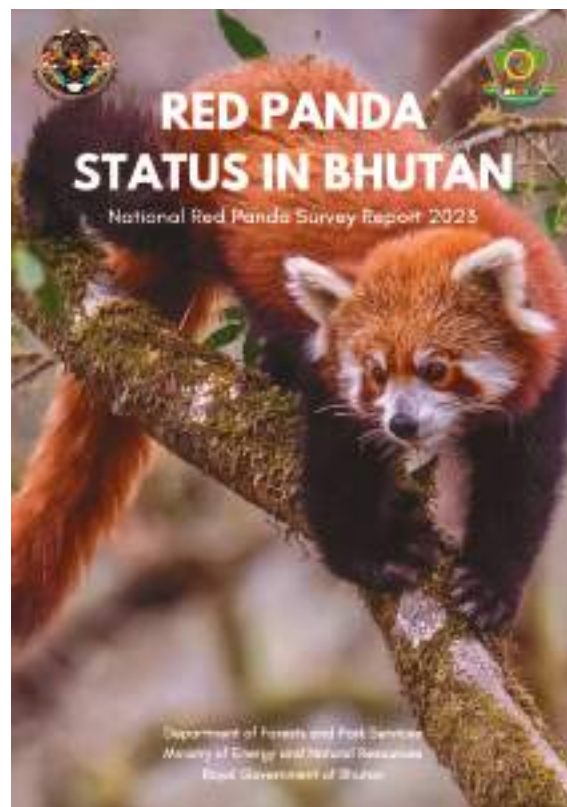
Status: Completed

Objectives:

- To assess the current status, distribution and potential threats of Red Panda populations in Bhutan.
- To investigate population genetic parameters (genetic diversity, extent of inbreeding, effective population size, population genetic structure and gene flow within and between subpopulations) of Red Panda populations in Bhutan.

Outcome: 462 of 482 fecal samples qualified for DNA analysis. 432 mitochondrial control region sequences were obtained, showing haplotype sharing between Bhutan and India. Microsatellite analysis identified 302 unique individuals across Bhutan.

- Bhutanese red pandas exhibit lower genetic diversity due to a bottleneck ~5000 years ago, followed by expansion.
- Three genetic clusters identified under a metapopulation structure.
- Higher genetic connectivity between central and eastern Bhutan populations; higher resistance between central and western populations.
- Final technical report submitted and edited version published by the Royal Government of Bhutan.



Red Panda Status in Bhutan

Stewardship development of entrusted networks and strengthening enforcement in South Asia and West Africa with prime focus of safeguarding pangolin

09

Funding agency: Convention Biological Diversity (CBD), Bio-Bridge Initiative

Investigator: Dr. Mukesh Thakur

Period: December 2023 to January 2025

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

Objectives:

- To develop, demonstrate and knowledge exchange for establishing wildlife forensic methods for identifying variety of wildlife parts and products (e.g. pangolin scales, elephant ivory, snake venom, animal oil, Shahtoosh hairs, musk pods, bear bile, whale ambergris etc.) among the entrusted network partner institutions.

- ii. To standardize morphological diagnostic keys and develop a common DNA forensics panel/kit for generating region-specific phylogeographic signature of pangolins.
- iii. To strengthen and capacity building of the frontline staff, forest rangers, guards and enforcement officials in formulating anti-poaching strategies and prepare awareness materials for school children, local communities to engage them as stewards for wildlife conservation.

Outcome: The project enhanced wildlife forensic capacities and international cooperation between India and Ghana to counter illegal pangolin trade. Forensic tools were developed and demonstrated.

Capacity-building workshops and awareness programs were conducted. Strategic partnerships were formed with the University of Ghana, NFSU, and Amity University.

- Standardized DNA forensic protocols and a Pangolin Indexing System (PIS) were developed.
- Forensic tools now enable reliable tracking of pangolin trade routes.
- Institutional frameworks for an Asian–African Wildlife Forensic Network were established.
- Community engagement aligned project outcomes with Global Biodiversity Framework targets.



Capacity Building Workshop on Safeguarding Pangolins held in Accra, Ghana

eDNA analysis of aquatic fauna in Bakreshwar Reservoir, West Bengal

10

Funding agency: GIZ, NERAQ project Germany & India

Investigator: Dr. Mukesh Thakur

Period: June 2024 to March 2025

Sanctioned at: HQ, ZSI-Kolkata

Status: Completed

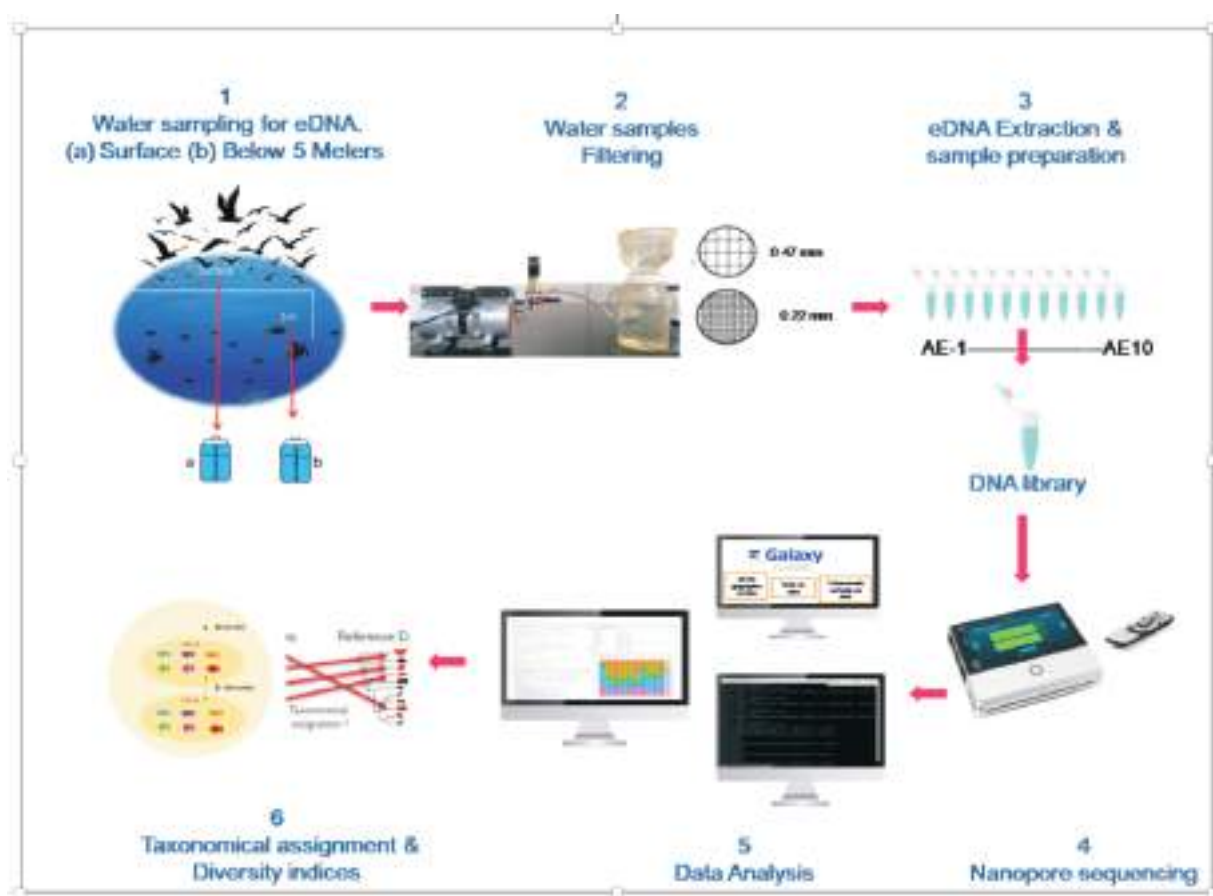
Objectives:

- To conduct comprehensive eDNA sampling at 11 designated sites around Bakreshwar Reservoir across two distinct seasons (dry and wet).
- To analyze the presence and distribution of fish and aquatic mammal species to understand their biodiversity and ecological roles.

- To provide data-driven recommendations for the conservation management of aquatic species in the reservoir area.

Outcome: eDNA sampling across 10 sites during monsoon and winter was completed using Oxford Nanopore sequencing. Data revealed diversity patterns in fish, mammals, birds, and reptiles. Community composition was analyzed seasonally.

- 6 vertebrate classes and 32 genera were detected.
- Mammals were dominant in both seasons; fish and bird diversity varied seasonally.
- Alpha diversity showed higher evenness in monsoon; winter had greater richness.
- Results offer a replicable model for aquatic biodiversity monitoring.
- Data useful for assessing ecological risks from the proposed floating solar project.



eDNA analysis of aquatic fauna in Bakreshwar Reservoir

Translocation and Rehabilitation of True Corals from the Demarcated Route, Proposed for Laying Oil Pipeline by IOCL at Narara, Gujarat

11

Funding agency: Indian Oil Corporation Ltd.

Investigator: Dr. Rajkumar Rajan

Period: July 2021 to July 2026

Sanctioned at: MBRC, ZSI-Chennai

Status: Ongoing

Objective: To rescue and rehabilitate all the coral colonies excavated from the demarcated IOCL pipeline routes falling in the intertidal and sub-tidal areas of the Gulf of Kachchh Marine National Park, Narara Bet, Gujarat, and monitor them until they are fully established.

Progress: A total of 266 field surveys were conducted across intertidal, subtidal, and reef edge areas at Narara and Kalubhar Island. Translocated corals were monitored and maintained through fouling removal and site management. Coral relocation was completed by March 2025, with secure attachment at selected Natural Recipient



Survey on True Corals from the Demarcated Route, Proposed for Laying Oil Pipeline by IOCL at Narara.

Sites. Despite bleaching events and monsoon impacts degrading 45% of natural corals, translocated corals showed resilience. Continuous monitoring included coral health, survival, growth, associated fauna, and new recruitment. Specialized research on reef associates was also conducted.

Coral translocation was successful, with high survival and recovery despite bleaching and monsoonal challenges. Expert-led studies strengthened reef restoration efforts.

Molecular taxonomy, distribution, and species diversity of fishes of the order Gobiiformes from Indian Waters

12

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. Bineesh. K. K

Period: January 2022 to April 2025

Sanctioned at: MBRC, ZSI-Chennai

Status: Ongoing

Objectives:

- To do the taxonomy, species diversity and distribution of order Gobiiformes from Indian waters.
- Generate mitochondrial COI sequence signatures of the fishes from the order Gobiiformes.

Progress: Surveys were conducted across coastal states and UTs, yielding 1112 gobiid specimens. Fifty species belonging to 31 genera were identified. Several new national and regional records were documented, including *Amblyeleotris downingi*, *Oxyurichthys omanensis*, and *Vanderhorstia ambanoro*. Genera *Tridentiger* and *Coryogalops* were recorded for the first time in India. A total of 189 DNA barcodes were generated covering 88 species.



Sicyopterus griseus (Day, 1877)

Assessment of egg parasitoid-host associations in the cultivated landscapes of West Bengal, through DNA metabarcoding and rearing, with special focus on Scelionidae (Hymenoptera: Insecta) 13

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. Rajmohana K.

Co-Investigator: Dr. K. P. Dinesh

Period: January 2022 to January 2025 (extended till 24 May 2025)

Sanctioned at: HQ, ZSI-Kolkata

Status: Ongoing

- i. DNA metabarcoding of arthropod eggs.
- ii. Host-parasitoid associations.

Progress: Three surveys totalling 23 days were conducted in West Bengal for arthropod egg sample collection and rearing. Thirty egg sacs/clusters were collected. An SRF visited WGRC Calicut to study *Scelionidae* in NZC. DNA metabarcoding was completed for spider, lepidopteran, and hemipteran eggs. Manuscripts on Lepidoptera and Hemiptera are in final stages of preparation.

The project achieved the first global DNA metabarcoding of spider eggs, with protocol and workflow development. A paper on *Idris* parasitoids, including six new host associations and a novel gregarious developmental strategy, was published in *PLOS One*. Four new species of *Idris* wasps were described, and the manuscript is accepted in the *European Journal of Taxonomy*.

Conservation Management of Lakshadweep Coral Reefs – Long-term Monitoring Programme 14

Funding agency: Department of Environment and Forest, Administration of the U. T. of Lakshadweep

Investigator: Dr. Rajkumar Rajan

Period: October 2015 to October 2025

Sanctioned at: MBRC, ZSI-Chennai

Status: Ongoing

Objectives:

- i. Monitoring the health of Lakshadweep coral reefs with regard to climate change and local impacts.
- ii. Studies on the reproductive biology of coral species: fecundity, larval development and competency.
- iii. Modelling larval transport across reefs.
- iv. Studies on coral resilience to bleaching: Zooxanthellae density estimations on coral species across depths and seasons; studies on zooxanthellae clade diversity in coral species.
- v. Studies on fish diversity assemblages over benthic structural gradient.
- vi. Biodiversity assessments of coral and fish species assessments.

Progress: Two surveys were conducted during the reporting period. Sampling to assess fish recruitment was undertaken in 12 lagoon and 6 outer reef sites. 379 fish specimens (larvae and juveniles) were collected. Data collected included video recordings of fish assemblages, coral colony health and structure, specimen morphometrics, water temperature, and depth.



Lakshadweep Coral Reefs – Long-term Monitoring Programme

LTEO-Arthropod Project

15

Funding agency: Ministry of Environment, Forest and Climate Change

Investigator: Dr. K. A. Subramanian

Period: March 2020 to March 2026

Sanctioned at: SRC, ZSI-Chennai

Status: Ongoing

Objectives:

To establish long term ecological observatories for select arthropod groups in different biogeographic zones of India.

Progress: Two long-term arthropod surveys were conducted in Kerala and Tamil Nadu regions of the Nilgiri Biosphere Reserve. A total of 146 sites were surveyed, resulting in the collection of 6141 specimens representing 12 arthropod groups. The collected samples are currently under identification.

- iv. GIS mapping and delineation of the potential corridor network of protected areas with potential corridor designation.
- v. To access the current status of livelihood of local community, biodiversity conservation and human-wildlife conflict for the potential areas for biodiversity/ecological corridor.
- vii. To access the impact of biodiversity corridor designation of the potential areas on the livelihood of local communities along with probable option for same, biodiversity conservation and human-wildlife conflict mitigation.
- vii. To develop a comprehensive strategy and action plan for implementation of biodiversity corridor project for effective biodiversity conservation.

Progress: Field data collection was undertaken in Namdapha Tiger Reserve from September 2024 to March 2025. One major finding was disturbance from large-scale insect harvesting (e.g., *Coridius* spp.) by local communities (Lisu and Chakma), which drives herons away from foraging sites. Data analysis and report preparation is ongoing in Kolkata.

What causes critically low numbers of White-bellied Heron: changes in habitat characteristics and/or associated evolutionary traits?

16

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. G. Maheswaran

Period: December 2023 to December 2026

Sanctioned at: HQ, ZSI-Kolkata

Status: Ongoing

Objectives:

- i. What are the reason for low numbers of White-bellied Heron in Namdapha Tiger Reserve, Arunachal Pradesh
- ii. To identify potential areas for Biodiversity/ecological corridor designation on the basis of primary surveys and secondary literature reviews.
- iii. To assess the biodiversity (Flora and Fauna) and prepare a bio-physical inventory along with identification of focal/target faunal species.

Morphological and Molecular Taxonomy of Family Thripidae (Terebrantia: Thysanoptera) from India

17

Funding source: Anusandhan National Research Foundation

Investigator: Dr. Kaomud Tyagi

Co-Investigator: Dr. Vikas Kumar

Period: March 2024 to March 2027

Sanctioned at: HQ, ZSI-Kolkata

Status: Initiated

Objectives:

- i. Exhaustive collection, Morphological identification, Construction of illustrated keys & diagnostic accounts of the species, describe new taxa, if any.
- ii. Revision of important genera in Family Thripidae to resolve major species complexes

using a combined approach of morphology and molecular tools.

- iii. Phylogenetic relationship in Family Thripidae to resolve classification issues using mitogenomes phylogenomics approach to test the whether newly discovered highly conserved character reflects the phylogenetic relationship.

Progress: Four surveys were conducted. DNA isolation was completed for 20 species of thrips for whole genome sequencing. Whole genome sequencing data for 16 species were generated, and mitogenome assembly was completed for 8 species. Three research papers published in *Zootaxa*, including descriptions of three new species and one new Indian record. The first description of male *Thrips wedeilae* (Priesner) was also published. One manuscript is under review in *Scientific Reports*.

- iii. To assess the Carbon dynamics, rate of well mixed greenhouse gas emissions and environmental parameters of high-altitude wetlands.
- iv. To assess economical valuation and ecosystem health of high altitude wetlands for sustainable management.
- v. To augment nature-based livelihood and strengthen local institution for conservation of wetland in Sikkim.

Progress: Three surveys were conducted at Bhekal Tal (Uttarakhand), Hanspokahri, Tsomgo (Sikkim), and Sangestar Tso (Arunachal Pradesh). A total of 162 triplicate samples were collected. Physico-chemical and soil mineralogical analysis of 23 samples was completed. DNA was extracted from 96 samples, with NGS amplicon data for 108 and WMS data for 18 samples. Two international book chapters were published.

Multidimensional Assessment of Ecological Dynamics and Ecosystem Health of Selected High-Altitude Wetlands of Indian Himalayan Region (IHR) for Effective Conservation and Management Planning 18

Funding agency : National Mission on Himalayan Studies

Investigator : Dr. Vikas Kumar

Co-Investigators : Dr. Inderjeet Tyagi, Dr. Kaomud Tyagi and Dr. S. Gurumayam

Period: March 2024 to March 2027

Sanctioned at: HQ, ZSI-Kolkata

Status: Initiated

Objectives:

- i. To map and monitor the High altitude wetlands (HAWs) using integrated remote sensing and field-based observations (spatio-temporal) on various water and sediment characteristics.
- ii. To understand the wetland community structure and dynamics using field and eDNA-based approaches and functional traits of key biodiversity elements.

Diversity and Distribution Pattern of Ground-Dwelling Spiders (Arachnida: Araneae) along the Elevation Gradients in Meghalaya 19

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. Souvik Sen

Period: March 2024 to March 2027

Sanctioned at: HQ, ZSI-Kolkata

Status: Initiated

Objectives:

- i. To explore the diversity pattern and guild structure of ground-dwelling spiders in Meghalaya.
- ii. To study the taxonomy of ground-dwelling spiders and alleviate the taxonomic redundancy exist among closely related taxa using DNA barcoding.
- iii. To prepare distribution maps of ground-dwelling spiders in Meghalaya.

- iv. To prepare a checklist of ground-dwelling spiders of the study area with recognition of threatened and endemic species.

Progress: Four surveys were conducted across various localities. A total of 328 specimens representing 30 species under 21 genera and 5 families were examined. One species (*Psechrus nathanael*) was described as new to science. Two species (*Pardosa tuberosa*, *Thiania abdominalis*) were new records for India.

Long-term monitoring of Jellyfish blooms along the Northern coastal waters of the Bay of Bengal

20

Funding agency: Indian National Centre for Ocean Information Services, Ministry of Earth Sciences

Investigator: Dr. Jasmine P.

Period: April 2024 to March 2026

Sanctioned at: HQ, ZSI-Kolkata

Status: Initiated

Objectives:

- To develop a management strategy for jellyfish blooms using data collected through in-situ, ex-situ and remote sensing data.
- To explore the conducive conditions of jellyfish blooms in terms of environmental preferences.

Progress: A reconnaissance survey was conducted for transect selection and experimental design validation. Field sampling along the East Coast of India was carried out, covering Kakinada, Visakhapatnam, Rushikulya, Gopalpur, Puri, Dhamra, Digha, and Sundarbans. Environmental parameters such as pH, temperature, salinity, and dissolved oxygen were recorded. Jellyfish, salps, ctenophores, fishes, and micro- and mesozooplankton were collected. Water samples were obtained for chlorophyll and nutrient analyses. Notable collections include *Acromitus flagellatus* (4 specimens), fish (4 adults, 51 juveniles), and ctenophores from Sundarbans; 10 *Crambionella* sp. from Kakinada; and 50 *Cyanea* sp. from the Odisha coast. Recurring salp blooms in Visakhapatnam

were documented for further molecular analysis. Specimen parts (oral arms, gonads, tentacles, etc.) were preserved for detailed studies. Analytical work is ongoing.

Species distribution shows regional and seasonal variation: *Crambionella* sp. in Andhra Pradesh, *Cyanea* sp. in Odisha, and *Acromitus flagellatus* in West Bengal.

Haematophagous biting midges (Diptera: Ceratopogonidae) of the Andaman and Nicobar Islands with an emphasis on their ecological, molecular aspects and association with human and livestock

21

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. Atanu Naskar

Period: April 2024 to March 2027

Sanctioned at: HQ, ZSI-Kolkata

Status: Initiated

Objectives:

- Assess Ceratopogonidae species assemblage with respect to human population gradient in Andaman and Nicobar Islands.
- Examine abundance pattern with changing seasonal parameters along with diet activity of dominant hematophagous Ceratopogonidae.

Progress: A survey conducted in November 2024 led to the collection of 279 specimens; 141 were identified and slide-mounted. A total of 3529 adult *Culicoides* midges representing 23 species (5 subgenera) were recorded. Thirteen species are new records for India; 10 species were already known from the mainland. This is the first systematic account of Ceratopogonidae from the Andaman and Nicobar Islands. Diagnostic features, distribution, and remarks of all newly recorded species were documented. One research article has been published in the journal *Parasites and Vectors*.

Restoration of Reefs Using Electricity – A Suitable Technology to Enhance and Conserve Gulf of Kachchh Reefs

22

Funding agency: Marine National Park Conservation Society, Gujarat Forest Department, Jamnagar

Investigator: Dr. Raj Kumar Rajan

Period: April 2024 to March 2025

Sanctioned at: MBRC, ZSI-Chennai

Status: Initiated

Objectives:

- To monitor and maintain the deployed Biorock coral reefs at Mithapur and Arambhada in the GoK Marine National Park & Sanctuary area.
- To conduct the biodiversity studies at the Biorock deployed sites.
- To assess the biodiversity and most resistant as well as sediment adopted coral species of the area.
- To monitor the water quality parameters of the Gulf of Kachchh using Hydro lab - multi parameter-kit.
- To maintain the Biorock structures, assess its ampere load and document its progress and mineral accretion.
- To conduct literature survey on coral restoration, sedimentation, coral bleaching, reproduction, spawning, coral growth on Biorock and accretion level measurement.

Progress: Nineteen field visits were undertaken at Mithapur and Arambhada. Biorock structures received regular electricity (up to 8.00 A), and fouling organisms were cleared routinely. Coral growth and survival data were collected, with *Turbinaria mesenterina* showing maximum growth and *Acanthastrea hillae* the least. Seasonal SST ranged from 22.1°C to 31°C. Fish species including batfish and brown demoiselle were observed. Monsoon damage to buoys and panels was rectified. Regular review meetings were conducted to discuss coral performance and site upgrades. Biorock reefs demonstrated resilience and growth,

with consistent power supply, seasonal patterns observed, and post-monsoon restoration successfully managed.



Survey at Gulf of Kachchh Reefs

Climate influence on mosquito demographics, dengue and chikungunya in metropolitan cities located in different climate regions of India: a multi-centric study

23

Funding agency: Indian Council of Medical Research

Investigator: Dr. D.S. Suman

Co-Investigator: Dr. Pratip Shil

Period: May 2024 to May 2025

Sanctioned at: EBRC, ZSI-Gopalpur-on-Sea

Status: Initiated

Objective:

Surveillance of mosquito fauna of Kolkata.

Progress: In its third year, biweekly mosquito collections using traps were conducted in five Kolkata wards, yielding 6001 specimens. Six species were identified, and all data were submitted to the ICMR portal. Four major surveys were also undertaken.

Ae. aegypti and *Ae. albopictus* were found co-occurring in dengue-prone areas year-round.

Diversity, Distributional Pattern and Pollination Ecology of Wild Bees (Hymenoptera: Apoidea) Along the Elevation Gradient in North West Himalaya 24

Funding agency: Anusandhan National Research Foundation

Investigator: Dr. R.H. Raina

Period: July 2024 to July 2027

Sanctioned at: DRC, ZSI-Jodhpur

Status: Initiated

Objectives:

- To enumerate and assess the diversity and distributional patterns of Wild bee fauna in the Union territories of J&K and Ladakh.
- To study the taxonomy of Wild bee fauna and their pollination attributes in the high land ecosystem.
- To explore the major threats to the conservation of wild bee fauna.

Progress: Initial field surveys, data collection, and specimen identification initiated. A survey in Jammu and Kashmir (Sept–Oct 2024) resulted in 1388 specimens collected, 1187 processed, and 20 species identified and digitized.

First records of *Bombus bohemicus* Seidl, 1837 in India and *Bombus separandus* in Jammu and Kashmir.

Deep-Sea Chondrichthyans of India: Taxonomy, distribution, biology and status 25

Funding agency: Deep Ocean Mission, Ministry of Earth Sciences

Investigator: Dr. Bineesh. K. K

Period: July 2024 to July 2026

Sanctioned at: MBRC, ZSI-Chennai

Status: Initiated

Objectives:

- To do the taxonomy, species composition, distribution and abundance of deep-sea Chondrichthyans from Indian EEZ
- Generate mitochondrial NADH2 and COI sequence of Chondrichthyans species from the Indian EEZ
- To find out the abundance of deep-sea Chondrichthyans by using BRUVs
- To determine the migratory pattern and spatio-temporal aggregation of sharks using satellite tagging

Outcomes: Six field surveys conducted across nine coastal regions collected 325 deep-sea chondrichthyan specimens. Notable outcomes include the discovery of four new species (*Squalus hima*, *Lago gopalakrishnani* n. sp., *Dipturus dhritiaen* n. sp., *Apristurus drona* n. sp.) and rediscovery of *Heteronarce mollis*. DNA barcodes were generated for 85 specimens. BRUVs were deployed at Kavaratti (50 m depth) to assess shark and ray abundance.

Ecology, diversity, and distribution patterns of meiofauna assemblages from the Bay of Bengal Coast with Special Reference to Polychaete 26

Funding agency: Deep Ocean Mission, Ministry of Earth Sciences

Investigator: Dr. S. Balakrishnan

Period: April 2025 to March 2027

Sanctioned at: MARC, ZSI, Digha

Status: Initiated

Objectives:

- To investigate the taxonomy of meiofauna communities in selected coastal and offshore regions of the Bay of Bengal using morphological and molecular characteristics.
- To understand the ecology and diversity of meiofauna communities in coastal and offshore environments.

- iii. To investigate the ecological significance of meiofauna communities and to identify the most characteristic or indicator species in various environmental settings.
- iv. To create the DNA Barcodes of meiofauna occurring along the east coast of India using various DNA markers mitochondrial COI gene.
- v. To train upcoming researchers in the morphological and molecular taxonomic identification of meiofaunal communities.

Progress:

One pilot survey has been conducted at the Digha coast.

At a Glance: Scientific Programmes 2024-2025

Programmes	Completed	Ongoing	Initiated	Total
Headquarters	27	12	17	56
Regional Centres	28	19	19	66
Externally Funded	10	6	10	26
Total	65	37	46	148



11

Publications





A total of 924 publications were published during the period.

1. Books/Monographs: 40
2. Book chapters: 194
3. Papers in SCI Journals: 177
4. Papers in NAAS Journals: 191
5. Papers in peer reviewed National & International Journals: 78
6. Online Checklist: 121
7. Popular articles: 16
8. Abstracts: 40
9. E-News: 12 Issues
10. Books in Hindi: 09
11. Hindi book chapters: 03
12. Popular articles in Hindi: 38
13. Hindi Magazines: 03
14. Abstracts in Hindi: 02

In addition, seven issues of the departmental journal *Records of the Zoological Survey of India* were published..

BOOKS/MONOGRAPHS: 40

1. Banerjee, D. and Sharma, I. 2024. *Fauna of Narayan Sarovar Wildlife Sanctuary, Gujarat: Conservation Area Series*, **79**: 253 pp. (Published by the Director, Zoological Survey of India, Kolkata).
2. Banerjee, D. and Sharma, I. 2024. *State Fauna-Rajasthan Conservation Area Series*, 420 pp. (Published by the Director, Zoological Survey of India, Kolkata).
3. Banerjee, D., Raghunathan, C., Rizvi, A.N. and Sengupta, J. 2024. *Animal Discoveries 2023: New Species and New Records*, 356 pp. (Published by the Director, Zoological Survey of India, Kolkata).
4. Banerjee, D., Raghunathan, C., Rizvi, A.N., Kamalakannan, M., Mandal, G. and Sen, S. 2024. *Annual Report 2023-2024*. 365 pp. (Published by the Director, Zoological Survey of India, Kolkata). ISBN: 978-81-8171-671-2
5. Bhunia, D. and Gupta, D. 2025. *Biodiversity of Scarabaeoidea (Coleoptera) in Kanha National Park, Madhya Pradesh, India: A Field Guide and Checklist*. AkiNik Publications, 1st edition, pp. 99.
6. 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.
7. Dalui, S., Thakur, M. and Sharma, L. 2024. *Conservation of the Red Panda in the Eastern Himalayas: Insights from the Indian Himalayan Region*, 159 pp. (Published by Cambridge Scholars Publishing Limited).
8. Debata, S., Jena, S. K., Krishna, H., Mohapatra, P.P. and Prakash, M. 2024. *Mammals of Godda*, 74 pp. (Published by Godda Forest Division, Government of Jharkhand).
9. Editor- Director, 2024. *Fauna of Ropar Wetland, Punjab (A Conservation Reserve and RAMSAR site), Wetland Ecosystem Series*, **23**: 219 pp. (Published by the Director, Zoological Survey of India, Kolkata).
10. Editor- Director, 2024. *Fauna of Valley of Flowers National Park, Uttarakhand: Conservation Area Series*. Published by the Director, Zoological Survey of India, Kolkata. **71**: 1-82.
11. Editor- Director, 2024. *Faunal Diversity of Dihang-Dibang Biosphere Reserve, Arunachal Pradesh: Conservation Area Series*, **76**: 364 pp. (Published by the Director, Zoological Survey of India, Kolkata).
12. Editor- Director, 2024. *Faunal Diversity of Sainj Wildlife Sanctuary, District Kullu (Himachal Pradesh). Conservation Area Series*, **78**: 156 pp. (Published by the Director, Zoological Survey of India, Kolkata).
13. Gupta, D., Ghosh, P., Sonali, S., Wani, I., Bhunia, D., Jena S.K. & Prakash, M. 2025. *Beetles of Godda, Jharkhand. Godda Forest Division, Jharkhand*. pp. 70. [ISBN: 978-81-971536-3-1].
14. Gupta, D., Sonali, S., Ghosh, S.K., Das, P., Jaiswal, D. and Chandra, K. 2024. *A Catalogue of Indian Hydrophiloidea (Insecta: Coleoptera)*. *Zootaxa*, **5546**(1): 1-92. <https://doi.org/10.11646/zootaxa.5546.1.1>.
15. Gurumayum, S. D. and Kosygin, L. 2024. *Ichthyofaunal diversity of Poma-Boroi River in Arunachal Pradesh and Assam, India*, Occasional Paper No., **417**: 76 pp. (Published

- by the Director, Zoological Survey of India, Kolkata).
16. Jaiswal, D., Karuthapandi, M., Jadhav, S. S., Kumar, B. B., Shankar, S., Kunte K. B. and Sulthana, S. R. 2024. *Threatened fauna of Andhra Pradesh*, 213 pp. (Published by Zoological Survey of India and Andhra Pradesh State Biodiversity Board)
 17. Kalawate, A.S. 2024. *An illustrated catalogue of moths (Lepidoptera) housed in the collections of Zoological Survey of India, Western Regional Centre, Pune, India (Part-I Pune district). Records of the Zoological Survey of India*, Occasional Paper No. **419**: 1–171. (Published by the Director, Zoological Survey of India, Kolkata).
 18. Kalawate, A.S., Palot, M.J., Valappil, B., Tripathy, B. and Banerjee, D. 2024. *A Field Guide to Common Butterflies and Moths (Lepidoptera) of Western Ghats*, 206 pp. (Published by the Director, Zoological Survey of India, Kolkata).
 19. Kotru, A., Chandran, N., Dubey, A. K., Prosvirov, A.S. 2025. *A catalogue of Indian Agrypninae Candèze, 1857 (Coleoptera: Elateridae)*, *Zootaxa*.
 20. Krishna, H., Saha, N., Majhi, B. K., Jena, S. K., Mohapatra, P. P. and Prakash, M. 2024. *Birds of Godda*, 280 pp. (Published by Godda Forest Division, Government of Jharkhand).
 21. Mahapatra, A. D., Mohapatra, P.P., Jena, S.K. and Prakash, M. 2024. *Reptiles of Godda*, 132 pp. (Published by Godda Forest Division, Government of Jharkhand).
 22. Maheswaran, G., Alam, I., Deuti. K. and Banerjee, D., 2024. *Fauna of Terai Ecosystem: 1-561*. (Published by the Director Zoological Survey of India, Kolkata). ISBN: 978-81-8171-642-2.
 23. Mishra, M., Tripathi K. and Kushwaha, S. 2024. *An Integrated Approach in Advancement of Biosciences*, 175 pp. (Published by Rathore Academic Research Publication, New Delhi).
 24. Naskar, A., Ghosh, D. and Banerjee, D. 2024. *An updated Catalogue of Indian Muscidae (Insecta: Diptera)*, Occasional Paper No., **421**: 162 pp. (Published by the Director, Zoological Survey of India, Kolkata).
 25. Palot, M.J., Tripathy, B. and Banerjee, D. 2024. *Avifauna of Important Bird Areas (IBAs) of Goa*, 279 pp. (Published by the Director, Zoological Survey of India, Kolkata).
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 32. सागर, अर्चना (2023) बदल गया हिमालय महान स शूलिनी संचेतना (3): 11
 33. सागर, अर्चना (2023) व्यापारी एवं उसके बेटे स शूलिनी संचेतना (3): 28-29
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1. 1st half yearly Bulletin titled "प्रकृति" in Rajbhasha.
2. 2nd half yearly Bulletin titled "प्रकृति" in Rajbhasha.
3. कलावटे, ए. एस. 2024. एक अनोखा एथलीट कोषिका, वार्षिक पत्रिका, अंक-3, सितम्बर 2024: 1-2

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1. अपर्णा एस कलावटे. 2024. "गोबर भृंगों का आहार दुनिया को कैसे साफ रख रहा है?" इन: राष्ट्रीय संयुक्त राजभाषा वैज्ञानिक संगोष्ठी-2024, राष्ट्रीय संयुक्त राजभाषा वैज्ञानिक संगोष्ठी-2024, आधारकर अनुसंधान संस्थान (ARI), सीएसआईआर-राष्ट्रीय रासायनिक प्रयोगशाला (CSIR-NCL), राष्ट्रीय कोशिका विज्ञान केन्द्र (NCCS) और भारतीय उष्णदेशीय मौसम विज्ञान संस्थान (IITM) द्वारा संयुक्त रूप से दिनांक 03-04 अप्रैल, 2024 आयोजित।
2. श्यामकांत एस. तलमले. 2024. "संरक्षित क्षेत्र से पशु प्रजातियों की पहचान और संरक्षण में उल्लू की भूमिका" इन: राष्ट्रीय संयुक्त राजभाषा वैज्ञानिक संगोष्ठी-2024, राष्ट्रीय संयुक्त राजभाषा वैज्ञानिक संगोष्ठी-2024, आधारकर अनुसंधान संस्थान (ARI), सीएसआईआर - राष्ट्रीय रासायनिक प्रयोगशाला (CSIR-NCL), राष्ट्रीय कोशिका विज्ञान केन्द्र (NCCS) और भारतीय उष्णदेशीय मौसम विज्ञान संस्थान (IITM) द्वारा संयुक्त रूप से दिनांक 03-04 अप्रैल, 2024 आयोजित।

12

Digital Sequence Information



ZSI enriched the DNA barcode database and resolved several taxonomic queries during the reporting period. A total of 2,917 barcodes were generated, covering 707 species.



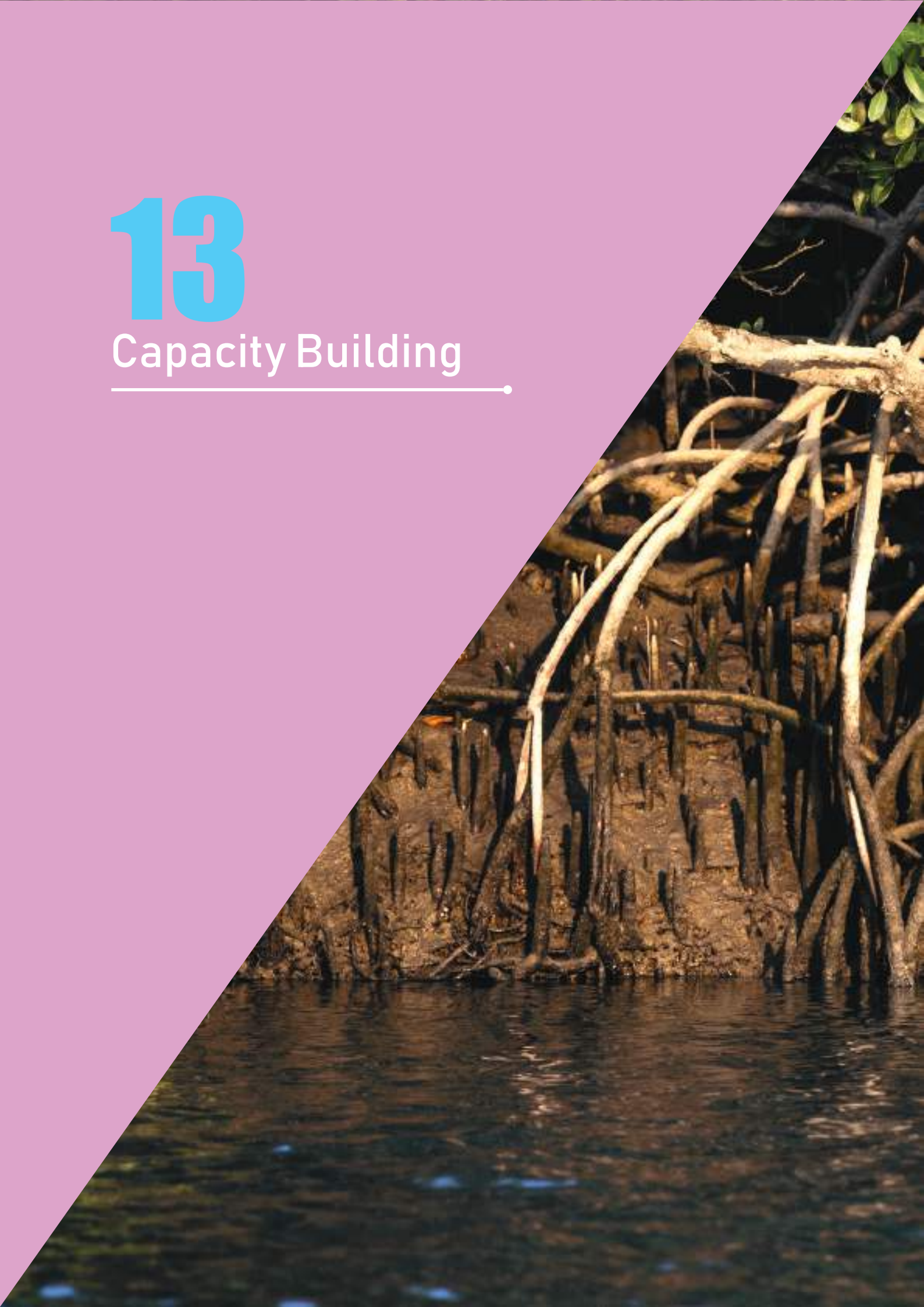
Summary of Digital Sequence Data Generated during the Year 2024–2025

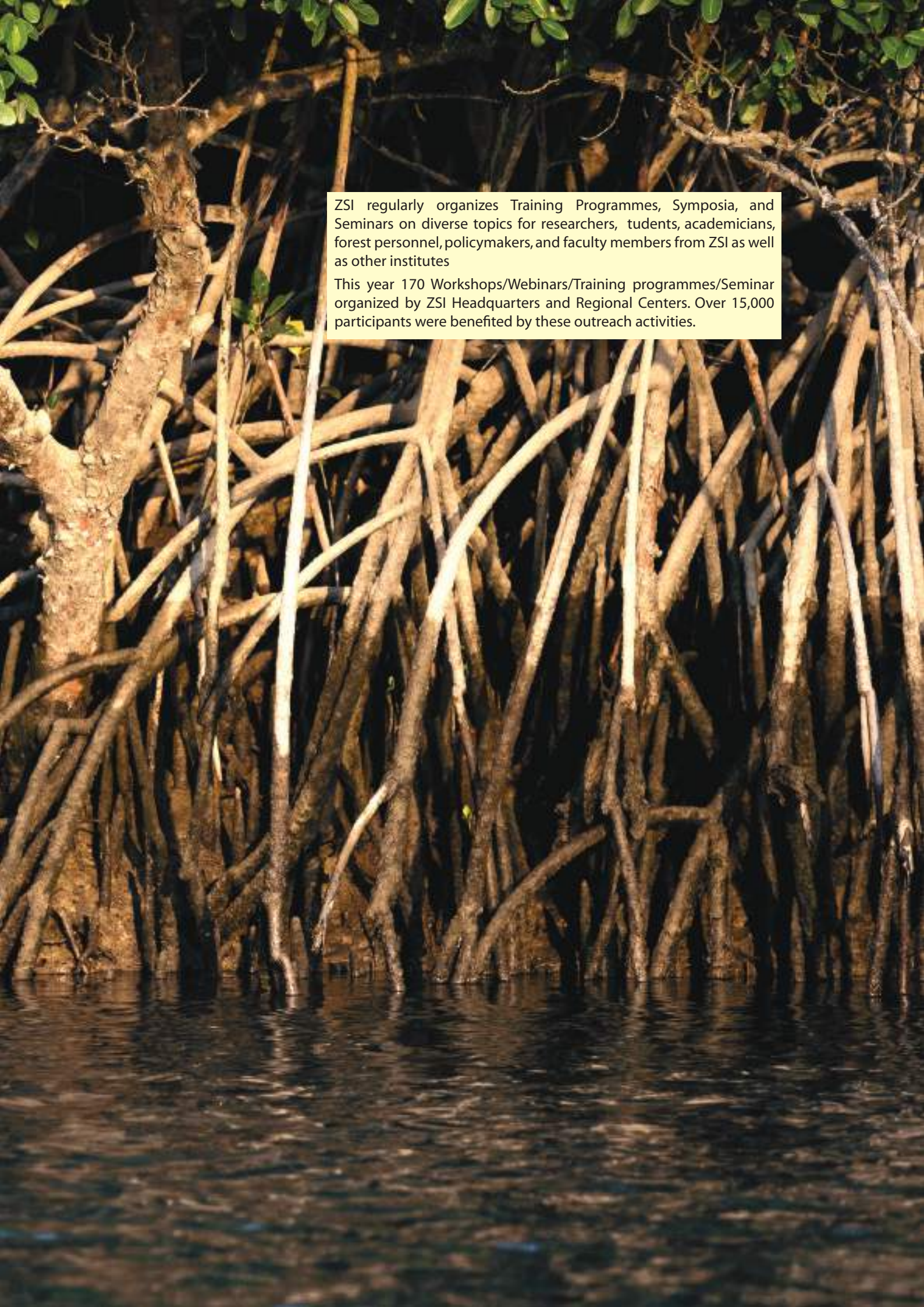
Group	No. of species	Barcode Generated
Tardigrada	3	11
AlphaproteoBacteria	2	7
Cnidaria	6	7
Annelida	11	18
Hymenoptera	23	87
Hemiptera	30	43
Diptera	53	132
Thysanoptera	54	1180
Coleoptera	2	2
Lepidoptera	87	223
Odonata	7	39
Blattodea	40	90
Malacostraca	7	9
Psocomorpha	1	1
Mollusca	40	92
Echinodermata	2	2
Pisces	201	436
Amphibia	44	172
Reptilia	18	74
Aves	21	38
Mammalia	55	254
Total	707	2917



13

Capacity Building



A photograph of a mangrove forest with a dense network of prop roots extending from the water. A yellow text box is overlaid on the upper left portion of the image.

ZSI regularly organizes Training Programmes, Symposia, and Seminars on diverse topics for researchers, students, academicians, forest personnel, policymakers, and faculty members from ZSI as well as other institutes

This year 170 Workshops/Webinars/Training programmes/Seminar organized by ZSI Headquarters and Regional Centers. Over 15,000 participants were benefited by these outreach activities.

Trainings organized during 2024-25

Sl. No.	Title	Date/Period	Organized by
1.	DST SERB High End Karyashala: Hands on Training on Coral and Coral associated faunal communities: Taxonomy and Monitoring	15.04.2024 - 23.04.2024	ZSI, Kolkata, Mollusca Section
2.	Animal Taxonomy Summit 2024	01.07.2024-03.07.2024	ZSI, Kolkata
3.	एक दिवसीय कार्यशाला on "संघीय कार्य के सन्दर्भ में राजभाषा प्रयोग के प्रसार की दशा एवं दिशा" on 23.08.2024 in presence of invitees from Railways and TFRl, Jabalpur.	23.08.2024	भारतीय प्राणि सर्वेक्षण के मध्य क्षेत्र प्रादेशिक केंद्र, जबलपुर (म.प्र.)
4.	पाँच दिवसीय हिन्दी संक्षिप्त प्रशिक्षण कार्यक्रम	10.06.2024 - 14.06.2024	भारतीय प्राणि सर्वेक्षण के मध्य क्षेत्र प्रादेशिक केंद्र, जबलपुर (म.प्र.), केन्द्रीय अनुवाद ब्यूरो, गृह मंत्रालय, नई दिल्ली एवं नगर कार्यान्वयन समिति कार्यालय-02 जबलपुर कार्यालय के समस्थ अधिकारियों एवं कर्मचारियों ने प्रशिक्षण प्राप्त किया
5.	वन्य प्राणी सप्ताह-2024 के अंतर्गत दो दिवसीय राष्ट्रीय सम्मेलन का आयोजन किया गया ।	07.10.2024	भारतीय प्राणि सर्वेक्षण के मध्य क्षेत्र प्रादेशिक केंद्र, जबलपुर (म.प्र.)
6.	एक दिवसीय राजभाषा कार्यशाला on 'संघ की राजभाषा नीति' and a lecture on केन्द्रीय सरकारी कार्यालय में राजभाषा हिंदी का सरल प्रयोग-प्रसार.	07.02.2025	भारतीय प्राणि सर्वेक्षण के मध्य क्षेत्र प्रादेशिक केंद्र, जबलपुर (म.प्र.)
7.	One Day Workshop on छत्तीसगढ़ के आदिवासी क्षेत्र में जन जैव विविधता रजिस्टर के लिए प्रशिक्षकों का प्रशिक्षण-पायलट कार्यक्रम	23.02.2025	भारतीय प्राणि सर्वेक्षण के मध्य क्षेत्र प्रादेशिक केंद्र, जबलपुर (म.प्र.)
8.	हिन्दी कार्यशाला का आयोजन	25.06.2024	भारतीय प्राणी सर्वेक्षण, देहरादून
9.	संविधान दिवस प्रश्नावली कार्यशाला	26.11.2024	भारतीय प्राणी सर्वेक्षण, देहरादून
10.	हिन्दी कार्यशाला का आयोजन	26.03.2025	भारतीय प्राणी सर्वेक्षण, देहरादून
11.	हिन्दी राजभाषा कार्यशाला	18.06.2024	भारतीय प्राणी सर्वेक्षण, पश्चिमी प्रादेशिक केंद्र, पुणे
12.	कार्यस्थल पर यौन उत्पीड़न अधिकार और कानूनी विकल्प" विषय पर एक दिवसीय कार्यशाला	19.03.2025	भारतीय प्राणी सर्वेक्षण, पश्चिमी प्रादेशिक केंद्र, पुणे
13.	"Hindi Karyashala" for development of Raj Bhasha Hindi- lecture delivered by Prof (Dr) Baldev Thakur (Retd), Government PG College, Shimla.	03.05.2024	HARC, ZSI, Solan
14.	"Hindi Karyashala"- lecture delivered on use of Hindi in offices by Prof (Dr) Baldev Thakur (Retd), Government PG College, Shimla.	12.09.2024	HARC, ZSI, Solan
15.	National Conference on Invasive Alien Species: Threats and Challenges	25.03.2025-26.03.2025	ZSI, Kolkata, Training & Extension Division
16.	Seminar on "Wolves of West Bengal" at Russel Street, Kolkata	23.08.2024	ZSI, Kolkata, Amphibia & Protochordata Section

Sl. No.	Title	Date/Period	Organized by
17.	Training programme on Collection, preservation, and maintenance of zoological specimens.	04.03.2024 - 24.03.2024	CZRC, ZSI, Jabalpur & Govt. Home Science College, Jabalpur
18.	Marine Biodiversity and Conservation	13.07.2024	MARC, ZSI, Digha
19.	Ornamental fish management in public aquariums	02.09.2024	MARC, ZSI, Digha
20.	Conservation and monitoring of threatened mammals of Indian Himalayas	22.08.2024	NERC, ZSI, Shillong
21.	A seminar on "Lesser-Known Wildlife of Sahyadri- Frogs and Butterflies"	04.10.2025	WRC, ZSI, Pune.
22.	National Symposium on "The Western Ghats: Biodiversity Conservation and Ecosystem Management"	06.03.2025 - 07.03.2025	SRC, ZSI, Chennai & Kongunadu Arts and Science College, Coimbatore
23.	Training programme on Status and conservation of Wildlife in India	07.10.2024	NRC, ZSI, Dehradun
24.	e-Office Training	13.09.2024	ZSI, Kolkata & IT Department, MoEFCC, New Delhi
25.	Brachyuran Crab Taxonomy	28.08.2024 - 05.09.2024	ZSI, Kolkata
26.	Red Listing training as per IUCN guidelines at BSI, CNH Building, Kolkata		ZSI, Kolkata, BSI, Kolkata & MoEFCC
27.	2nd Sahbhagita workshop on "Conservation and Wise Use of Wetlands"	29.08.2024 - 30.08.2024	ZSI, Kolkata & MoEFCC
28.	Wildlife Protection Act Schedule Workshop	April, 2024	ZSI, Kolkata, Amphibia & Protochordata Section
29.	Workshop on Camera Trap & CCTV at Durgapur, West Bengal	13.07.2024	ZSI, Kolkata, Amphibia & Protochordata Section
30.	Multivariate analyses for Biodiversity data	17.09.2024 - 20.09.2024	ZSI, Kolkata, GNC section
31.	DNA barcoding of insects under the supervision of Dr. Vikas Kumar	30.05.2024 - 10.06.2024	ZSI, Kolkata, CDT, MSD
32.	e-DNA, soil analysis under the supervision of Dr. Inderjeet Tyagi	30.05.2024 - 28.06.2024	ZSI, Kolkata, CDT, MSD
33.	Metasystematics (Bioinformatics) under the supervision of Dr. Kaomud Tyagi	30.05.2024 - 28.06.2024	ZSI, Kolkata, CDT, MSD
34.	Summer training on "Integrative taxonomy of dipteran flies"	01.05.2024 - 31.07.2024	ZSI, Kolkata, Diptera Section
35.	physical verification database development of types and other determined species of aphids donated from the Calcutta University.		ZSI, Kolkata, Hemiptera Section
36.	Hands on Training on Basic Termite Taxonomy	06.05.2024 - 08.05.2024.	ZSI, Kolkata, Isoptera Section

Sl. No.	Title	Date/Period	Organized by
37.	Hands on Training on Basic Termite Taxonomy	07.01.2025-10.01.2025	ZSI, Kolkata, Isoptera Section
38.	Faunal Collection, Preservation and Identification of Aquatic insects.	18.08.2024	ZSI, Kolkata, MIO Section
39.	5-days skill development training for the senior zoological assistants of the organisation on modern tools and technologies i.e. DNA Barcoding, GIS tools and Forensic studies	27.01.2025-01.02.2025	ZSI, Kolkata, Training & Extension Division
40.	Training on collection, preservation and identification of zoological specimens	02.09.2024 - 06.09.2024	ZSI, Kolkata, Training & Extension Division,
41.	Hand-on workshop on DNA Barcoding of Animals & Plants; in Jain University under the symposium on Wildlife Forensics - Crime, Conservation & Prevention 2025	23.01.2025	ZSI, Kolkata, Wildlife Section & JAIN (Deemed to be University), Bangalore.
42.	Organised three day training workshop on Coastal and Marine Biodiversity of Island Ecosystem under the Training of Other Stakeholders	21.11.2024-23.11.2024	ANRC, ZSI, Port Blair & MoEFCC
43.	Organised three day training workshop on Coastal and Marine Biodiversity of Island Ecosystem under the Training of Other Services	19.12.2024-21.12.2024	ANRC, ZSI, Port Blair & MoEFCC
44.	Organized one day Workshop on the Island Biodiversity and museum visit to the students of Government Middle School, Haddo	04.01.2025	ANRC, ZSI, Port Blair & MoEFCC
45.	Training course for identification and taxonomy of Grasshoppers to Miss Kh. Nandita Devi of DM College of Science, Imphal, under the guidance of Dr. G. Srinivasan, Scientist – E.	21.08.2024 – 30.08.2024	APRC, ZSI, Itanagar
46.	Two days training program on Wildlife Conservation Sciences	25.07.2024 - 26.07.2024	APRC, ZSI, Itanagar in collaboration with Wildlife Conservation Network (WCN)
47.	4 days Animal Taxonomy training programme for BSc Forestry, NERIST, Nirjuli and JIGYASA University, Dehradun	21.10.2024-24.10.2024	APRC, ZSI, Itanagar
48.	One Day Workshop on “Workplace sexual harassment of women (PoSH)”	12.07.2024	CZRC, ZSI, Jabalpur
49.	Five days Workshop on Taxonomy, Preservation, Museology and Basic Geospatial Technology	20.01.2025-24.01.2025	CZRC, ZSI, Jabalpur & Government Science College, Autonomous, Jabalpur (M.P.)
50.	One day field training program of fossils site identification and collection techniques	12.02.2025	CZRC, ZSI & GSI

Sl. No.	Title	Date/Period	Organized by
51.	Five days' workshop under the MoU program on Wildlife Conservation Finance Investing in people and Plan.	28.02.2025-05.03.2025	CZRC, ZSI, Jabalpur & Vikram University Ujjain (M.P.)
52.	Hands on training Workshop on "COLLECTION, PRESERVATION & IDENTIFICATION OF INSECTS"	27.05.2024 - 31.05.2024	CZRC, ZSI, Jabalpur
53.	Two days training programme on "CORS & Open-Source GIS Software"	26.11.2024-27.11.2024	CZRC, ZSI, Jabalpur & Directorate of Geospatial, Survey of India, Jabalpur
54.	One day training program on "Basic tools and techniques for fossil collection and preservation"	28.11.2024	CZRC, ZSI, Jabalpur & Geological survey of India, Jabalpur
55.	One day workshop on Fossils of upper valley of Narmada River	15.01.2025	CZRC, ZSI, Jabalpur & Department of Geology, Government Science College, Autonomous, Jabalpur (M.P.)
56.	Three Days Workshop on Collection, preservation and Identification of insects at Lucknow (U.P.).	16.02.2025-18.02.2025	CZRC, ZSI, Jabalpur & Society of biological sciences and rural development Parayagraj
57.	IUCN Red List Assessor Training Workshop	26.08.2024 - 30.08.2024	DRC, ZSI, Jodhpur
58.	Training on Trichoptera Taxonomy	02.05.2024-02.06.2024	HARC, ZSI, Solan
59.	One day training programme for "collection and preservation of butterflies and on their taxonomy" was organized for graduate students of Government Degree College, Solan.	27.09.2024	HARC, ZSI, Solan
60.	Dr. P. C. Pathania, Scientist-E deliver an Invited talk on the topic, "Role of Bio-pesticides in Management of Insect-pest of North-Western Himalayas" in the three days training programme titled, "Application of Bio-fertilizers & Bio-pesticides in forestry practices"	27.09.2025	HARC, ZSI, Solan & ICFRE-Himalayan Forest Research Institute, Shimla, HP.
61.	Micromoths (Microlepidoptera) collection, pinning, stretching, preservation, and identification	18.11.2024-22.11.2024	HARC, ZSI, Solan
62.	"DNA barcoding and Molecular characterisation of insect pests"	21.11.2024	HARC, ZSI, Solan & HFRI, Shimla
63.	Training on 'Collection handling preservation including Stretching and pinning of Insect orders' under one week training programme on 'Insect Pest Collection, handling, preservation and biological control	21.11.2024	HARC, ZSI, Solan & ICFRE-HFRI, Shimla, HP

Sl. No.	Title	Date/Period	Organized by
64.	Training cum workshop on marine fauna collection, preservation, identification techniques, and biodiversity conservation in the Digha and adjacent areas	18.03.2025	MARC, ZSI, Digha
65.	Amphibian identification	15.05.2024 - 16.05.2024	NERC, ZSI, Shillong
66.	Applied workshop on Climate Vulnerability Assessment of fishes in Northeast India	24.06.2024 - 28.06.2024	NERC, ZSI, Shillong & GIZ
67.	Identification techniques of frogs	19.07.2024	NERC, ZSI, Shillong
68.	Hands on training on specimen-based identification and field capture methods of bats.	15.10.2024 - 18.10.2024	NERC, ZSI, Shillong
69.	Hands on training on Basics of bat taxonomy and echolocation call analysis.	17.02.2025 - 19.02.2025	NERC, ZSI, Shillong
70.	Identification techniques of frogs	18.02.2025	NERC, ZSI, Shillong
71.	Training programme on Himalaya and Wildlife	06.09.2024	NRC, ZSI, Dehradun in collaboration with UCOST, Government of Uttarakhand and HESCO
72.	Training Programme on Protected Animals of India	11.06.2024	NRC, ZSI, Dehradun
73.	Training programme on Status of Faunal Diversity in India	05.09.2024	NRC, ZSI, Dehradun
74.	Training programme on Faunal Diversity in India	27.11.2024	NRC, ZSI, Dehradun
75.	Training programme on Faunal Diversity and efforts on their Conservation in India	18.12.2024	NRC, ZSI, Dehradun
76.	Workshop organized on Status of Faunal Diversity and efforts on their Conservation in India	10.01.2025	NRC, ZSI, Dehradun
77.	Hands on Training Programme and Field visit organized on Study of Wetland Waterbirds and counting of Migratory Waterbirds at Asan Conservation Reserve and Ramsar Site, Uttarakhand	15.01.2025	NRC, ZSI, Dehradun
78.	Training programme on Study of Wetland Waterbirds and counting of Migratory Waterbirds species	04.02.2025	NRC, ZSI, Dehradun
79.	Entomology	28.08.2024 - 30.08.2024	WGRC, ZSI for the M.Sc. Applied Zoology students of the University of Calicut as part of the MoU between ZSI & University of Calicut
80.	Interactive session	17.09.2024	WGRC, ZSI for the students of the Gifted Children Programme of Thamarassery Educational District, Kozhikode.

Sl. No.	Title	Date/Period	Organized by
81.	Introduction to Taxonomy	29.04.2024 - 03.05.2024	WGRC, ZSI for the M.Sc. Zoology Students of Sacred Heart College Chalakudy and Malabar Christian College, Kozhikode
82.	Taxonomic Procedures	29.04.2024 - 17.05.2024	WGRC, ZSI for the M.Sc. Zoology Students of Loyola College, Chennai
83.	Taxonomic Procedures	14.10.2024 - 18.10.2024	WGRC, ZSI for the PhD scholars
84.	Workshop-cum-Field Trial on "First time tagging of horseshoe crab, a living fossil"	18.08.2024	WRC, ZSI, Pune
85.	Workshop on topic "Methods in Collection, Preservation and Identification of Fauna"	21.03.2025	WRC, ZSI, Pune in Collaboration with Shri Shivaji Science College, Amravati
86.	Hands on training programs on "Mosquito identification, DNA barcoding (Taxonomy), and Mosquito surveillance"	08.07.2024 - 13.07.2024	EBRC, ZSI, Gopalpur-on-sea
87.	One- day Hands on Taxonomy of estuarine and coastal fauna.	17.02.2025	EBRC, ZSI, Gopalpur-on-sea
88.	PBR and biodiversity conservation (Trained 50 tribal BMC members)	03.02.2025 - 06.02.2025	SRC, ZSI, EIACP (Fauna), ZSI & SACON
89.	Internship Training Programme conducted for MSc. Students.	16.05.2024 - 31.05.2024	SRC, ZSI, Chennai
90.	Summer Internship	03.06.2024 - 07.06.2024	MBRC, ZSI, Chennai
91.	A Capacity building workshop on "Building Entrusted Networks and Strengthening Law Enforcement with a Prime Focus on Safeguarding Pangolins" at University of Ghana and Ghana Wildlife Society, Accra, Ghana, West Africa	01.11.2024 - 09.11.2024	ZSI, Kolkata, Mammal & Osteology Section.
92.	A Capacity building Workshop on Wildlife Forensic Genetics with Prime Focus on Pangolins conducted during National Conference on Wildlife Forensics organized by National Forensic Sciences University (NFSU), Goa Campus, India	16.11.2024 - 17.11.2024	ZSI, Kolkata, Mammal & Osteology Section.
93.	Capacity Building Programme on Socio-Economically Important Insects for Improving Livelihood	24.09.2024 - 26.09.2024	ZSI, Kolkata, Training & Extension Division
94.	Basic idea of Diptera and their collection, preservation and pinning techniques.	02.07.2024	ZSI, Kolkata, Diptera Section
95.	Introductory overview of the insect order Diptera and its collection methods.	17.12.2024	ZSI, Kolkata, Diptera Section
96.	One day museum visit and seminar for the students of Sagritara School, Port Blair	29.08.2024	ANRC, ZSI, Sri Vijaya Puram

Sl. No.	Title	Date/Period	Organized by
97.	Propellant strategies for quality life: Mitigating Climate Change and preserving Biodiversity as a part of Quality Improvement Programme in the Manakula Vinayagar Medical College and Hospital; & Manakula Vinayagar Institute of Technology, Puducherry	09.08.2024	ANRC, ZSI, Sri Vijaya Puram
98.	Seminar on Biodiversity and sustainable development of Tourism	27.09.2024	ANRC, ZSI, Sri Vijaya Puram in collaboration with AATO.
99.	Delivered a talk on An Overview of Biodiversity of Andaman and Nicobar Islands in the one day seminar organised by SSM College of Arts & Science, Dindukkal, Tamil Nadu	13.07.2024	ANRC, ZSI, Sri Vijaya Puram & SSM College of Arts & Science, Dindukkal, Tamil Nadu
100.	Organised workshop on the Capacity Building Programme to the school students at PM Shri Jawahar Navodaya Vidyalaya, Panchavati, Rangat, North & Middle Andaman District	16.10.2024	ANRC, ZSI, Sri Vijaya Puram
101.	Organised workshop on the Capacity Building Programme to the students of Mahatma Gandhi Government College, Mayabunder, North & Middle Andaman District	18.10.2024	ANRC, ZSI, Sri Vijaya Puram
102.	Organised workshop on the Capacity Building Programme to the frontline staff of the Department of Environment and Forests; PRI Members of North & Middle Andaman Districts	18.10.2024	ANRC, ZSI, Sri Vijaya Puram
103.	Organised one week compulsory training course of the Indian Forest Service Officers on Coastal and Marine Biodiversity of Island Ecosystem	11.11.2024-15.11.2024	ANRC, ZSI, Sri Vijaya Puram & MoEFCC
104.	Organised one week compulsory training course of the Indian Forest Service Officers on Natural Resource Management and Conflict Resolution Skills for Forest Management held at Sunderbans, West Bengal	09.12.2024-13.12.2024	ANRC, ZSI, Sri Vijaya Puram & MoEFCC
105.	Organized museum visit for on NCC cadets	16.01.2025	ANRC, ZSI, Sri Vijaya Puram
106.	Organized workshop cum museum exhibition for the students of Jawahar Navodaya Vidyalaya, Arong, Car Nicobar	25.01.2025	ANRC, ZSI, Sri Vijaya Puram
107.	Organized Capacity Building workshop on Andaman & Nicobar's fauna and sustainable business for students and faculties of Andaman College from diverse backgrounds	28.01.2025	ANRC, ZSI, Sri Vijaya Puram

Sl. No.	Title	Date/Period	Organized by
108.	Organised two-day Science Academic Lecture Workshop on Recent advances of biodiversity of Andaman and Nicobar Islands	27.02.2025-28.02.2025	ANRC, ZSI, Sri Vijaya Puram, Indian Academy of Sciences in Bengaluru; the Indian National Science Academy in New Delhi; The National Academy of Sciences in Prayagraj, India
109.	Organised Asian Waterbird Census (AWC) 2025	01.02.2025-05.02.2025; 07.02.2025-10.02.2025	ANRC, ZSI, Sri Vijaya Puram
110.	Brainstorming Session on Identifying the Key Issues and Challenges on Environmental Aspects for North-Eastern region of India	10.09.2024	APRC, ZSI, Itanagar in collaboration with G.B. Pant National Institute of Himalayan Environment, North-East Regional Centre & Botanical Survey of India, Arunachal Pradesh Regional Centre
111.	3 days Pilot Capacity Building Programme for BMC Members of Arunachal Pradesh	05.03.2025-07.03.2025	APRC, ZSI, Itanagar & EIACP Centre, ZSI-Kolkata
112.	CZRC, ZSI, Jabalpur participated and exhibited specimens and posters at First Mahakaushal Vigyaan Mela and Arogya expo-2024.	16.11.2024-18.11.2024	CZRC, ZSI, Jabalpur
113.	Forest Range Officer trainees from Odisha under their Training Programme tour	08.01.2025	CZRC, ZSI, Jabalpur
114.	Two days National Conference	28.03.2025-29.03.2025	CZRC, ZSI, Jabalpur, Atal Bihari Vajpayi Vishwavidyalaya, Bilaspur (C.G.) and Vigyaanbharti Mahakaushal Pranth
115.	Ek ped make Naam	01.08.2024 - 14.09.2024	DRC, ZSI, Jodhpur
116.	Mission LiFE (LiFE means Lifestyle for Environment) under the theme Healthy Life Style	14.06.2024	DRC, ZSI, Jodhpur
117.	Museum Visitors from Universities, Colleges, Schools and other etc.	April to September, 2024	DRC, ZSI, Jodhpur
118.	Swachhata Hi Seva (SHS)	14.09.2024 - 02.10.2024	DRC, ZSI, Jodhpur
119.	Training programme organized for the under graduate and post graduate students of different colleges of Patna on the theme "Cleanliness and reduction of waste"	17.09.2024.	GPRC, ZSI, Patna
120.	Exhibition on the faunal diversity of the wetlands of River Ganga, at Parvati Arga WLS, Gonda district, Uttar Pradesh	27.09.2024	GPRC, ZSI, Patna, MoEF&CC & Parvati Arga WLS, Gonda district, Uttar Pradesh

Sl. No.	Title	Date/Period	Organized by
121.	Dr.P.C.Pathania, Scientist-E delivered invited talk & provide training on the topic entitled, "Field collection and Preservation of Insects" for PG students/teachers of Department of Biosciences, Chandigarh University, Chandigarh Ludhiana Highway, Gharuan, Punjab	05.04.2024	HARC, ZSI, Solan & Department of Biosciences, Chandigarh University
122.	Dr Kamal Saini, Scientist-B acted as resource person and delivered an invited talk online on 'Himalayan Biodiversity' in One Day National Seminar on "Opportunities & Challenges in Agriculture, Environmental & Biological Sciences for Global Sustainable Development", sponsored by DHE, Haryana and organized by the GMN College, Ambala.	09.04.2024	HARC, ZSI, Solan & GMN College, Ambala
123.	Mission LiFE Programme	May-24	HARC, ZSI, Solan
124.	Dr. Avtar Kaur Sidhu gave lecture on "Conservation and protection of Himalayan fauna" and Dr, Kamal Saini gave lecture on "Mission Life" during the visit of Indian army officers and Jawans of 14th Gorkha Training Centre Subathu along with students of Class 5th to Class 10+2 of Western Command Children Summer Adventure Camp.	13.06.2024	HARC, ZSI, solan
125.	Dr.P.C.Pathania, Scientist-E, delivered Lecture as Resource Person in the online Seven days Faculty Development Programme (FDP) on Climate Change:	17.07.2025	HARC, ZSI, solan & IQAC, Desh Bhagat University, Mandi
126.	Training to all employees of NARAKAS of Solan on online filling of Hindi reports-gave by Sh. Harpareet Singh, Senior Branch Manager of National Insurance Company Limited in "Hindi Workshop"-organized at HARC, ZSI Solan for the NARAKAS members of District. Solan.	18.07.2024	HARC, ZSI, Solan
127.	Dr. Avtar Kaur Sidhu, Scientist-F, acted as external examiner and evaluated the M. Sc. Zoology Thesis on the topic "Efficacy of Titanium Dioxide Nanoparticles Against the Larvae of Fruit Fly" of Akal College of Basic Sciences, Eternal University, Baru Sahib, District Sirmour, HP.	05.08.2024	HARC, ZSI, Solan & Akal College of Basic Sciences, Eternal University, Baru Sahib, District Sirmour, HP.
128.	Under the leadership of Dr. Avtar Kaur Sidhu, Scientist-F on the survey tour, as a part of SHS 2024 campaign, the HARC, ZSI, Solan	17.09.2024	HARC, ZSI, Solan & Government High School, Gopalpur, District Kangra, Himachal Pradesh.
129.	Dr. Avtar Kaur Sidhu, Scientist-F, acted as examiner to take viva voce examination of Ph.D. student.	27.11.2024	HARC, ZSI, Solan & Department of Zoology, Shoolni University, Solan

Sl. No.	Title	Date/Period	Organized by
130.	Dr. Avtar Kaur Sidhu, Scientist-F, acted as external subject expert for the interviews of Associate Professor (Zoology and Biotechnology)	21.12.2024	HARC, ZSI, Solan & Eternal University, Baru Sahib, District Sirmour (HP).
131.	Dr. Avtar Kaur Sidhu, Scientist-F, acted as examiner for Ph.D. thesis and submitted the evaluation report on and taken viva voce examination.	03.03.2025 - 10.03.2025	HARC, ZSI, Solan & Department of Zoology, Shoolni University, Solan (HP)
132.	Dr. Avtar Kaur Sidhu, Scientist-F, gave a lecture on women empowerment: need of the day	13.03.2025	HARC, ZSI, Solan & Dev Samaj College, Ferozpur (Punjab)
133.	Dr. Avtar Kaur Sidhu, Scientist-F, acted as resource person and delivered an invited talk on topic, "Conserving Butterflies in Urban Landscape" in National Seminar on Environment and Biodiversity: Issues & Challenges	20.03.2025	HARC, ZSI, Solan & Department of Biosciences Himachal Pradesh University
134.	Dr. Avtar Kaur Sidhu, Scientist-F, acted as examiner to take viva voce examination of Ph.D. student.	27.11.2024	HARC, ZSI, Solan & ICFRE-Himalayan Forest Research Institute, Shimla, HP.
135.	Marine and Coastal Biodiversity and Conservation	27.01.2025	MARC, ZSI, Digha
136.	Collections, preservation and identification of Marine Fauna	23.01.2025	MARC, ZSI, Digha
137.	Techniques in Sampling, Preserving Marine Fauna, and Managing Public Aquariums	16.01.2025	MARC, ZSI, Digha
138.	Swachchhata Hi Seva competition organized at Garkhali Deshkalyan Abaitanik Prathamik Vidyalaya School, Bandhumahal Club	17.09.2024, 20.09.2024, 27.09.2024	SbRC, ZSI, Canning
139.	Museum visitors from Universities, Colleges, Schools, etc.	April to September, 2024	SbRC, ZSI, Canning
140.	Biodiversity conservation and wildlife crime control.	08.01.2025	SRC, ZSI, Chennai & WCCB, Chennai
141.	Capacity Building Training Workshop on Methods in Faunal Collection, Preservation and Identification	12.08.2024 - 17.08.2024	WRC, ZSI, Pune
142.	Capacity Building On-field Training Workshop on "Biodiversity Studies"	06.02.2025 - 07.02.2025	WRC, ZSI, Pune in collab. With Department of Zoology, Shivaji University, Kolhapur
143.	A lecture Workshop and Faunal Diversity Survey of Mangalagangothri Campus	17.12.2024 - 23.12.2024	WGRC, ZSI in collab with Department of Zoology, Mangalore University

Sl. No.	Title	Date/Period	Organized by
144.	One day seminar as a part of celebration of the World Environment Day on the theme of the year was organised for the School/ College students, teachers and researches of this islands and mainland through online mode	31.05.2024	ANRC, ZSI, Sri Vijaya Puram
145.	One day seminar on the theme of the World Ozone Day organised through online mode	14.09.2024	ANRC, ZSI, Sri Vijaya Puram
146.	Organized Faunal exhibition and Museum visit as part of celebration of National Bird Day	06.01.2025	ANRC, ZSI, Sri Vijaya Puram
147.	Organized Bird watching as part of celebration of World Wetland Day	02.02.2025	ANRC, ZSI, Sri Vijaya Puram
148.	Organised one day workshop on Island Ecosystem: Forests, Wildlife & Agroforestry, as a part of celebration of International Day of Forests	21.03.2025	ANRC, ZSI, Sri Vijaya Puram
149.	Organised one day workshop as a part of celebration of International Women's Day 2025	08.03.2025	ANRC, ZSI, Sri Vijaya Puram
150.	One day Workshop on World Environment Day-2024.	05.06.2024	CZRC, ZSI, Jabalpur
151.	Mangrove Day Program at ZSI, SbRC	26.07.2024	SbRC, ZSI, Canning
152.	Overview of biodiversity of A&N Islands, Mahatma Gandhi Govt.College,Mayabunder	18.10.2024	ANRC, ZSI, Sri Vijaya Puram
153.	Overview of biodiversity of A&N Islands, Dept. of Environment & Forests with PRI members of N & Middle Andaman	18.10.2024	ANRC, ZSI, Sri Vijaya Puram
154.	Overview of Coastal and Marine biodiversity of island ecosystem, Human-Animal Interactions, Overview of mangroves in A&N	19.12.2024 21.12.2024	ANRC, ZSI, Port Blair
155.	Hindi Awareness Workshop for staffs	30.12.2024	ANRC, ZSI, Sri Vijaya Puram
156.	Capacity Building Training on Island Biodiversity for Andaman College students.	28.01.2025	ANRC, ZSI, Sri Vijaya Puram
157.	Two-day Science Academics Lecture Workshop as part of celebration of Science Day	27.02.2025 28.02.2025	ANRC, ZSI, Port Blair
158.	One day seminar for the frontline staff of the Department of Environment and Forests; PRI Members of North & Middle Andaman	18.10.2024	ANRC, ZSI, Sri Vijaya Puram
159.	Faunal Exhibition	19.09.2024 & 08.03.2025	ANRC, ZSI, Sri Vijaya Puram

Sl. No.	Title	Date/Period	Organized by
160.	Exhibition on Island Faunal Diversity	05.10.2024-11.10.2024	ANRC, ZSI, Sri Vijaya Puram
161.	Diversity display	27.12.2024-31.12.2024	ANRC, ZSI, Sri Vijaya Puram
162.	Faunal exhibit for local publics and tourists	10.01.2025 & 17.01.2025	ANRC, ZSI, Sri Vijaya Puram
163.	Display of fauna of A & N Islands	27.02.2025 & 28.05.2025	ANRC, ZSI, Sri Vijaya Puram
164.	Faunal exhibition for the students of Govt. Sr. Sec. School Gupatapara, South Andaman	11.03.2025	ANRC, ZSI, Sri Vijaya Puram
165.	Faunal exhibition for the students of Govt. Sr. Sec. School Manpur, South Andaman	18.03.2025	ANRC, ZSI, Sri Vijaya Puram
166.	Indian Institute of Tourism and Travel Management (IITTM) Bhubaneswar	18.03.2025	ANRC, ZSI, Sri Vijaya Puram
167.	Faunal exhibition for the students of Govt. Middle School Manglutan, South Andaman	19.03.2025	ANRC, ZSI, Sri Vijaya Puram
168.	Faunal exhibition for the students of Govt. Middle School Austinabad South Andaman	21.03.2025	ANRC, ZSI, Sri Vijaya Puram
169.	Faunal exhibition for the students of Mahatma Gandhi International School, Port Blair	25.03.2025	ANRC, ZSI, Sri Vijaya Puram
170.	Faunal exhibition for the students of Govt. Sr. Sec. School line, South Andaman	27.03.2025	ANRC, ZSI, Sri Vijaya Puram

14

Memoranda of Understanding (MoUs) with National and International Institutes



During the reporting period, eleven MoUs were signed with reputed institutions and organizations, including universities and research institutes, to foster collaboration in future scientific research.



Sl. No.	Institute	Purpose	Date
1.	MoU between Zoological survey of India and ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswar, Odisha	Collaboration on various inter-disciplinary research.	01.04.2024
2.	MoU between Zoological survey of India and Berhampur University, Bhanja Bihar, Berhampur, Odisha	Scientific and Academic Cooperation	03.04.2024
3.	MoU between ZSI and ICAR-National Bureau of Agricultural Insect Resources (NBAIR), Hebbal, Bengaluru	Collaboration on various inter-disciplinary research.	11.04.2024
5.	MoU between Zoological survey of India and Birla Institute of Technology and Science, Pilani	Collaboration on various inter-disciplinary research.	30.06.2024
6.	MoU between Zoological survey of India and Himalayan University, Itanagar-Arunachal Pradesh	Scientific and Academic Cooperation	30.06.2024
8.	MoU between Zoological Survey of India and Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, Chhattisgarh.	Scientific and Academic Cooperation	30.8.2024
9.	MoU between Zoological Survey of India and Vivekananda Educational Institutions, Tiruchengode, Tamil Nadu	Scientific and Academic Cooperation	04.11.2024
10.	MoU between Zoological Survey of India and West Bengal State Electricity Distribution Company Limited (WBSEDCL)	Research collaboration	12.02.2025
11.	MoU between Zoological Survey of India and Birbal Sahani Institute of Palaeosciences (BSIP), Lucknow	Collaboration on various inter-disciplinary research.	14.02.2025



15

Library and
Publication Division

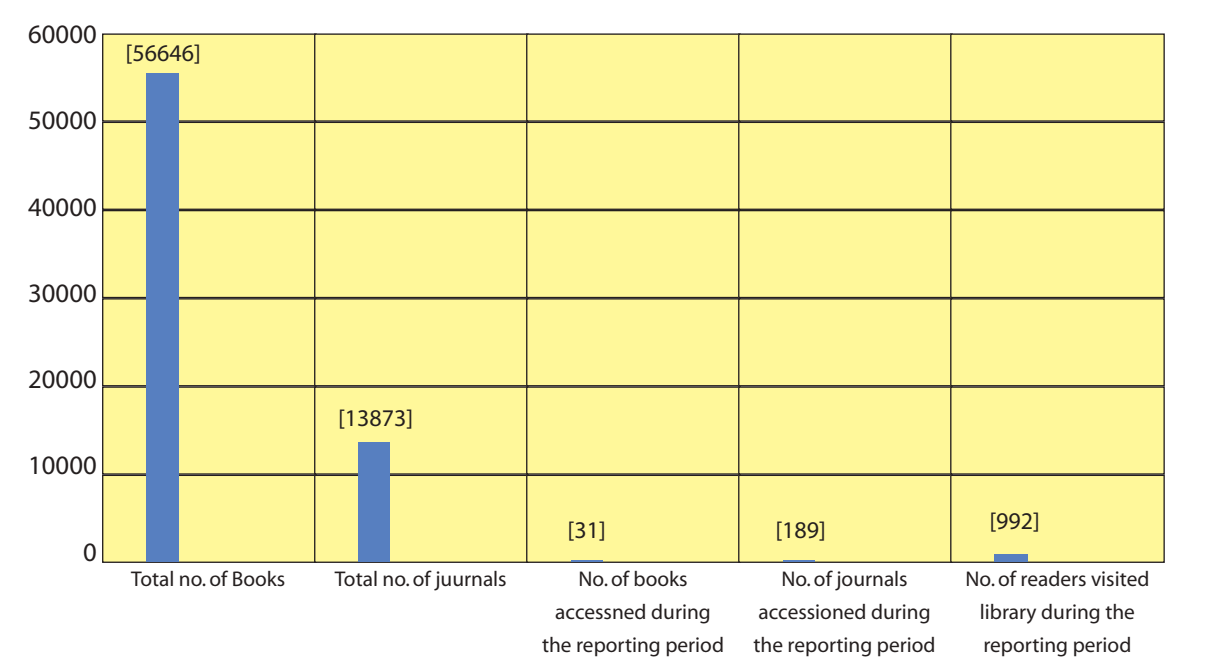




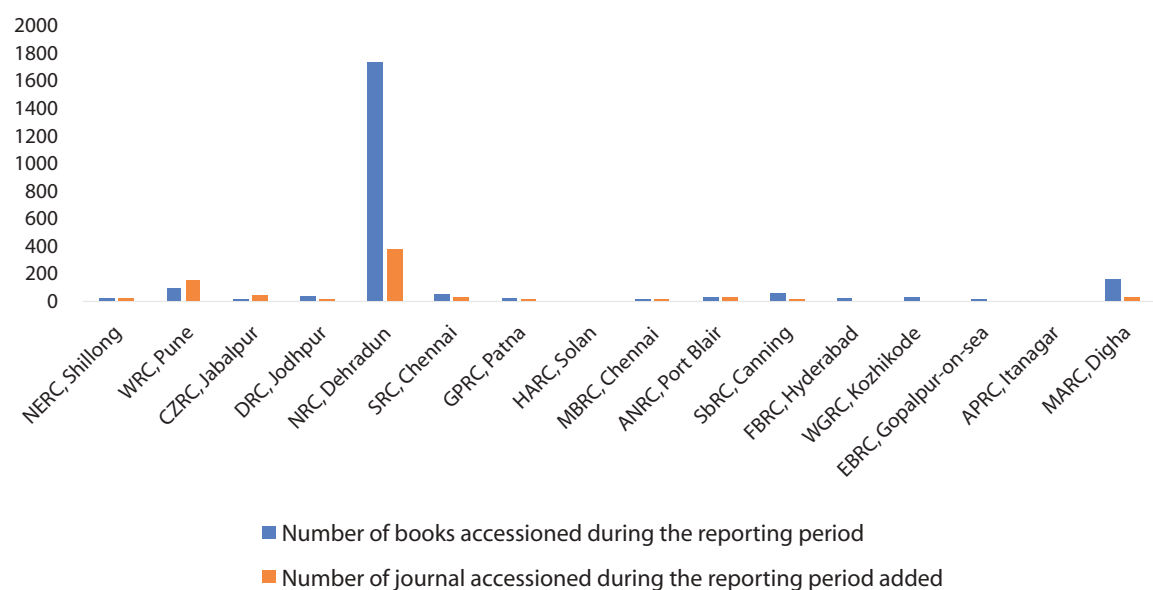
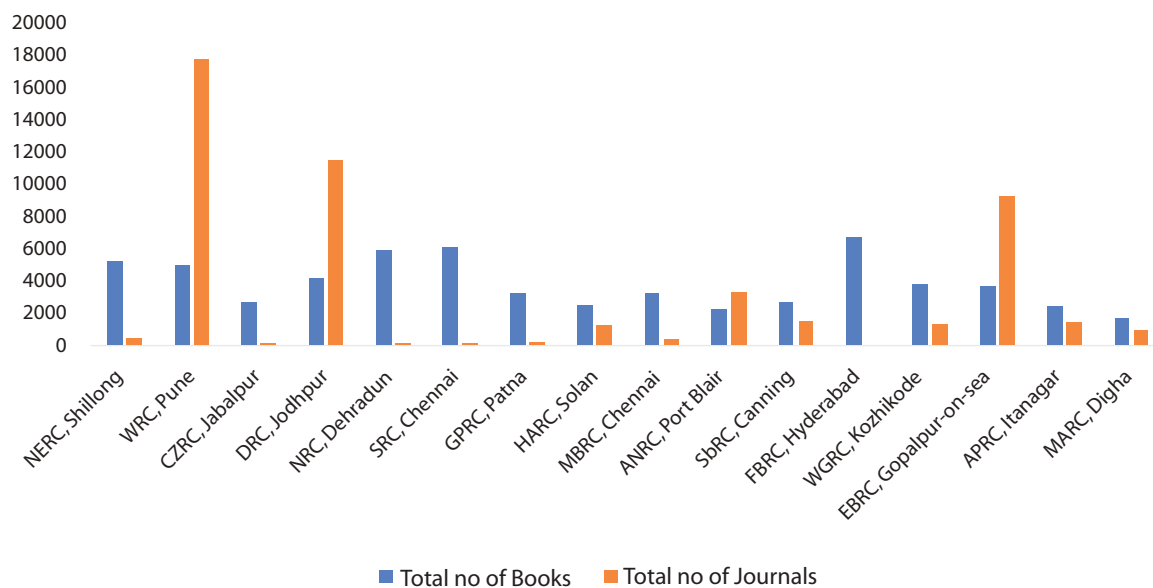
LIBRARY DIVISION

The Zoological Survey of India, a century-old organization, established its library on 1st July 1916 as an integral part of the institution. The library holds a significant collection in Zoology and allied subjects, including around 2,000 rare and important books dating back to the 17th and 18th centuries. During the year, approximately 500 rare books were renovated, and around 15,000 books and journals were maintained through classification, tagging, and cataloguing. Presently, the library houses 56,646 books and 13,873 bound volumes of journals, along with 189 current journal volumes, thereby enriching its repository with both rare and modern scientific literature

Total holding of Library of ZSI HQ, Kolkata



Total holdings of Libraries of Regional Centres of ZSI during 2024-25



PUBLICATION DIVISION

About the Publications of ZSI

The Publication Division of ZSI regularly publishes the research contributions of scientists from ZSI as well as from other institutes.

Records of the Zoological Survey of India

The Records of the Zoological Survey of India serves as a medium for zoological communications related to taxonomy, faunistics, biology, ecology, and population studies of different taxa, and functions as a leading journal of Indian Zoology. It is a quarterly publication that was first issued in 1907 from the Zoological Section of the Indian Museum under the title *Records of the Indian Museum*, primarily to publish the results of faunistic surveys conducted by scientists.

Details of books published:

❖ Occasional Paper:

1. Occasional Paper No. 417 – Ichthyofaunal diversity of Poma-Boro River in Arunachal Pradesh and Assam, India
2. Occasional Paper No. 418 – A systematic account of Telenominae (Hymenoptera: Scelionidae) of South Western Ghats of India
3. Occasional Paper No. 419 – A catalogue of Moths (Lepidoptera) in the collection of the Zoological Survey of India, Western Regional Centre, Pune, India (Part-I Pune District)
4. Occasional Paper No. 420 – A Catalogue of Indian Hoverflies (Insecta: Diptera: Syrphidae)
5. Occasional Paper No. 421 – An Updated Catalogue of Indian Muscidae (Insecta: Diptera)

❖ Special Publication:

6. Current Status of Faunal Diversity in Lakshadweep
7. Fauna of Terai Ecosystem

❖ Conservation Area Series:

8. Fauna of Valley of Flowers National Park, Uttarakhand: Conservation Area Series, 71
9. Faunal Diversity of Dihang-Dibang Biosphere Reserve, Arunachal Pradesh: Conservation Area Series, 76
10. Faunal diversity of Tale Wildlife Sanctuary (TWS) in Arunachal Himalayas, India: Conservation Area Series, 77
11. Faunal Diversity of Sainj Wildlife Sanctuary, District Kullu (Himachal Pradesh): Conservation Area Series, 78
12. Faunal Diversity of Narayan Sarovar Wildlife Sanctuary, Gujarat: Conservation Area Series, 79

❖ Ecosystem Series:

13. Fauna of Ropar Wetland (A Conservation Reserve and RAMSAR site) : Wetland Ecosystem Series, 23

❖ Others:

14. Animal Discoveries 2023
15. Annual Programme of Research 2024-25 (only printed)
16. Bharat Ki Jiv-Jantuo ki Suchi (Kosheruki) – Hindi
17. Annual Report 2023-2024 (English)
18. Annual Report 2023-2024 (Hindi)

❖ Fauna of India Checklist:

19. Fauna of India Checklist Volume 1 Protista & Lower Invertebrata
20. Fauna of India Checklist Volume 2 Arthropoda Vol. I
21. Fauna of India Checklist Volume 3 Arthropoda Vol. II
22. Fauna of India Checklist Volume 4 Arthropoda Vol. III
23. Fauna of India Checklist Volume 5 Arthropoda Vol. IV
24. Fauna of India Checklist Volume 6 Lower Chordata & Chordata

❖ **Journal: Records of Zoological Survey of India:**

1. Records of Zoological Survey of India Volume 123, Issue 4, 2023 (11 Articles)
2. Records of Zoological Survey of India Volume 124, Issue 1S, Special Issue, 2024 (68 Articles)
3. Records of Zoological Survey of India Volume 124, Issue 1, 2024 (13 Articles)
4. Records of Zoological Survey of India Volume 124, Issue 2, 2024 (14 Articles)
5. Records of Zoological Survey of India Volume 124, Issue 3, 2024 (13 Articles)
6. Records of Zoological Survey of India Volume 124, Issue 4, 2024 (13 Articles)
7. Records of Zoological Survey of India Volume 125, Issue 1, 2025 (14 Articles)

❖ **E-Newsletter:**

1. Monthly E-Newsletter from Zoological Survey of India, March, 2024, volume 62
2. Monthly E-Newsletter from Zoological Survey of India, April, 2024, volume 63
3. Monthly E-Newsletter from Zoological Survey of India, May, 2024, volume 64
4. Monthly E-Newsletter from Zoological Survey of India, June, 2024, volume 65
5. Monthly E-Newsletter from Zoological Survey of India, July, 2024, volume 66
6. Monthly E-Newsletter from Zoological Survey of India, August, 2024, volume 67
7. Monthly E-Newsletter from Zoological Survey of India, September, 2024, volume 68
8. Monthly E-Newsletter from Zoological Survey of India, October, 2024, volume 69
9. Monthly E-Newsletter from Zoological Survey of India, November, 2024, volume 70
10. Monthly E-Newsletter from Zoological Survey of India, December, 2024, volume 71
11. Monthly E-Newsletter from Zoological Survey of India, January, 2025, volume 72
12. Monthly E-Newsletter from Zoological Survey of India, February, 2025, volume 73

Zoological Survey of India

ZSI E-News



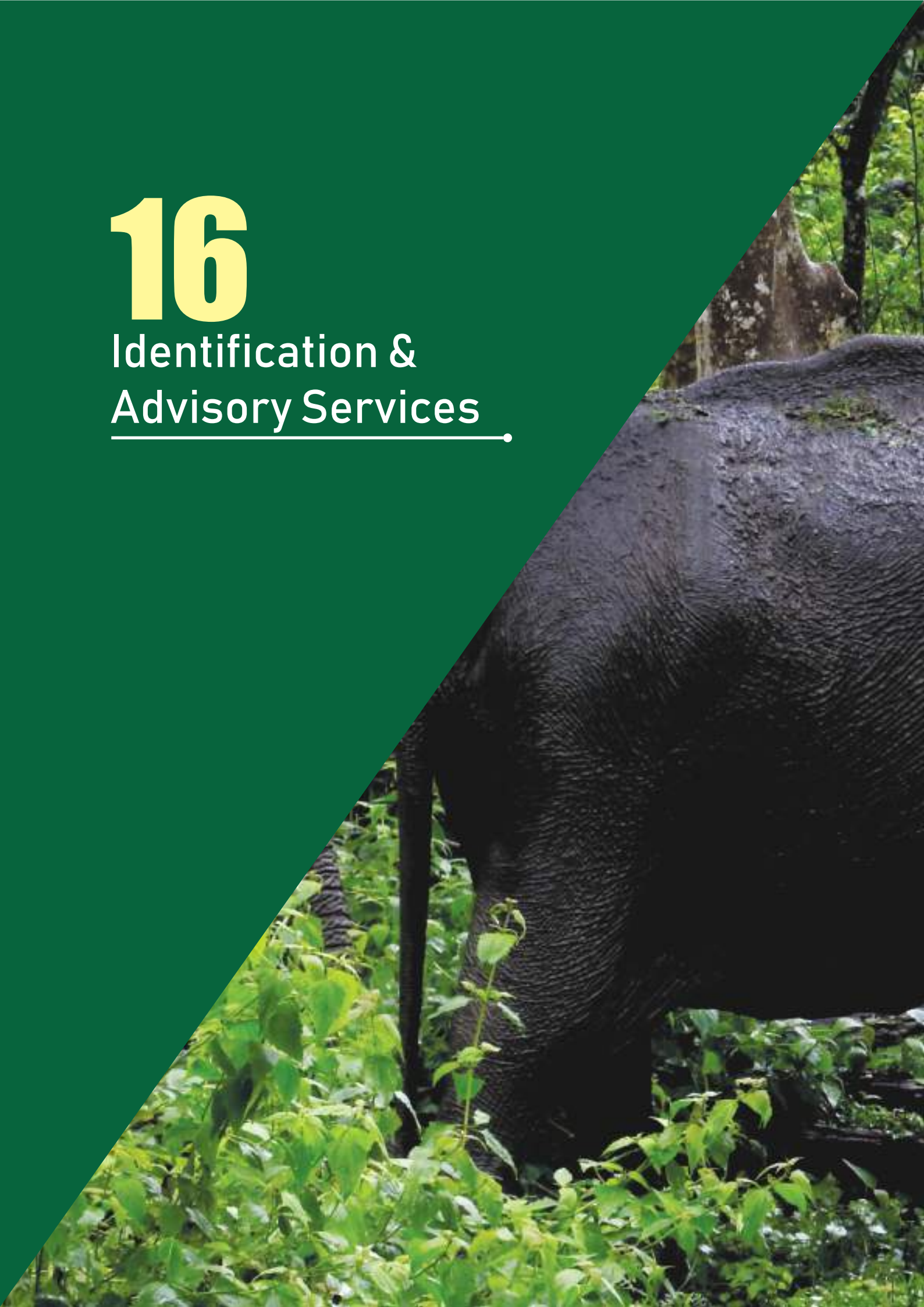
ZSI attending the selectatory session of the 3rd International Symposium on Plant Taxonomy, Ethnobotany, Botanic Gardens and Biodiversity Conservation (IS-IPTEBGBC 2025) as the Guest of Honour on 15th February 2025 in Kolkata, West Bengal

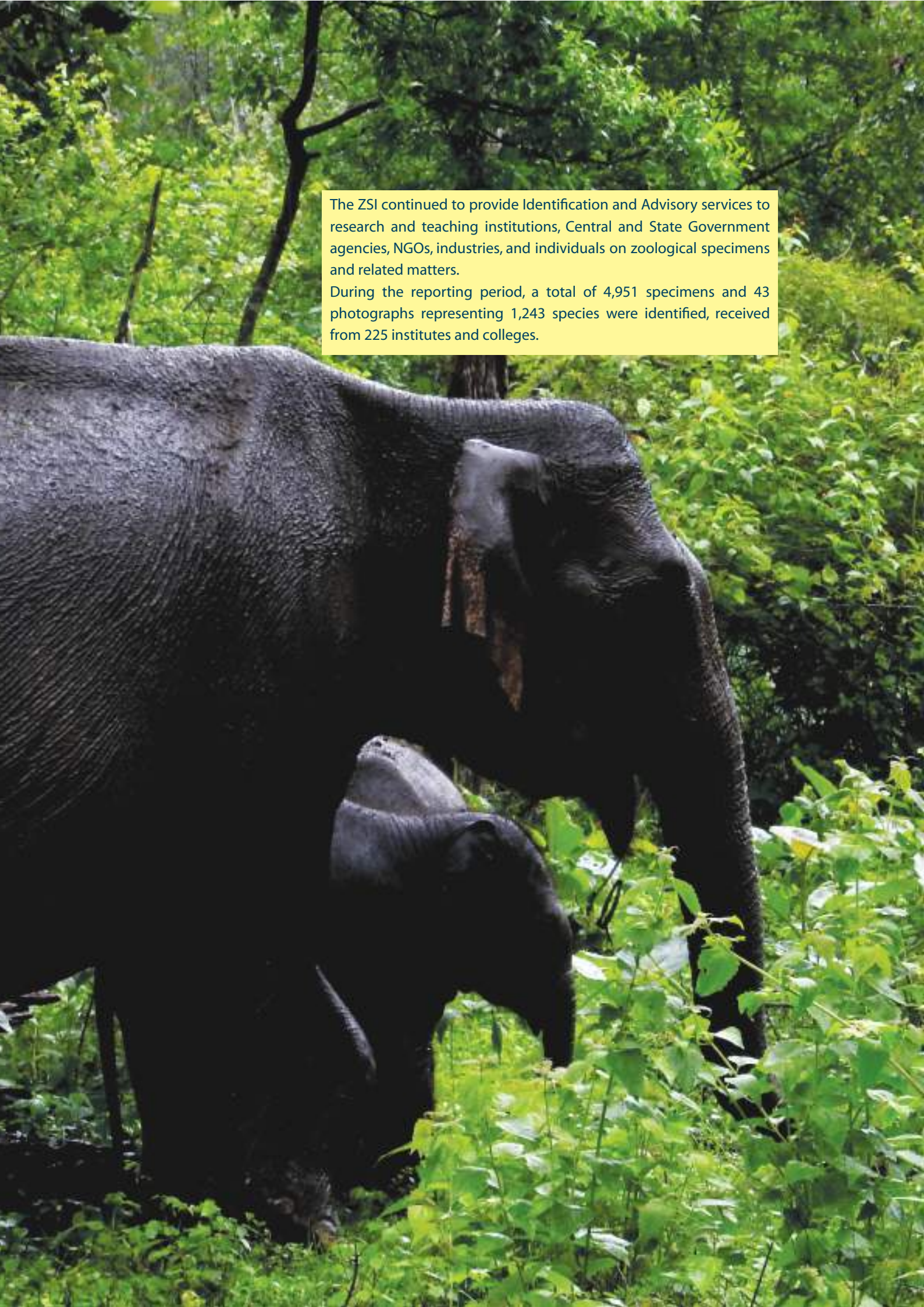


ZSI conferred with the Lifetime Achievement Award by the Society of Biological Sciences & Rural Development for her outstanding contribution to the field of Zoology on the occasion of the National Workshop on Groups, Reserves and Identification of Insects from 16th - 18th February at Fairfield by Marriott, Lucknow

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Identification & Advisory Services

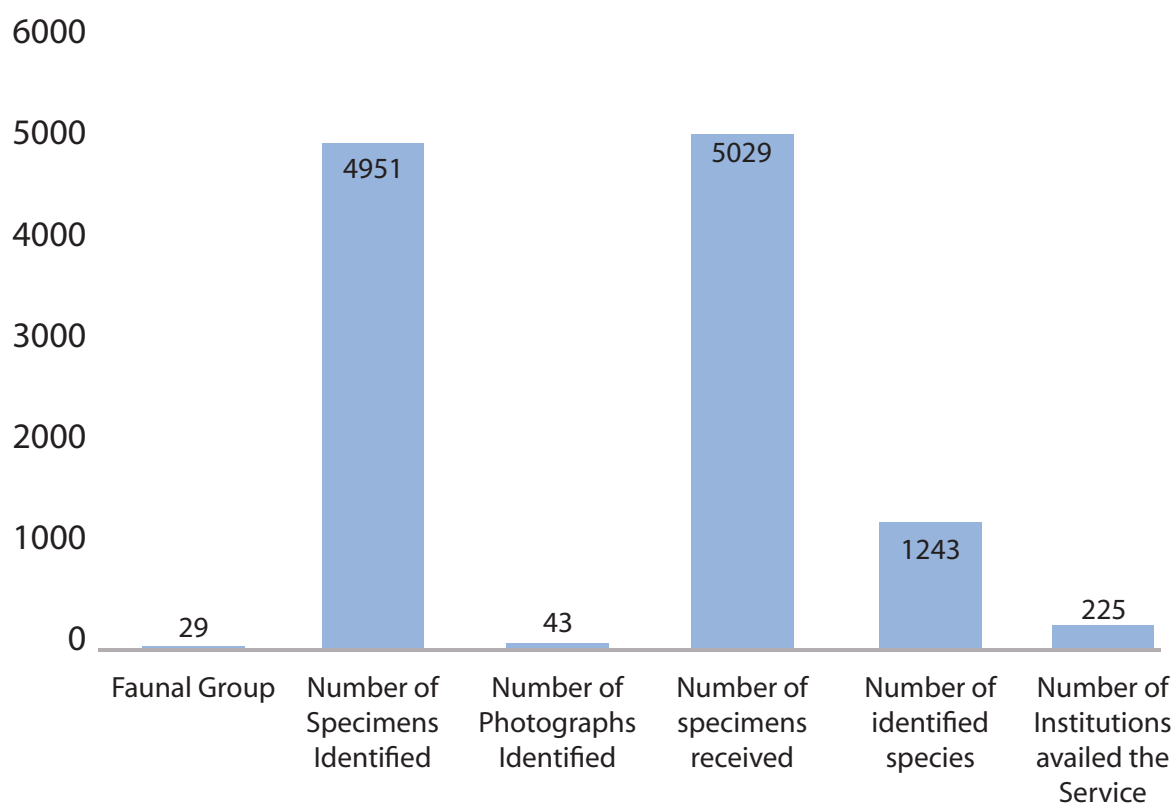


A photograph of an adult elephant and its calf in a lush green forest. The adult elephant is on the left, facing right, with its trunk reaching down towards the ground. The calf is positioned slightly behind and to the right of the adult, also facing right. The background is filled with dense green foliage and trees.

The ZSI continued to provide Identification and Advisory services to research and teaching institutions, Central and State Government agencies, NGOs, industries, and individuals on zoological specimens and related matters.

During the reporting period, a total of 4,951 specimens and 43 photographs representing 1,243 species were identified, received from 225 institutes and colleges.

Summary: Identification and Advisory services rendered by the Scientists during 2024-2025



Planonassus indicus Ebert, Akhilesh & Weigmann, 2018

Details of Identification and Advisory Services Rendered by Scientists during 2024–2025

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
1.	Mammalia	01	01	Loyola College
2.	Mammalia	02	02	Dr. Sreehari Raman, Assistant Professor, Kerala Agriculture University, Thrissur
3.	Mammalia	Photographs (8)	08	Zafeer Ahmad Shaikh, Wildlife Researcher, Karachi, Pakistan
4.	Mammalia	01	01	DFO, East Khasi Hills
5.	Mammalia	37	37	Mr. Harkirat Singh Sangha, Jaipur, Rajasthan
6.	Mammalia	25	25	Mr. Harkirat Singh Sangha, Jaipur, Rajasthan
7.	Mammalia	02	02	Dr. Neena Singla, Principal Zoologist (rodents) & PI, All India Network Project on Vertebrate Pest Management (rodent Control), Department of Zoology, Punjab Agricultural University (PAU), Ludhiana- 141004 (Punjab).
8.	Mammalia	52	52	Mr. Harkirat Singh Sangha, Jaipur, Rajasthan
9.	Mammalia	18	18	Mr. Harkirat Singh Sangha, Jaipur, Rajasthan
10.	Mammalia	13	13	Dr. Mohd Abas Shah, Scientist, ICAR- Central Institute of Temperate Horticulture, Srinagar, Jammu & Kashmir
11.	Mammalia	25	07	Department of Environmental Science, Calcutta University
12.	Mammalia	08	08	Department of Environment and Forests, Andaman and Nicobar Islands
13.	Mammalia	03	03	Department of Environmental Science, Calcutta University
14.	Aves	04	04	Department of Environment and Forests, Andaman and Nicobar Islands
15.	Amphibia	11 photos	11 photos	Rameshwar School, Vadodara, Gujarat Bankura Christian College, Bankura, West Bengal
16.	Pisces	Photographs	Photographs	Department of Environment and Forests, Andaman and Nicobar Islands
17.	Pisces	40	40	Indira Gandhi National Tribal University Amarakantak district-Anuppur, Madhya Pradesh
18.	Pisces	03	03	Jharagram Raj College, Jharagram, West Bengal
19.	Pisces	11	11	Jharagram Raj College, Jharagram, West Bengal

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
20.	Pisces	04	04	Department of Zoology Diamond Harbour Women's University, West Bengal
21.	Pisces	04	04	Department of Zoology Diamond Harbour Women's University, West Bengal
22.	Pisces	01	01	Division of Fisheries Resources Harvest and Post - Harvest Division Andheri (W), Mumbai – 400061
23.	Pisces	18	03	Department of Zoology Diamond Harbour Women's University
24.	Pisces	95	95	Dept. of Zoology, Narendra Khan Women's college, Midnapur, Paschim. Medinipur
25.	Pisces	20	20	The Habitat Trust, Noida.
26.	Pisces	04	04	University of Calcutta
27.	Pisces	01	01	Department of Fishery Science, Brahmananda Keshab Chandra College, West Bengal
28.	Pisces	166	166	Patkai College, Dimapur
29.	Pisces	04	04	Zoology Department North Eastern Hill University, Shillong
30.	Pisces	22	22	Dept. of Zoology, Assam Royal Global University, Guwahati, Assam
31.	Pisces	23	23	Assam University, Silchar
32.	Pisces	01	01	Mr. Naveen, Alpha Arts & Science College, Porur on 13-03-2025.
33.	Pisces	01	01	Ms. Prasad Ankita Brajbhushan, Ph.D Scholar, K.J. Somaiya College of Arts, Commerce & Science, Kopergaon, Maharashtra
34.	Pisces	65	65	Ramakrishna Mission Vivekananda Centenary College (Autonomous), Rahara, Kolkata 700118, West Bengal, India
35.	Pisces	01	01	Gujarat Institute of Desert Ecology, Gujarat
36.	Pisces	08	08	Univeristy of Madras, Guindy campus, Chennai
37.	Pisces	53	53	Miss. Sabha Shaikh, University of Mumbai, Mumbai - 400104, Maharashtra.
38.	Pisces	51	51	Mrs. Angha Bhoi Kamble. Research scholar, Arts, Commerce and Science College, Palus, Dist. Sangli, Maharashtra
39.	Pisces	22	22	Mrs. Jyoti Fulpagare, North Maharashtra University, Jalgaon, Maharashtra.

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
40.	Pisces	23	23	Mrs. Amruta Sutrave D. B. F. Dayanand College of Arts and Science, Solapur Maharashtra- 413002
41.	Pisces	01	01	University of Madras
42.	Pisces	01	01	SASTRA University
43.	Pisces	06	06	Bharathi Women's College
44.	Pisces	01	01	Loyola College
45.	Echinodermata	03	03	Dr. J.A. Johnson, Scientist, WII, Dehradun
46.	Echinodermata	32	32	Dr. K. Muthukumaravel, PG & Research Department of Zoology, Khadir Mohideen College, Adirampattinam, Thanjavur, Tamil Nadu
47.	Echinodermata	03	03	Department of Environment and Forests, Andaman and Nicobar Islands
48.	Echinodermata	650 KG (3 lots)	03	Police Department, Andaman and Nicobar Islands.
49.	Echinodermata	250 KG(1 lot)	01	Police Department, Andaman and Nicobar Islands.
50.	Echinodermata	01	01	Department of Environmental Science, Calcutta University
51.	Mollusca	04	04	B Barooah College, Guwahati
52.	Mollusca	01	01	Mr. Vikas Varpe, Research student, Yashwantrao Chavan college, Aurangabad.
53.	Mollusca	30	30	Dr. M. R. Abdar, Associate Professor, Dept. of Zoology, K. N. P. College, Walwa, Maharashtra.
54.	Mollusca	17	17	Dr. Ruchi Badola, Dean, FWS, Wildlife Institute of India, Post Box no. 18, Chandrabani, Dehradun - 248001
55.	Mollusca	10	10	Rojibala Rajkumari, Ph.D Research scholar, Manipur University, Canchipur, Imphal - 795003
56.	Mollusca	02	02	Mr. Sourav Das, Ph. D Research scholar, Deptt. of Zoology, University of Calcutta
57.	Mollusca	11	11	Mr. Nilanjan Hari Chatterjee, Deptt. of Zool., University of Calcutta
58.	Mollusca	06	06	Dr. Biplab Bhowmik, Associate Prof., Deptt. of Zool., Diamond Harbour Women's University, Sarisha, S-24pgs, WB - 743368
59.	Mollusca	01	01	Dr. Samir Kr. Ghosh, H.O.D., Deptt. of Biomedical Engineering, Netaji Subhas Engineering College, Garia, Kolkata – 700 152
60.	Mollusca	12	12	Md. Niamul Naser, Prof. & Chairman, Deptt. of Zool., University of Dhaka, Dhaka 1000, Bangladesh

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
61.	Mollusca	07	07	Dr. A.K.Verma, Asstt. Prof., Deptt. of Zool., Cotton University, College Hostel Road, Panbazar, Guwahati - 781001
62.	Mollusca	05	05	Dr. Subhamoy Das, Associate Professor & H.O.D., PG & UG Deptt. of Zool., Mahishadal, Purba Medinipur- 721628
63.	Mollusca	10	10	Dr. Vijaya Sai Ayyagari, Asst. Prof., Dept. Biotechnology, School of Biotechnology & Pharmaceutical Sciences, Vignan's Foundation for Science, Technology & Research, Vadlamudi - 522213, Andhra Pradesh
64.	Mollusca	13	13	Dr. Punarbasu Chaudhury, Associate Prof., Dept. of Environmental Science, University of Calcutta
65.	Mollusca	03	03	Dr. Anjali Chatterji, Scientist, Regional Research Institute (Homeopathy), Ministry of Ayush, Kolkata on 23.11.2024.
66.	Mollusca	28	28	SEA 2 Home Service Karnataka Bangalore -
67.	Mollusca	01	01	Principle Scientist - NIOT
68.	Mollusca	03	03	JBAS college
69.	Mollusca	342	342	JBAS college
70.	Mollusca	04	04	Dr. M.G.R Educational Trust
71.	Mollusca	01	01	Dr C V Kalpana, Assistant Professor, Dept. of Botany, Avinasilingam Institute for Home Science and Higher Education (Women) Coimbatore, Tamil Nadu
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72.	Mollusca	01	01	Dr V Pushparani Assistant Professor Department of Advanced Zoology and Biotechnology Loyola college, Nungambakkam Chennai - Tamil Nadu
73.	Mollusca	03	03	G.S.Pande
74.	Mollusca	17	17	Ms. Anushka Abhay Dev, M.sc Student, Nowrosjee Wadia College, Pune
75.	Mollusca	14	14	Ms. Shingate Snehal Nandkumar, Phd Student, Sadguru Gadage Maharaj College, Karad
76.	Mollusca	10	10	Ms. Varsha Dilip Gaikwad, Phd Student, Y. C. Institute of Science, Satara.
77.	Mollusca	15	15	Mr. M. A. Ansar Ali, Scientist- C, Entomology, Spice Board, Indian Cardamom Research Institute, Myladumpara, Idukki, Kerala.
78.	Mollusca	15	15	Ms. Komal Balasaheb Chavan, PhD Student, Pratishthan Mahavidyalaya Paithan, Chhatrapati Sambhajnagar

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
79.	Mollusca	16	16	Dr. S. R. Magare, Retired Professor, Dept. of Zoology, S. Mandal's Arts, Science, & Commerce College, Taloda-425413, Nandurbar, Maharashtra
80.	Mollusca	01	01	JBAS college
81.	Mollusca	01	01	Gov. Arts and Science College
82.	Mollusca	02	02	VIT, Vellore
83.	Mollusca	02	02	Department of Environment and Forests, Andaman and Nicobar Islands
84.	Mollusca	05	05	Department of Environment and Forests, Andaman and Nicobar Islands
85.	Mollusca	03	03	Department of Environmental Science, Calcutta University
86.	Chilopoda	55	55	PhD. Student of Shivaji University, Kolhapur, Maharashtra
87.	Collembola	21	21	Dr. Soni Kumari Tiwari, Asstt. Prof., Dept. of Zoology, Ranchi Univ., Ranchi, Jharkhand. ZSI Lot No. 73/2024
88.	Collembola	29	29	Dr. Lobeno Mozhui, Asstt. Prof., Dept. of Zoology, Lumami, Nagaland. ZSI Lot No. 36/2024
89.	Collembola	15	15	Dr. Soni Kumari Tiwari, Asstt. Prof., Dept. of Zoology, Ranchi Univ., Ranchi, Jharkhand. ZSI Lot No. 105/2024
90.	Embioptera	04	04	Anirban Das, Research scholar from Bidhan Chandra Krishi Viswavidyalaya, Mohanpur, Nadia, West Bengal, India. (Report No. ENT /MIO/129/2023 mailed to CEL section)
91.	Coleoptera	04	04	Sri Arup Kumar Gupta Assistant Prof., Dept. Of Zoology, Dinabandhu Andrews College, Kolkata
92.	Coleoptera	02	02	Dr. S. Arivoli, Assistant Prof. Dept of Zoology, Thiruvallur University, Serkkadu, Vellore
93.	Coleoptera	02	02	Mr. Tejas Kannampuzha, 207, MH-L South Campus, University of Hyderabad
94.	Coleoptera	03	03	Dr. Anuruddha Pramanik, Prof & Head dept of Agricultural Entomology, Bidhan Chandra Krishi Vishwavidyalaya, Nadia, WB 741252
95.	Coleoptera	03	03	Dr. Lobino Mozhui Assistant Prof Dept. Of Zoology, Nagaland University
96.	Coleoptera	05	05	Dr. Indrani Chakraborty, HOD Dept of Zoology, Jogmaya Devi College, Kolkata 700026
97.	Coleoptera	04	04	Anirban Das. Dept of Agri. Entomology, BCKV, Mohanpur Nadia

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
98.	Coleoptera	04	04	Minam Moyong, Dept of Zoology, Rajiv Gandhi University, Arunachal Pradesh
99.	Coleoptera	12	12	Mridudsmi Mahanta, Assistant Prof., Dept of Zoology, Sipajhar College, Darrang
100.	Coleoptera	03	03	Dr. K. Mohan Rao Principal Scientist & head, Acharya N. G. Ranga Agricultural University, Vijatarai, Eluru, AP
101.	Coleoptera	02	02	Mr. Dadhich, Lovely Professional University, Punjab
102.	Coleoptera	65	65	Prof. Dr. Surekha Anil Saraf, Government College of Arts & Science College, Chhatrapati Sambhajinagar
103.	Coleoptera	02	02	Dr. M. R. Abdar, Associate Professor, Dept. of Zoology, K. N. P. College, Walwa, Maharashtra.
104.	Coleoptera	04	04	Prof. Dr. R. D. Chaudhari, Vice Principal & Prof. & Head, Department of Zoology & Research Centre, Shri Shiv Chhatrapati College Pune
105.	Coleoptera	10	10	Prof. Dr. A. K. Sonawane, Research Centre Coordinator, Department of Zoology, M.S.G College, Malegaon, Nashik
106.	Coleoptera	06	06	Prof. Ramkrishna More Arts Commerce and Science College, Pune, Maharashtra
107.	Coleoptera	48	48	Head of Department Zoology, Government College of Arts and Science College, Chhatrapati Sambhajinagar, Maharashtra
108.	Coleoptera	10	10	Dr. Zanke, Assistant Professor, PG, Department of Zoology, YC Institute of sciences, Satara.
109.	Coleoptera	20	20	Dr. Chavhan, Assistant Professor, PG, Department of Zoology, Digambarrao Bindu Arts, Commerce and Science College, Nanded.
110.	Coleoptera	03	03	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
111.	Diptera	08	08	Dr. Surendra Kumar Singh, Professor & HOD, Banda University of Agriculture & Technology.
112.	Diptera	03	03	Reshma Lakra, SRF, Central National Herbarium, Botanical Survey of India, Shibpur, Howrah- 711103.
113.	Diptera	01	01	Dr. Prakash Karmakar, Professor, Dept. of Botany and Forestry, Vidyasagar University, Midnapur-721102, West Bengal, India.

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
114.	Diptera	70	70	Dr. A.M. Patel, Wheat Research station Sardarkurshi nagar Dantiwada, Agriculture University, Vijapur-384570, Gujrat
115.	Diptera	14	14	Dr. V. P. Pandey, CTO, FPD Entomology, FRI, Dehradun (Uttarakhand)
116.	Diptera	03	03	Dr. Indrani Barman, Asst. Professor, Programme of Biochemistry, Assam down town University, Panikhaiti, Guwahati-26, Assam, India.
117.	Diptera	03	03	Dr. Sangita Maiti Dutta, Course Co-ordinator and Asst. Professor of Zoology Dept. of Biological Science, Midnapore City College, West Bengal, India.
118.	Diptera	01	01	Dr. Prakash Karmakar, Professor, Department of Botany and Forestry, Vidyasagar University, Midnapore, West Bengal, India
119.	Diptera	12	12	Dr. Sunil Kumar Thakur, Head, Department of Animal Science, School of Life Science, Central University of H.P, Shahpur-176206
120.	Diptera	10	10	Dr. Nayan Roy Assistant Professor, Ecology Research Unit Department of Zoology, MUC Women's College, Burdwan- 713104
121.	Diptera	02	02	Dr. Subir Bera Professor of Botany University of Calcutta, 35 B.C. Road Kolkata- 700019
122.	Diptera	32	32	ICAR-Directorate of Floricultural Research, Pune, Maharashtra
123.	Diptera	17	17	ICAR-Directorate of Floricultural Research, Pune, Maharashtra
124.	Diptera	37	37	Central Coffee Research Institute, Balehonnur, Karnataka
125.	Diptera	01	01	Dr. K. Mohan Rao, Ph.D., Principal Scientist (Ento.) & Head, Acharya N.G. Ranga Agricultural University, Maize Research Centre, Agricultural Research Station, Vijayara, Andhra Pradesh
126.	Diptera	01	01	Dr. K. Mohan Rao, Ph.D., Principal Scientist (Ento.) & Head, Acharya N.G. Ranga Agricultural University, Maize Research Centre, Agricultural Research Station, Vijayara, Andhra Pradesh
127.	Diptera	01	01	Dr. K. Mohan Rao, Ph.D., Principal Scientist (Ento.) & Head, Acharya N.G. Ranga Agricultural University, Maize Research Centre, Agricultural Research Station, Vijayara, Andhra Pradesh

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
128.	Diptera	05	05	Mr. Anmol Singh, St. Andrew's College, Gorakhpur, Uttar Pradesh
129.	Lepidoptera	06	06	Dr. Suprakash Pal, Professor in Ag. Entomology & P.I. of NMPB Project (code: 19.24) Uttar Banga Krishi Viswavidyalaya Pudibari, Cooch Behar (W.B.) Pin code- 736165
130.	Lepidoptera	10	10	Dr. S.K. Singh, Dept. of Entomology, Banda University of Agriculture & Technology, Banda (U.P.)
131.	Lepidoptera	01	01	Miss. Manu Manjula, Research Scholar, Department of Zoology, Bodh Gaya, on Entomofauna of Bihar
132.	Lepidoptera	14	14	Himalayan University, Itanagar
133.	Lepidoptera	06	06	Mr. Dadhich, Lovely Professional University, Punjab
134.	Lepidoptera	56	56	Mr. Dadhich, Lovely Professional University, Punjab
135.	Lepidoptera	02	02	Department of Entomology, School of Agricultural Sciences and Rural Development (SASRD), Nagaland University, Medziphema-797106
136.	Lepidoptera	03	03	Department of Fruit Science, Punjab Agricultural University, Ludhiana, Punjab)
137.	Lepidoptera	02	02	Post Graduate Govt. College, Sector 11, Chandigarh, (UT).
138.	Lepidoptera	02	02	Department of Fruit Science, Punjab Agricultural University, Ludhiana, Punjab
139.	Lepidoptera	03	03	Post Graduatde Govt. College, Sector 11, Chandigarh, (UT).
140.	Lepidoptera	02	02	Dr. Y.S. Parmar University of Horticulture & Forestry, Solan, HP
141.	Lepidoptera	04	04	Department of Entomology, Punjab Agricultural University, Ludhiana, Punjab
142.	Lepidoptera	03	03	Post Graduate Govt. College, Sector 11, Chandigarh, (UT)
143.	Lepidoptera	03	03	Post Graduatde Govt. College, Sector 11, Chandigarh, (UT).
144.	Lepidoptera	02	02	Post Graduatde Govt. College, Sector 11, Chandigarh, (UT).
145.	Lepidoptera	74	74	Shoolni University, Solan, H.P.
146.	Lepidoptera	02	02	Post Graduatde Govt. College, Sector 11, Chandigarh, (UT).
147.	Lepidoptera	20	20	Dr. Simranjit Kaur, Government College, Chandigarh identified by Dr. Narender Sharma, Scientist-F, ZSI, NRC, Dehradun

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
148.	Lepidoptera	22	22	Ms. Divya Rawat, SRF, Govt. college Haldwani, Uttarakhand identified by Dr. Narender Sharma, Scientist-F, ZSI, NRC, Dehradun
149.	Lepidoptera	61	61	Prof. Shaikh Yasmeen of Department of Zoology, Dr. Rafiq Zakaria College for Women, Aurangabad
150.	Lepidoptera	05	05	Dr. Milind M. Shinkhede, Ph.D. Research Guide, Department of Zoology, Dada Ramchand Bakhru, Sindhu Mahavidyalaya, Panchpaoli, Nagpur-440017.
151.	Lepidoptera	09	07	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
152.	Lepidoptera	12	08	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
153.	Orthoptera	10	10	University of Jammu
154.	Orthoptera	61	61	Himalayan University, Itanagar
155.	Orthoptera	15	15	Govt College Hamirpur (HP)
156.	Orthoptera	20	20	Rumi Kalita, Phd Research Scholar Girijananda Chowdhury University, Assam
157.	Orthoptera	01	01	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
158.	Orthoptera	04	04	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
159.	Hymenoptera	02	02	Himalayan University, Itanagar
160.	Hymenoptera	01	01	Mr. Dadhich, Lovely Professional University, Punjab
161.	Hymenoptera	127	127	Sher-e-Kashmir University of Agricultural Sciences and Technology of Kashmir Shalimar, Srinagar, Jammu and Kashmir
162.	Hymenoptera	20	20	Ms. Shamyia, M.Sc. student of Kodancherry Govt. College for her M.Sc. project
163.	Hymenoptera	05	05	Dr. C.K. Borad, Agricultural Research Scientist, Anand Agricultural University, Anand, Gujarat
164.	Hymenoptera	05	05	Mr. Ahsan Ali, Research Scholar, Punjab University, Chandigarh.
165.	Hymenoptera	16	16	Mrs. Rabeea, Research Scholar, Department of Zoology, MES College, Mampad.
166.	Hymenoptera	16	16	Mrs. C. Aparna, M.Sc. student, Department of Zoology, Mananthavady Campus, Kannur University for her M.Sc. project

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
167.	Hymenoptera	04	04	Mr. David Raju, Naturalist, Wayanad Wild, CGH Earth, Lakkidi
168.	Hymenoptera	04	04	Dr. Bulganin Mitra, Professor Emeritus at Ramakrishna Mission Vivekananda Centenary College, Khardaha, West Bengal
169.	Hymenoptera	06	06	Prof. Dr. R.D. Chaudhari, Vice Principal & Head of the Department of Zoology & Research Centre, Shri Shiv Chhatrapati College, Pune.
170.	Hymenoptera	10	10	Head, Department of Zoology & Research Centre, Savitribai Phule Pune University, Pune
171.	Hymenoptera	36	36	Principal, K.J. Somaiya College of Arts, Commerce & Science, Kopergaon
172.	Hymenoptera	09	09	Principal, K.J. Somaiya College of Arts, Commerce & Science, Kopergaon.
173.	Hymenoptera	29	29	Dr. Muhammed Abdul Rafeeq K.U., Assistant Professor, Dept. of Zoology, MES Mampad College, Malappuram, Kerala
174.	Hymenoptera	48	48	Dr. Narayan Ghorai, West Bengal State University
175.	Hymenoptera	02	02	Dr. Samrat Bhattacharjee, Associate Professor and IQAC Scottish Church College, Kolkata
176.	Hymenoptera	03	03	Dr. Prakash Karmakar, Professor, Department of Botany, Vidyasagar University
177.	Hymenoptera	01	01	Reshma Lakra, Senior Research Fellow, Central National Herbarium, Botanical Survey of India, Shibpur, Howrah
178.	Hymenoptera	36	36	Dr. Nirmala Tripathi, Department of Zoology, Sido Kanhu Murmu University, Dumka, Jharkhand
179.	Hymenoptera	07	07	Binod Saradar Assistant Teacher, Kulpi Janapith High School, Kulpi, South 24 pgs, West Bengal
180.	Hymenoptera	11 vials	11 vials	Prof. (Dr.) Sandeep Das, Department of Biotechnology, Bodoland University, Assam.
181.	Hymenoptera	03	03	Reshma Lakra, SRF, Central National Herbarium, BSI, Shibpur, Howrah, West Bengal.
182.	Hymenoptera	08	08	Dr. Samrat Bhattacharjee, Associate Professor & IQAC coordinator, Scottish Church College, Kolkata.
183.	Hymenoptera	4 tubes	4 tubes	Anirban Das, Student, Department of Entomology, BCKV Mohanpur, Nadia.

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
184.	Hymenoptera	11	03	Dr. S. R. Koteswara Rao, Department of Entomology, Agricultural College, Bapatala.
185.	Hymenoptera	11 vials	11 vials	Agricultural Research Station, Vijayarai, Eluru, Andhra Pradesh.
186.	Hymenoptera	10	06	Department of Botany & Forestry, Vidyasagar University, Midnapore, West Bengal.
187.	Hymenoptera	07	07	Dr. Hemanga Hazarika, Assistant Prof., School of Pharmaceutical Sciences, Girijananda Chowdhuri University, Assam.
188.	Hymenoptera	13 tubes	13 tubes	Department of Botany & Forestry, Vidyasagar University, Midnapore, West Bengal.
189.	Hymenoptera	9 tubes	9 tubes	Dr. S.C. Kedar, Scientist- C, CSIR-CIMAP, Lucknow, U.P.
190.	Hymenoptera	39 tubes	39 tubes	Dr. S.C. Kedar, Scientist- C, CSIR-CIMAP, Lucknow, U.P.
191.	Hymenoptera	36 tubes	20	Dr. Haseena Bhaskar, Department of Agricultural Entomology, Kerala Agricultural University.
192.	Hymenoptera	09	09	Ms. Piyali Das, Department of Botany, University of Calcutta.
193.	Hymenoptera	4 vials	4 vials	Department of Entomology, College of Agriculture, Banda University of Agriculture & Technology, Banda, Uttar Pradesh.
194.	Hymenoptera	6 vials	3 vials	Acharya N.G. Ranga Agricultural University, Vijayarai, Eluru, Andhra Pradesh.
195.	Hymenoptera	2 vials	2 vials	Acharya N.G. Ranga Agricultural University, Vijayarai, Eluru, Andhra Pradesh.
196.	Hymenoptera	2 vials	2 vials	Acharya N.G. Ranga Agricultural University, Vijayarai, Eluru, Andhra Pradesh.
197.	Hymenoptera	4 vials	4 vials	Acharya N.G. Ranga Agricultural University, Bapatla, Andhra Pradesh
198.	Hymenoptera	1 vial	1 vial	Ms. Keerthana Haridas, Dept. of Zoology, University of Calicut
199.	Isoptera	18 vials	18 vials	Dr. A. Nageswara Rao, Assistant Professor, Department of Zoology, Nizam College, Basheerbagh, Osmania University, Hyderabad- 500 001
200.	Isoptera	18 vials	18 vials	Dr. Shoeb Ahmad, Research Guide, Department of Zoology, prof. Ramakrishna More Arts, Commerce and Science College, Akurdi Pune- 411 044

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
201.	Isoptera	2 vials	2 vials	E. Devasagaya Daisy, Assistant professor, Bharath Institute of Higher Education Research Selaiyur, Chennai, Tamil Nadu-600 126.
202.	Isoptera	1 vial	1 vial	E. Devasagaya Daisy, Assistant professor, Bharath Institute of Higher Education Research Selaiyur, Chennai, Tamil Nadu-600 126.
203.	Hemiptera	21	21	Thiruvalluvar University Serkkadu, Vellore-632115
204.	Hemiptera	03	03	Banda University of Agriculture & Technology
205.	Hemiptera	04	04	Dr. S.K. Singh, Department Entomology, College of Agriculture Banda University of Agriculture and Technology (UP).
206.	Hemiptera	04	04	Somnath Roy, Principal Scientist & In Charge Entomology Department, Tocklai Tea Research Institutes, Tea Research Association, Jorhat, Assam.
207.	Hemiptera	65	65	Acharya N. G. Ranga Agriculture University, Agriculture College Bapatla 522101, Andhra Pradesh
208.	Hemiptera	45	45	Acharya N. G. Ranga Agriculture University, Agriculture College Bapatla 522101, Andhra Pradesh
209.	Hemiptera	21	21	Acharya N. G. Ranga Agriculture University, Agriculture College Bapatla 522101, Andhra Pradesh
210.	Hemiptera	46	46	Himalayan University, Itanagar & Rajiv Gandhi University, Doimukh
211.	Hemiptera	01	01	Mr. Dadhich, Lovely Professional University, Punjab
212.	Hemiptera	01	01	Shri Pasupuleti Suresh, Department of Entomology, School of Agricultural Sciences, Nagaland University, Nagaland
213.	Hemiptera	02	02	Shri Pasupuleti Suresh, Department of Entomology, School of Agricultural Sciences, Nagaland University, Nagaland
214.	Hemiptera	04	04	Shri Pasupuleti Suresh, Department of Entomology, School of Agricultural Sciences, Nagaland University, Nagaland
215.	Hemiptera	01	01	Shri Pasupuleti Suresh, Department of Entomology, School of Agricultural Sciences, Nagaland University, Nagaland
216.	Hemiptera	04	04	Dr. Thirupam Reddy, Scientist-C, Central Silk Board, BSMTTC, Bastar, Chhattisgarh

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
217.	Hemiptera	12	12	Miss. Jai Shakti, Research Scholar, Department of Zoology, Patna Science College Ashok Rajpath Rd, Patna University Campus, Patna, Bihar 800005
218.	Hemiptera	02	02	Dr. M. R. Abdar, Associate Professor, Dept. of Zoology, K. N. P. College, Walwa, Maharashtra.
219.	Hemiptera	16	16	Dr. M. R. Abdar, Associate Professor, Dept. of Zoology, K. N. P. College, Walwa, Maharashtra.
220.	Hemiptera	08	08	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
221.	Hemiptera	05	05	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
222.	Hemiptera	05	03	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
223.	Thysanoptera	19	04	University of Kalyani, West Bengal.
224.	Thysanoptera	35	05	College of Agriculture, Vellayani, Trivandrum, Kerala.
225.	Thysanoptera	24	04	C.P. College of Agriculture, S.D. Agricultural University, Sardarkrushinagar-385506
226.	Thysanoptera	26	04	CSK Himachal Pradesh Krishi Vishwavidyalaya, College of Agriculture
227.	Thysanoptera	20	05	ICAR-Central Institute for Cotton Research, Panjari, Nagpur.
228.	Thysanoptera	04	04	University of Calcutta
229.	Thysanoptera	278	200	ICAR-NIBSM Chhattisgarh, Raipur
230.	Thysanoptera	65	65	Sardarkrushinagar Dantiwada Agricultural University. University in Dantiwada, Gujarat
231.	Thysanoptera	185	185	CSB-Central Tasar Research and training Institute, Jharkhand, Ranchi
232.	Thysanoptera	39	39	A.H. Barad, Anand Agricultural University (AAU), Gujarat, Anand
233.	Thysanoptera	04	04	Nadia, Mohanpur
234.	Blattodea	01	01	Mr. Sachin Dongare, Dept. of zoology, Dr. Babasaheb Ambedkar Marathwada University, Chh. Sambhajinagar.
235.	Odonata	01	01	Principal, Mahatma Gandhi Vidyamandir's Maharaja Sayajirao Gaikwad
236.	Odonata	02	02	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
237.	Odonata	18	15	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
238.	Mantodea	02	02	Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur
239.	Neuroptera	02	02	Dy. General Manager (R&R, CD) NTPC Limited Talaipalli Coal Mining Project., Chhattisgarh
240.	Crustacea	02	02	SRM Institute of Science and Technology
241.	Crustacea	13	13	University of Madras
242.	Crustacea	10	10	Ethiraj College
243.	Crustacea	03	03	Miss S.R. Sonawane, PhD Zoology student of S.S. & L.S. Patkar Varde College, Goregaon West, Mumbai-400 062
244.	Crustacea	25	25	Mrs. Pratiksha Sukdev Jadhav, PhD Student, Department of Zoology, KTHM College, Shivajinagar, Gangapur Road, NASHIK-422 002, Maharashtra
245.	Crustacea	03	03	School of Biosciences and Technology, Vellore Institute of Technology, Vellore
246.	Crustacea	01	01	Ethiraj College for Women, Chennai
247.	Crustacea	02	02	University of Madras, Guindy Campus, Chennai
248.	Crustacea	01	01	School of Biosciences and Technology, Vellore Institute of Technology, Vellore
249.	Crustacea	05	05	Dept of Zoology, Quaid-E-Milath Govt. College for women, Chennai
250.	Crustacea	05	05	Dept of Zoology, Quaid-E-Milath Govt. College for women, Chennai
251.	Crustacea	15	15	Dept of Zoology, Quaid-E-Milath Govt. College for women, Chennai
252.	Crustacea	02	02	Dept of Zoology, Quaid-E-Milath Govt. College for women, Chennai
253.	Crustacea	03	03	Dr. Sunita Jadhav, Head, Department of Zoology, Sir Parashurambhau College (Autonomous), Tilak Road, Pune-411 030, Maharashtra.
254.	Crustacea	3	3	Dr. Sunita Jadhav, Head, Department of Zoology, Sir Parashurambhau College (Autonomous), Tilak Road, Pune-411 030, Maharashtra.
255.	Crustacea	126	126	Miss Gayatri Nitin Pawar, Satara.
256.	Crustacea	144	144	Dr. K.S. Anoop Das, Assistant Professor, Centre for Conservation Ecology and Dept. of Zoology, M.E.S. Mampad College (Autonomous), Mampad-676 542, Malappuram district, Kerala.
257.	Crustacea	10	10	CUSAT, Kochi
258.	Arachnida	02	02	Dept. of Zoology, Hoogly Mohsin College, Hoogly (West Bengal)

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
259.	Arachnida	04	03	Central Tussar Research & Training Institute, Ranchi, Jharkhand
260.	Arachnida	06	06	Prof. Subhankar Kumar Sarkar, University of Kalyani
261.	Arachnida	04	04	Ghazal Amman, University of Kashmir
262.	Arachnida	11	11	Nagaland University
263.	Arachnida	50	50	UttarBanga-Krishi Vishwavidyalaya, Cooch Behar
264.	Arachnida	101	101	Institute of Forest Productivity, Ranchi (Indian Council of Forestry Research & Education)
265.	Arachnida	01	01	Bidhan Chandra Krishi Viswavidyalaya
266.	Arachnida	105	105	Dr. Bharat Shinde Principal Vidya Pratishthans Arts Science and Commerce College Baramati Dist Pune-413133
267.	Arachnida	56	56	Naseema Hullur, III PhD Department of Agril. Entomology, College of Agriculture University of Agricultural Sciences, Dharwad-580006, Karnataka
268.	Arachnida	97	97	Dr. J. J. Pastagia Professor and Head Department of Entomology, N. M. College of Agriculture, Navsari.
269.	Annelida	18	18	Dr. Nassreen Fatima Scientist (Plant protection) KVK, Kargil-I, SKUAST, Ladakh
270.	Annelida	54	54	Inventive Seeds Pvt. Ltd. Mustkil-Sikandra, Agra, Uttar Pradesh.
271.	Annelida	13	13	Shailesh Sinha Zala, Bhavnagar University, Gujarat
272.	Annelida	21	21	The Laxmi Organics, Chhattisgarh
273.	Annelida	32	32	Dr. J.A. Johnson, Scientist, WII, Dehradun
274.	Annelida	07	07	Dr. Nameirakpam Nirjanta Devi, Asst. Professor, Cotton University, Guwahati-781001
275.	Annelida	40	40	Dr Anoop Sachi, National Institute of Ayurvedha, Jaipur, Rajasthan 302002
276.	Annelida	14	14	Dr Nameirakpam Nirjanta Devi, Asst. Prof., Cotton University, Guwahati 781001
277.	Annelida	02	02	Ms. Bipasa Dey, Womens University, Dimond Harbour, West Bengal
278.	Annelida	48	48	Dr. Suresh Kumar, Mohanlal Sukharia University, Udaypur, Rajasthan
279.	Annelida	03	03	Mr. Sachin Ranade, Assistant Director, Bombay Natural History Society
280.	Annelida	02	02	Hakim Syed Ziaul Hasan Government (Autonomous), Unani Medical College, Bhopal

Sl. No.	Faunal Groups	No. of specimens received	No. of specimens identified	Name of the Institution availed the service
281.	Nematoda	01	01	The District Health Officer, Zilla Parishad, Washim
282.	Platyhelminthes photograph	01	01	Report submitted to Vibhor Pandey
283.	Cnidaria	04	01	Dr. J.A. Johnson, Scientist, WII, Dehradun
284.	Cnidaria	01	01	Kanchi Mamunivar Gov. Inst. for P.G Studies and Research
285.	Cnidaria	32	32	Mr. Venkatesh Charloo, Founder Trustee, Coastal Impact, 339/2A, Coima Vaddo, Quitula, Aldona, Bardez, Goa – 403 508
286.	Porifera	02	02	JBAS college
287.	Porifera	02	02	Vivekananda Institute of Tropical mycology
288.	Porifera	04	04	Karunya Ist. Of Technology and Sciences
289.	Porifera	02	02	Odisha State Pollution Control Board
290.	Porifera	04	04	Sankara Arts and Science College.
291.	Rotifera	20 Photographs	20	Mrs. Grace Varghese, Research Scholar, Christ College, Irinjalakuda, Thrissur, Kerala on 23-04-2024.
Total		5029 specimens & 43 photographs	4951 specimens, & 43 photographs	225





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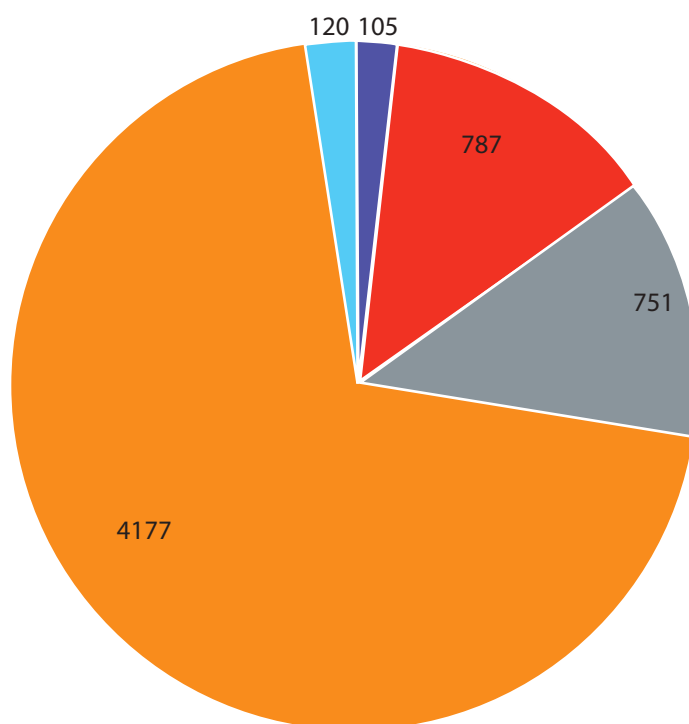
Identification of Confiscated Materials



ZSI regularly provides identification of confiscated wildlife materials, including animal body parts, to various law enforcement agencies, thereby contributing to the control of wildlife crime. During the reporting period, a total of 751 specimens and 4177 photographs belonging to 105 species of fauna including Amphibians, Echinodermata, Cnidaria, Lepidoptera, Mollusca, Fishes, Reptiles, Birds, and Mammals were identified for 120 enforcement agencies.



Summary of Identification of Confiscated Materials during 2024–2025



- Number of Species identified
- Number of Materials received
- Number of Materials identified
- Number of Photographs identified
- Number of Law Enforcement Agencies availed the Service

Details of Confiscated Wildlife Materials Identified by Scientists during 2024–2025

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
1	Mammal	Antler	02	02	DFO, Jaldapara Wildlife Division, Cooch Behar
2	Mammal	Antler	06	06	DFO, Kurseong Division
3	Mammal	Antler	01	01	DFO, Jaldapara Wildlife Division, Cooch Behar
4	Mammal	Antler	02	02	DFO, Jaldapara Wildlife Division, Cooch Behar
5	Mammal	Antler	01	01	DFO, Jaldapara Wildlife Division, Cooch Behar
6	Mammal	Antler	01	01	DFO, Jaldapara Wildlife Division, Cooch Behar
7	Mammal	Antler	02	02	DFO, Jaldapara Wildlife Division, Cooch Behar
8	Mammal	Antler	02	02	DFO, Jaldapara Wildlife Division, Cooch Behar
9	Mammal	Antler	01	01	Devesh Pandey, IFS,DFO,Kurseong Divison
10	Mammal	Antler	01	01	Devesh Pandey, IFS,DFO,Kurseong Divison
11	Mammal	Antler	02	02	DFO, Jaldapara Wildlife Division, Cooch Behar
12	Mammal	Antler with skull	01	01	Devesh Pandey, IFS,DFO,Kurseong Divison
13	Mammal	Antler	02	02	Devesh Pandey, IFS,DFO,Kurseong Divison
14	Mammal	Antler with skull	01	01	IO, Pithabata, South WL Range, Simlipal South WL Division, Baripada Mayurbhanj, Odisha
15	Mammal	Antlers	02	02	Police Sub Inspector, Pelhar Police Station, Palghar district, Maharashtra
16	Mammal	Antlers of Sambar	02	02	Varishthh Police Nirikshak, Wagle Estate Police Station, Thane City, Maharashtra.
17	Mammal	Antler, Quills, Horn and skin	05+29+02+01	05+29+02+01	DFO, Jaldapara Wildlife Division, Cooch Behar

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
18	Mammal	Teeth and Antler	01+01	01+01	Divisional Forest Officer, Kalahandi south Division, Odisha.
19	Mammal	Antler and Piece of Bone	02		Assistant Conservator Forest, Similipal South Wildlife Division, Odisha
20	Mammal	Teeth, Antler & Scale	01+03+705gm	01+03+705gm	FRO, Kuldiha Wildlife Range, Nilgiri, Odisha
21	Mammal	Antler & Tusk	02	02	DFO, Buxa Tiger Reserve (West) Division, Alipurduar.
22	Mammal	Molar teeth	01	01	Divisional Forest Officer, Jaldapara Wildlife Division
23	Mammal	Cut piece of ivory	05	05	DFO, Baripada Forest Division, Mayurbhanj, Odisha
24	Mammal	Tusk	02	02	DFO, Jalpaiguri Forest Division
25	Mammal	Tusk	01	01	DFO, Bargarh, Forest Division, Odisha
26	Mammal	Tusk	02	02	The Civil Judge, (Jr. Division) JMFC, Muniguda, Dist-Rayagada, Odisha.
27	Mammal	Elephant tusk	02	02	Police Havildar, Manpada Police Station, Dombivali east, Thane city, Thane district, Maharashtra
28	Mammal	Suspected ivory trophy	01	01	Enquiry Officer cum Forest Range Officer, WCCC & DMU, Saltlake, Kolkata
29	Mammal	Suspected ivory trophy	10	10	Enquiry Officer cum Forest Range Officer, WCCC & DMU, Saltlake, Kolkata
30	Mammal	Horn	01	01	DFO, Jaldapara Wildlife Division, Jalpaiguri.
31	Mammal	Canine teeth and bone	07	07	DFO, Khariar(T) Division, Khariar of Sinapali Range
32	Mammal	Skin, Claw ,Tusk	15	15	FRO, Rampurhat
33	Mammal	Leopard claws	04	04	Police Sub Inspector, Karvir Police Station, Kolhapur, Maharashtra

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
34	Mammal	Leopard Claws	14	14	Vankshetrapal, Pen (Savarakshan), Raigad district, Maharashtra
35	Mammal	Teeth, Whiskers and Skin	11	11	Podadiha WL Range, SDJM, Udala
36	Mammal	Scale with skin & bone	01	01	DFO, Gorumara Wildlife Division
37	Mammal	Hair, scat and blood sample	03	01	Tangi Range, ACF, Khordah, Odisha
38	Mammal	Meat sample and Antler	01+02	01+02	DFO, Jaldapara Wildlife Division, Cooch Behar
39	Mammal	Tail tip & Trunk tip	02	02	DFO, Jaldapara Wildlife Division, Cooch Behar
40	Mammal	Meat & Skin	01+01	01+01	I/O cum ACF, Bamra Wildlife Division
41	Mammal	Meat sample	01	01	Deputy Conservator of Forests, Wildlife Division, Haddo, Port Blair.
42	Mammal	Meat sample	01	01	DFO, Satkosia Wildlife Division, Angul
43	Mammal	Meat	01	01	Deputy Conservator Of Forests/Wildlife Division/ Haddo/Port Blair
44	Mammal	Meat	02	02	DFO, S 24-Parganas
45	Mammal	Meat	01	01	DFO Cum Wildlife Warden, Rourkela Forest Division, Sundargarh, Odisha
46	Mammal	Meat	01	01	Forest Range Officer, Nawada Forest Range, Bihar.
47	Mammal	Meat	04	04	Forest Range Officer, Buguda Range
48	Mammal	Cooked and raw meat	02	02	Forest Range officer, Pampasar Wildlife Range, Satkosia, WL Division, Angul, Odisha.
49	Mammal	Meat and skin	09	08	DFO, S.24 Parganas, Ld. ACJM Court, Kakdwip.
50	Mammal	Tissue	01	01	FR, Howrah Urban SF Range Howrah division
51	Mammal	Skin	01	01	DFO, Jaldapara Wildlife Division, Cooch Behar
52	Mammal	Skin	01	01	DFO, Nadia-Murshidabad Division, WBFD

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
53	Mammal	Skin	01	01	DFO, Jaldapara Wildlife Division, Cooch Behar
54	Mammal	Skin	01	01	DFO, Jaldapara Wildlife Division, Cooch Behar
55	Mammal	Skin	01	01	FRO, Sinapali Range, Nuapada, Odisha
56	Mammal	Skin	01	01	DFO, Buxa Tiger reserve (West) Division,
57	Mammal	Skin	01	01	Asst. Conservator of Forests-Cum-investigation officer, Deogarh forest Division.
58	Mammal	Skin	01	01	CJM Balasore, Odisha.
59	Mammal	Skin	01	01	JMFC Odisha FRO G Udaygiri Range, Odisha
60	Mammal	Skin sample	01	01	Divisional Forest Officer, Baikunthapur Forest Division
61	Mammal	Skin, Nail, Teeth, Moustache & cutting bones	01+02+02+04+15	01+02+02	ACF, Khariar Division, Odisha
62	Mammal	Skin and Teeth	01+01	01+01	DFO, Angul Forest Division, Thana Chhaka, Odisha
63	Mammal	Skin	01	01	DFO, Cuttack Forest Division, Nuapada, Odisha
64	Mammal	Skin	05	02	Debasish Sharma, IFS, Deputy Field Director, Buxa Tiger reserve (East) division
65	Mammal	Skin	01	01	DFO, Jalpaiguri Division
66	Mammal	Skin and Antler	01+02	01+02	DFO, Balasore Wildlife Division.
67	Mammal	Skin and horn	02	02	IO Cum Asst. Conservator of Forests, Phulbani Forest Division of Phulbani Range.
68	Mammal	Skin and scales	02	02	DFO, Jaldapara WL Division, Coochbehar
69	Mammal	Scales	03	03	DFO, Bargarh, Forest Division, Odisha
70	Mammal	Skull, teeth & Bones	01+02+17	01+02+17	DFO, Jaldapara Wildlife Division, Cooch Behar

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
71	Mammal	Blood sample	02	02	Wildlife Warden cum Divisional Forest Officer, Sambalpur Forest Division, Odisha
72	Mammal	Hair sample	01	DFO, Angul Forest Division, Thana Chhaka, Odisha	
73	Mammal	Paint brush	11	11	FR Range Officer, land and law cell range North 24 Parganas.
74	Mammal	Paint brush	09	09	FR Range Officer, land and law cell range North 24 Parganas.
75	Mammal	Paint brush	11	11	FR Range Officer, land and law cell range North 24 Parganas.
76	Mammal	Musk Pod (Kasturi)	01	01	Sahayak Police Nirikshak, Pen Police station, Raigad district, Maharashtra
77	Mammal	Ambergris	01	01	District Munsif cum Judicial Magistrate, Vedaranyam
78	Mammal	Ambergris	02	02	Chief Judicial Magistrate, Jalpaiguri
79	Mammal	Ambergris	01	01	Deputy Conservator Forest, Social Forestry Division, Anand
80	Mammal	Ambergris	01	01	Dy. Conservator Of Forest of Forest Social Forestry Division, Navsari
81	Mammal	Ambergris	01	01	Range Forest Officer, Valsad, Nanakwada
82	Mammal	Ambergris	05	05	Forest Range Officer, Chiplun, Offense Spot, Valope Tal, 83Chiplun, Dist-Ratnagiri
83	Mammal	Ambergris	03	03	IPS, Dy. Commissioner Of Police, Zone I, Mumbai. Sir J J Marg Police Station, Mumbai.
84	Mammal	Ambergris	01	01	Thiru M Siva Rajesh, Judicial Magistrate Sankaran Kovil.

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
85	Mammal	Ambergris	02	02	Range Forest Officer, Chiplun, Dist- Ratnagiri
86	Mammal	Ambergris	01 approx. 14gm	01 approx. 14gm	Dy. Commissioner of Police, Thane City, Maharashtra
87	Mammal	Ambergris	01 approx. 1.451 Kgs	01 approx. 1.451 Kgs	Dy. Conservator of Forest, Shetrunji Wildlife Division, Palitana Bhavnagar
88	Mammal	Ambergris	01	01 about 350gms	Judicial Magistrate, No. I Tirupathur district
89	Mammal	Mammals (Macaque)	8	8	Department of Environment and Forests, Andaman and Nicobar Islands
90	Mammal	Seized live Orangutan	01	01	Deputy Director, Wildlife Crime Control Bureau, Western region, Mumbai
91	Mammal	Photograph	01	01	IO Cum ACF Of Khorda Division, Odisha Tangi Range.
92	Mammal	Photograph	04	04	FR, E.O Cum R.O Barasat, S.F Range, North 24 Parganas, Barasat Road
93	Mammal	Close up photographs Pangolin scales	04	04	Divisional Forest Officer, Wildlife, Jaintia Hills Division
94	Mammal & Bird	Photos	2 lots	2 lots	Wildlife Crime Control Bureau, Chennai
95	Bird	Few feathers and Meat samples	03	Nil	The Forest Range Officer, Lalgah Range, Medinipur Division, West Bengal.
96	Bird	Bird body parts (feathers, claws and beaks).	03	03	Judicial Magistrate First Class (JMFC) Betnoti Mayurbhanj Odisha - 757025
97	Bird	Bird body Parts (feathers and dried body skins).	02	02	The Assistant Commissioner Special Intelligence and Investigation Branch, Custom House, 15/1, Strand Road, Kolkata - 700001 West Bengal.

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
98	Bird	Bird body Parts (feathers and dried body skins).	02	02	The Assistant Commissioner Special Intelligence and Investigation Branch, Custom House, 15/1, Strand Road, Kolkata - 700001 West Bengal.
99	Bird	Bird body Parts (dried body skins).	01	01	Superintendent of Customs (Prev.) Postal Appraising Department, Foreign Post Office Kolkata - 700001
100	Bird	Bird body Parts (dried body skins).	01	01	Superintendent of Customs (Prev.) Postal Appraising Department, Foreign Post Office Kolkata - 700001
101	Bird	Bird body Parts (dried body skins).	01	01	Superintendent of Customs (Prev.) Postal Appraising Department, Foreign Post Office Kolkata - 700001
102	Bird	Aves	04	04	Department of Environment and Forests, Andaman and Nicobar Islands
103	Bird	Identification of Bird feathers		8 Packets	Assistant Conservator of Forests, I/C Boudh Forest Range, At- Malisahi, Po/ Ps/Dist. Boudh, Odisha - 762014.
104	Bird	Identification of Bird feathers	NA	NA	The Regional Deputy Director Eastern Region Wildlife Crime Control Bureau Nizam Palace, 6th floor Kolkata - 700020
105	Bird	Photos of seized live birds.	22	22	Divisional Forest Officer, Office of the Divisional Forest Officer, Directorate of Forests, Nadia - Murshidabad Division, Krishnagar, Nadia - 741101, West Bengal

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
106	Bird	Photo of seized live bird.	01	01	Range Officer, Directorate of Forests Office of the Forest Range Officer Wildlife Crime Control Cell & Data Management Unit, Salt Lake, Sector - 1, Block - AF Kolkata-700064, West Bengal.
107	Bird	Photo of seized live bird.	01	01	Sub - Divisional Judicial Magistrate (SDJM), Office of the SDJM, Khorda - 752055, Odisha.
108	Bird	Photos of seized dead bird.	02	02	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
109	Bird	Photo of seized dead birds.	01	01	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
110	Bird	Photo of seized dead birds.	13	13	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
111	Bird	Photo of seized dead birds.	14	14	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
112	Bird	Photo of seized dead birds.	01	01	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
113	Bird	Photo of seized dead birds.	01	01	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
114	Bird	Photo of seized dead birds.	02	02	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
115	Bird	Photo of seized dead birds.	01	01	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
116	Bird	Photo of seized birds.	03	03	NGN Cum JMFC Tangi, Khorda - 752023 Odisha.
117	Bird	Photo plates of seized live birds.	03	03	The Inquiry Officer & Range Officer, Kandi Range Krishnagar - 741101 Nadia District, West Bengal
118	Bird	Photo plates of seized live birds.	01	01	The Inquiry Officer & Range Officer, Kandi Range Krishnagar - 741101 Nadia District, West Bengal
119	Bird	Photo plates of seized live birds.	01	01	The Inquiry Officer & Range Officer, Kandi Range Krishnagar - 741101 Nadia District, West Bengal

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
120	Bird	Photographs of Seized live birds.	01	01	Judicial Magistrate 1st Class (JMCC) (Cog.) Tangi, Khordha, Khordha- 752023 Odisha
121	Bird	Photographs of Seized live birds.	01	01	Forest Range Officer, Directorate of Forests, Government of West Bengal, Barrackpore S.F. Range, Barrackpore – 700120, Dist. 24 Pgs (North), West Bengal.
122	Bird	Photographs of Seized live birds.	01	01	Forest Range Officer, Directorate of Forests, Government of West Bengal, Barrackpore S.F. Range, Barrackpore – 700120, Dist. 24 Pgs (North), West Bengal.
123	Bird	Photographs of Seized live birds.	01	01	Forest Range Officer, Directorate of Forests, Government of West Bengal, Barrackpore S.F. Range, Barrackpore – 700120, Dist. 24 Pgs (North), West Bengal.
124	Bird	Photographs of dead birds	01	01	Sorana Wildlife Section, Tangi Wildlife Range and sent from Forest Range Officer, Tangi, Khordha – 752023.
125	Bird	Photographs of dead birds	01	01	Sorana Wildlife Section, Tangi Wildlife Range and sent from Forest Range Officer, Tangi, Khordha – 752023.
126	Bird	Photographs of live birds	02	02	The Forest Range Officer, Directorate of Forests, Government of West Bengal, Office of the Range Forest Officer, Bongaon S.F. Range, Bongaon – 743235, Dist – North 24 Pgs, West Bengal.
127	Bird	Photographs of live birds	02	02	Enquiry Officer cum Range Officer, Barasat S.F Range, 24 Parganas (N) Forest Division, Rathtala, Barasat Road, Barasat – 700124

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
128	Bird	Photographs of seized dead birds	06	06	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.
129	Bird	Photographs of seized dead birds	01	01	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.
130	Bird	Photographs of seized dead birds	01	01	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.
131	Bird	Photographs of seized dead birds	01	01	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.
132	Bird	Photographs of seized dead birds	03	03	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.
133	Bird	Photographs of seized dead birds	14	14	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.
134	Bird	Photographs of seized dead birds	03	03	Mukteswar Wildlife Section, Tangi Wildlife Range, Chilika Wildlife Division, Balugaon and sent from Forest Range Officer, Tangi, Khordha - 752023.

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
135	Bird	Photographs of seized live birds	26	26	Forest Range Officer, Bongaon S.F Range, 24 Parganas (North) Division, Bongaon – 743235
136	Bird	Photographs of seized birds	01	01	Enquiry Officer cum Range Officer, Barasat S.F Range, 24 Parganas (N) Forest Division, Rathtala, Barasat Road, Barasat – 700124.
137	Bird	Photographs of seized birds	09	09	Enquiry Officer cum Range Officer, Barasat S.F Range, 24 Parganas (N) Forest Division, Rathtala, Barasat Road, Barasat – 700124.
138	Bird	Photograph of dead bird	01	01	Divisional Forest Officer Nadia - Murshidabad Division Krishnagar, Nadia - 741101 West Bengal
139	Bird	Photographs of seized birds	04	04	The Enquiry Officer & Range Officer Rampura SF Range Minakhan-743441 North 24 Parganas District West Bengal
140	Bird	Photographs of seized live birds	10	10	The Chief Judicial Magistrate, Balasore Dist- Balasore- 756001 Odisha
141	Bird	Photograph of dead birds	02	02	The Judicial Magistrate First Class (JMFC) Chilika, Khordha Odisha Pin - 752050
142	Bird	Photograph of dead birds	07	07	The Judicial Magistrate First Class (JMFC) Chilika, Khordha Odisha Pin - 752050
143	Bird	Photographs of seized dead birds	Photograph involves 19 dead individuals	Photograph involves 19 dead individuals	Divisional Forest Officer (DFO), City Forest Division, Bhubaneswar, Dist- Khorda, Odisha- 751007
144	Bird	Photographs of seized dead birds	Photograph involves 2 no of alive birds	Photograph involves 2 no of alive birds	Divisional Forest Officer (DFO), City Forest Division, Bhubaneswar, Dist- Khorda, Odisha- 751007

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
145	Bird	Photographs of seized dead birds	02	02	Divisional Forest Officer Nadia - Murshidabad Division Krishnagar, Nadia - 741101 West Bengal
146	Reptiles	Skin, Head, Gall bladder, eye, tail, claw and fats	09	09	Central Forest Division. Govt. Of Manipur
147	Reptiles	Hemipenis of lizard	35	35	Office of the Divisional Forest Officer, Durgapur Division
148	Reptiles	Hemipenis of lizard	04	04	Office of the Divisional Forest Officer, Durgapur Division
149	Reptiles	Dead <i>Varanus</i> specimen	One head, Four Paws, One tail	One head, Four Paws, One tail	Van Parikshetra Adhikari, Devla (Pradeshik), Devla, Nashik, Maharashtra
150	Reptiles	Genitalia (Hathajodi) of Monitor lizard	05	05	Vanparikshetra Adhikari (Rohayo), Solapur, Solapur district, Maharashtra
151	Reptiles	Dry Skin of lizard	02	02	Office of the Divisional Forest Officer, Phulbani Forest Division, Odisha
152	Reptiles	Photograph of Gecko	01	01	Shasan P.S.
153	Reptiles	Photographs of Gecko	03	03	Chapra P.S.
154	Reptiles	Photographs of Gecko	03	03	Chapra P.S.
155	Reptiles	Photograph of turtle	01	01	Office of the Divisional Forest Officer, Cooch Behar Division
156	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
157	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
158	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
159	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
160	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
161	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
162	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
163	Reptiles	Photograph of turtle	01	01	Forest Range Officer, Calcutta – I Range, WCCC & DMU
164	Reptiles	Photographs of turtles	05	05	Forest Range Officer, Calcutta – III Range, WCCC & DMU
165	Reptiles	Photograph of turtle	01	01	Forest Range Officer of Basirhat
166	Reptiles	*Photographs of turtles	1170	1170	Forest Range Officer of Howrah
167	Reptiles	Photographs of turtles	688	688	Forest Range Officer of Howrah
168	Reptiles	Photographs of turtles	05	05	Forest Range Officer of Howrah
169	Reptiles	Photographs of turtles	10	10	Forest Range Officer of Bangaon
170	Reptiles	Photographs of turtles	160	160	Forest Range Officer of Bangaon
171	Reptiles	Photographs of turtles	1853	1853	Forest Range Officer of Calcutta
172	Reptiles	Photographs of turtles	34	34	Forest Range Officer of Barasat S. F. Range
173	Reptiles	Photographs of turtles	30	30	Forest Range Officer of Bangaon
174	Reptiles	Photographs of turtles	04	04	West Bengal Forest Department (Wildlife Crime Control Unit)
175	Fishes	Fish	06	06	Department of Forest, Dibrugarh Forest Division, Assam, India
176	Fishes	Tissue	05	05	RO, National Park East Range, Sundarban Tiger Reserve
177	Fishes	Ray	03	03	Judicial Magistrate
178	Fishes	Ray	Exhibit 1-10	Exhibit 1-10	Chief Judicial Magistrate, Lakshadweep
179	Fishes	Ray Skin	02	02	RDD, WCCB, Chennai

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
180	Fishes	Sharks (Photograph)	01	01	Department of Environment and Forests, Andaman and Nicobar Islands
181	Echinodermata	Echinodermata	15	15	Department of Environment and Forests, Andaman and Nicobar Islands
182	Echinodermata	Echinodermata	650 KG (3 lots)	03	Police Department, Andaman and Nicobar Islands.
183	Echinodermata	Echinodermata	250 KG (1 lot)	01	Police Department, Andaman and Nicobar Islands.
184	Echinodermata	Sea Cucumber	10	10	Judicial Magistrate of Devakottai
185	Echinodermata	Sea Cucumber	01	01	FRO and Judicial Magistrate of Thoothukudi
186	Echinodermata	Sea Cucumber	02	02	FRO, GOMBR
187	Mollusc	Mollusca	06	06	PCCF and Directorate
188	Mollusc	Mollusca	02	02	Department of Environment and Forests, Andaman and Nicobar Islands
189	Mollusc	Mollusca	05	05	Department of Environment and Forests, Andaman and Nicobar Islands
190	Mollusc & Cnidaria	Mollusca and Octocoral	39	39	Divisional Forest Officer, City Forest Division, AT Green Park Nursery, Saheed Nagar, Bhubaneswar-751007
191	Cnidaria	Seafan (Dry)	02	02	RFO, Dungar South Range, Gujarat State Forest Department Sardarbaug Junagadh 362001
192	Cnidaria	Scleractinian corals and Octocorals	269	269	Forest Range Officer, Wildlife Crime Control Cell & data Management Unit, Wildlife (Headquarters), Salt Lake, Sector-I, Block-AF, Kolkata-700 064, West Bengal

Sl. No.	Faunal Group	Material Type	No. of material received	No. of material identified	Name of the Department availed the services
193	Cnidaria	Scleractinian coral	700 gm specimen	700 gm specimen	Department of Forest, Rahpurhat Range, West Bengal
194	Cnidaria	Octocoral	8 kg 100 gm	8 kg 100 gm	Department of Forest, Rahpurhat Range, West Bengal
Total		787 specimens and 4177 photographs	751 specimens and 4177 photographs	120	



18

Meetings, Seminars,
Conferences & Workshops
attended by Scientists



ZSI scientists have actively participated in a range of scientific activities, including attending webinars, delivering talks and lectures, organizing workshops, and participating in meetings.



Meetings and Events attended by the Director, ZSI Dr. Dhriti Banerjee (from 1st April, 2024 to 31st March, 2025)

1. Graced the occasion of the 37th Annual Day Function of ICAR-Central Institute of Freshwater Aquaculture as Chief Guest on 1st April, 2024 at ICAR-CIFA Campus, Kausalyaganga, Bhubaneswa, Odisha. On this occasion, a Memorandum of Understanding (MoU) was inked between ZSI and ICAR-CIFA for collaborative research.
2. Inaugurated the "Main Entrance Gate" of the ZSI Estuarine Biology Regional Centre (EBRC), Gopalpur-On-Sea on 03rd April, 2024 and interacted with CPWD officials.
3. On 3rd April, 2024, a Memorandum of Understanding (MoU) between ZSI and Berhampur University, Odisha was signed and exchanged between Dr. Dhriti Banerjee, Director of ZSI and Prof. Geetanjali Das, Vice Chancellor of Berhampur University during the visit to regional centre, Estuarine Biology Regional Centre (EBRC), Gopalpur-On-Sea. The main focus of the MoU is collaboration in academic, research and other knowledge-building programmes. The MoU also includes the exchange of faculty and experts, thereby providing an interface between academia and practitioners.
4. Attended the GEF's meeting (Global Environmental Benefits) in virtual mode regarding the project LIFE-LINES - Leveraging Infrastructure for Ecosystems: Landscapes Integrated with Nature and Environmentally-friendly Solutions on 5th April, 2024. As a premier organization in faunal research, ZSI's involvement provided nuanced insights into the ecological ramifications of proposed interventions.
5. The 19th Research Advisory and Monitoring Committee (RAMC) meeting was held on 11th-12th April, 2024 at Panchmarhi, Madhya Pradesh. In her introductory remarks, Dr. Dhriti Banerjee welcomed the committee members of RAMC meeting and thanked the Chairperson, Dr. Nandita Chatterjee, IAS (Retd.), Former Secretary, Ministry of Rural Development; Former Additional Secretary, MoEFCC and all the members of RAMC for their acceptance and active participation.
6. Addressed the inaugural session of the DST-SERB sponsored Karyashala (High - End Workshop) - "Hands-On Training on Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring" on 15th April, 2024.
7. Felicitated the Chief Guest, Shri Janardan Prasad, Director General, Geological Survey of India, Kolkata and the Guest of Honour Lt. Col. Anant Sinha, Director, The Asiatic Society, Kolkata.
7. Attended the National Conference (DST-SERB sponsored) on "Zoology for Ecosystem and Human Health" on 22nd April, 2024 as the Chief Guest. Organised by the Department of Zoology, University of Kalyani, West Bengal from 22-23 April, 2024 the theme of the conference was Zoological Research for Ecosystem Restoration and better human health.
8. Had a meeting on 26th April, 2024 with the Chief Controller of Accounts (CCA), MoEF&CC at ZSI HQ to discuss the audit observations made during the Internal Audit of Accounts of ZSI, HQ, Kolkata from 22nd - 26th April, 2024 by the approval of Additional Secretary & Financial Advisor (AS&FA), MoEF&CC.
9. ZSI Annual Progress Monitoring Meeting of Senior Officers of HQ and Regional Centres was conducted from 29.04.2024 to 01.05.2024 at ZSI, HQ, Kolkata by the approval of Director, ZSI under the Chairmanship of Dr. K. Venkataraman (Former Director, ZSI) and external member, Dr. Urmi Chatterji (Professor, Calcutta University) through Hybrid Mode. During the meeting Scientific, Accounts and Administrative Progress made during the period from 1st April, 2023 to 31st March, 2024 were discussed. ZSI-EIACP Newsletter (2023-24) was released.
10. Attended alumni of Mahadevi Birla World Academy as a chief Guest on 4th May, 2024.
11. Met with Mr. Ravi Singh, Secretary general & CEO, WWF-India and Mr. Stuart Chapman, Leader, Tigers Alive Initiative to talk about effective and collaborative efforts for tiger and several projects like Project Tiger, Project Cheetah, International Big Cat Alliance (IBCA) on 4th May, 2024.
12. Director, ZSI and all scientists, staff and research scholars of ZSI paid tribute to the Nobel laureate Rabindranath Tagore on the occasion his 163rd birth anniversary on May 8.
13. Attended a meeting for monitoring Cetaceans for proposed Versova-Bandra Sea Link (VBSL) at VBSL Project Office in Mumbai on 10th May, 2024.

14. Attended a meeting regarding ATS 2024 (Animal Taxonomy Summit) preparatory work at Coimbatore on 11th May, 2024.
15. Along with Dr. C. Raghunathan, Scientist-F, Dr. C. Sivaperuman, Scientist-E and other officers, Director, ZSI attended a meeting with Ms. Supriya Sahu, Additional Chief Secretary, Government of Tamil Nadu to discuss allocation of land for the establishment of Regional Centres of ZSI on 14th May, 2024 at Fort St. George, Chennai.
16. On the occasion of the International Day for Biological Diversity 2024 (IBD) a special interview of Director, ZSI was broadcasted on 22nd May, 2024 by All India Radio (AIR). The broad scope of the theme was underlined, connection with nature conservation, and environmental education, as well as the role of trees in the countryside and cities.
17. On May 20, 2024, Director ZSI, attended a scheduled meeting at the Natural History Museum (NHM) in London, with Dr. Tim Littlewood (Executive Director of Science), Dr. John Jackson (Head of Science Policy and Communication), Dr. Roberto Portela Miguez (Senior Curator in Charge, Mammals), Dr. Patrick Campbell (Senior Curator, Reptiles), Dr. Tom White (Senior Curator, Non-Insect Invertebrates), Dr. Ranee Om Prakash (Senior Curator-Flowering Plants), Isabel Davis (Research Theme Leader, Collections and Culture), Ms Helen Robertson (Head of Postgraduate Studies, NHM) and Dr. Jesus Hernandez. The meeting was held to discuss ongoing projects, potential collaborations, and recent advancements in the field of natural history and museum curation and the potential of ZSI working with NHM on digitizing the faunal collection in ZSI and in NHM in order to bring out the complete virtual fauna of India.
18. Addressed the World Environment Day programme encouraging awareness and action to protect our environment and emphasized working collectively towards plantation to a greater extent. Several events were organised by ZSI Training & Extension Division, Kolkata jointly with EIACP Centre on Biodiversity (Fauna), ZSI from May 31 to June 5, 2024 on the theme adopted for this year- 'Land restoration, Desertification and Drought resilience'. Several events were held to spread awareness in the week-long celebration including Plantation Programme, Meditation Camp, Painting Competition and Elocution Competition. EIACP Centre on Biodiversity (Fauna), ZSI had also organized a National Webinar on 'Soil Invertebrates and Restoration Ecology' on 3rd June, 2024 to spread awareness on the theme. Chief Guest - Ms. Ajanta Dey, Joint Secretary & Programme Director, Nature Environment and Wildlife Society (NEWS) delivered a lecture on "Landscape Restoration- Ecosystem based approach and nature based solution". Director, ZSI distributed plants and certificates to the winners and the participants of competition.
19. Presided the Departmental Promotion Committee (DPC) Meeting on 6th June, 2024 at the Hqs., ZSI along with Departmental Screening Committee (DSC) members.
20. On 11th June, 2024, Director ZSI attended as Guest of Honour for the inauguration of a Plantation Drive Initiative to plant 100 saplings at New Town Area, Kolkata with participation of children by Siddha Group, aimed at enhancing and promoting environmental sustainability.
21. Attended an online meeting of the Governing Body, NCSM (National Council of Science Museums) on 17th June, 2024.
22. Attended an Administrative Meeting at MoEFCC, New Delhi on 13.06.2024.
23. Attended an Administrative Meeting at MoEFCC, New Delhi on 20.06.2024.
24. Director ZSI with officials met the press in a news conference in Kolkata on 26.06.2024 and spoke regarding the celebration of 109th foundation day of ZSI (which was later held on June 30). Director, ZSI told the press about Animal Taxonomy Summit 2024 organized from 1st July to 3rd July with 350 researchers from four countries. Director, ZSI also told the press that saplings will be given to everyone on the occasion and a tree plantation drive, 'Ek Per Maa Ke Naam' would be undertaken on June 30.
25. The 109th Foundation Day of Zoological Survey of India (ZSI) was celebrated on 30th June, 2024 with a range of activities. The celebration of ZSI Day was held at the Biswa Bangla Convention Centre, Newtown, Kolkata. During the welcome address, Director ZSI welcomed the dignitaries and highlighted the significant events. The event was graced by Shri Bhupender Yadav, the Hon'ble Minister of the Ministry of Environment, Forest and Climate Change, Government of India (as the chief guest) and Shri Jitendra Kumar, IFS, the Director General of Forests and Special Secretary of the Ministry of Environment,

- Forest and Climate Change, Government of India (as the guest of honour). The programme commenced with a tree planting initiative named Ek Ped Maa Ke Naam. More than 1500 individuals participated in the 109th ZSI Day celebration, including distinguished scientists, Vice-Chancellors of various institutions, colleges and university professors, Directors of national institutes, conservationists and other members. Hon'ble Minister, Shri Bhupender Yadav unveiled several publications from the Zoological Survey of India and the Botanical Survey of India, including Animal Discoveries-2023 and Plant Discoveries-2023. Winners of events organized during World Biodiversity Day-2024 and World Environment Day-2024 were awarded with trophies. A total of 10 Memorandums of Understanding (MoU) were signed between ZSI and different universities and institutions. Director General of Forests, Shri Jitendra Kumar, IFS launched the International Society of Zoology (ISZ) and delivered a special address. Hon'ble Minister Shri Bhupender Yadav launched the Checklist of Indian Fauna Portal, the first of its kind globally containing the names of all species across 121 groups found in India. Shri Yadav also inaugurated the Animal Taxonomy Summit-2024 (ATS 2024) and delivered the opening speech. The inaugural program also featured a live telecast of the Hon'ble Prime Minister of India, Shri. Narendra Modi's MANN KI BAAT.
26. Director ZSI addressed the inaugural session of Animal Taxonomic Summit-2024 and welcomed the eminent scientists and the guests. ATS-24 was organised by ZSI from 30th June 2024 to 3rd July 2024. During the summit, deliberations were held under three broad themes, 1) Taxonomy, Systematics and Evolution, 2) Ecology and Animal Behaviour; 3) Biodiversity and Conservation. More than 350 delegates from four countries, including Natural History Museum London participated in ATS 24. The three-day ATS-24 witnessed more than 20 plenary/ lead lectures of eminent speakers/ experts from India as well as abroad and 142 oral/poster presentations. Director, ZSI chaired the Panel Discussion and Recommendations themed "Taxonomy – Way forward" in Animal Taxonomic Summit-2024 on 3rd July 2024.
 27. Director, ZSI was felicitated by the Birdwatchers' Society in a Bengal Birders Meet 2024 on 22nd July, 2024 in Eastern Zonal Cultural Centre (EZCC), Purbashree, Kolkata.
- The prime focus included: Highlighting the Bird Diversity of West Bengal, the use of eBird as tool by Scientists & Citizen Scientists and, mapping of the birds of West Bengal using eBird as a tool.
28. Attended as Chief Guest in Country Women's Association of India's (CWA) exhibition on Friday 26th July, 2024 at Nari Seva Sangha, Kolkata committed to improve the lives of the underprivileged urban, rural, tribal women and children of India.
 29. Conducted a Field Survey tour to Birbhum & Burdwan districts, West Bengal for a period of five days from 26th July 2024 to 30th July 2024 under the approved combined programme of Research work Project titled "Faunal Composition of Tropical Dry Deciduous Forest, Phase I: West Bengal, 2024-25" to make collections with ZSI Scientists and expertise covering all faunal groups and collections.
 30. Attended as Guest Speaker for the talk show on "Climate Change and We" at Fest5 International Film Festival held at Bhasha Bhawan, National Library Auditorium, Kolkata on 03rd August, 2024. Following the screening of German documentary "System Change," a talk show was also held featuring WBPCB Chairman Dr. Kalyan Rudra, and former Chief Wildlife Warden of West Bengal Pradeep Vyas. They discussed the profound impacts of climate change on human beings, biodiversity, and wildlife, with a focus on big cats.
 31. The Recreation Club of ZSI celebrated the 3-year completion of Dr. Dhriti Banerjee, the first Woman Director of ZSI. All Regional Centres of ZSI joined this felicitation ceremony. It was announced that henceforth 6th August will be celebrated as the ZSI Women's Day.
 32. Attended a High Powered Steering Committee (HPSC) meeting of NIRANTAR, on 09th August, 2024 in MoEFCC, New Delhi. Further, 'Fauna of India Checklist Portal' developed by ZSI was also showcased in the ministry during the meeting.
 33. Director ZSI as member of Governing Body, National Council of Science Museums (NCSM) attended the NCSM members meeting for the selection of next set of the directors in NCSM, Kolkata on 13.08.2024.
 34. On the occasion of 78th Independence Day celebrations, Director ZSI presented saplings to 50 underprivileged children as part of Ek Ped Maa Ke Naam Initiative.
 35. Ms. Leena Nandan, Secretary, MoEFCC, Govt. of

- India visited ZSI Kolkata on 16th August, 2024 to inaugurate the 'Centre for Wildlife Forensics & Conservation Genetics (C-WFCG)' facility to combat wildlife crime & protect India's biodiversity. After the inauguration, Director ZSI convened a meeting with the honourable Secretary, MoEFCC including all the Officers-In Charge of Regional Centres.
36. Director ZSI addressed an Inception Workshop-cum-Field Trial on Tagging of Horseshoe Crabs along Odisha Coast organized on the aegis of ZSI-OFD-Collaborative project on Horseshoe Crab jointly organized by Zoological Survey of India & Wildlife Wing of Odisha Forest Department on 18th August 2024 at Balasore, Odisha.
 37. Director ZSI addressed the inaugural Session of National Webinar on World Mosquito Day-2024 on 20th August, 2024 through virtual mode organised by EIACP Centre on Biodiversity (Fauna) ZSI, Kolkata.
 38. For advancing conservation strategies in the Indian Himalayan Region, the Zoological Survey of India hosted a One-day consultative Workshop under the NMHS (LG)-funded Phase-II Project titled "Conservation of Threatened Mammalian Fauna of the Indian Himalayan Region Through Scaling Up Long-Term Monitoring, Securing Corridors, and Capacity Building" on 22nd August, 2024 in Guwahati. Discussions were focused on establishing biodiversity corridors, understanding large mammals' genetic composition, and assessing the effectiveness of protected areas in the IHR. Director, ZSI, spoke on ZSI's commitment towards tackling the challenges faced by threatened mammalian fauna in the IHR. She also emphasised the importance of involving local communities, forest staff, and students in conservation efforts and building capacity among stakeholders. Dr. S. Sathyakumar, Scientist-G & Registrar, WII, Dehradun, who was the Chief Guest underscored the need for integrating local forest departments and researchers in long-term biodiversity monitoring. The event concluded with valuable input from stakeholders, refining the project's objectives and implementation strategies for successful conservation outcomes in the region.
 39. Addressed virtually to a One-day National Seminar "Vikasit Bharat @2047 Ke Liye Vigyan Men Rajbhasha" on 28th August, 2024 jointly organized by Central Region Regional Centre, Zoological Survey of India, Jabalpur and Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, Chhattisgarh.
 40. Attended a Regional Workshop on Conservation and Wise-Use of Wetlands under Sahbhagita Mission for Eastern Region States at New Town, Kolkata on 29th August, 2024.
 41. Conferred with the Honoris Causa Degree of Doctor of Science in the field of Life Sciences by Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, Chhattisgarh on their 5th Convocation dated August 31, 2024 in presence of Hon'ble Governor of Chhattisgarh, H. E. Shri Ramen Deka; Justice Shri Prashant Kumar Mishra (Judge, Supreme Court of India); Shri Vishnu Deo Sai, Hon'ble Chief Minister, Government of Chhattisgarh; Shri Tokhan Sahu, Hon'ble Minister of State for Housing & Urban Affairs, Govt. of India; Shri Arun Sao, Hon'ble Deputy Chief Minister, Govt. of Chhattisgarh.
 42. During this visit of Director ZSI to ABVV, Bilaspur, an MoU signing ceremony was organized between Zoological Survey of India and Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur to enhance scientific research and academic collaboration.
 43. Attended an online meeting of Constitution of Committee for Wildlife Week Celebration-2024 organised by Wildlife Division of MoEFCC on 3rd September 2024.
 44. As the Publication-in-Chief of the Publication Committee, Director, ZSI chaired the meeting regarding opening of e-rendering, Quotations and Government e-Market Place (GeM) for Publication Division on 3rd September, 2024.
 45. Had an interactive session with the US Consul General, Kathy Giles-Diaz in Kolkata on September 4, 2024. The occasion was to celebrate the successful Indo-US collaboration on climate and clean energy for which a reception was hosted by the US Consul General. Biodiversity management, species and habitat conservation and green initiatives taken by India were among the subjects that featured in the discussions.
 46. On 16th September, 2024, Director, ZSI delivered a lecture on the topic of "Empowering Conservation: Entrepreneurship in In-situ and Ex-Situ Solutions" in a one-day long conservation under an ongoing project in the University of Calcutta viz. RUSA (Rashtriya Uchchatar Shiksha Abhiyan): Entrepreneurship Workshop with students/research scholars in the Alipore Zoological Garden, Kolkata.
 47. World Ozone Day (September 16) was

- organized by ZSI Training & Extension Division jointly with EIACP Center on Biodiversity (Fauna) Zoological Survey of India on 17th September, 2024 with launching of Swachhata Hi Seva 2024 Campaign in Hqs.
- Director, ZSI addressed to the participants highlighting global efforts to protect the ozone layer identified the various activities to create awareness among the masses.
48. Chaired a Progress Monitoring Committee Meeting to analyze the progress made by the Senior Zoological Assistants during their probationary period who have joined after November 2022. The meetings were conducted from 18th to 20th September, 2024 in HQs.
 49. Had an interactive session with the Dr. Andrew Fleming, British Deputy High Commissioner, East and Northeast India and with other delegations on Climate & Energy on September 18, 2024 in Kolkata.
 50. Director, ZSI joined 141st meeting of the Governing Body, NCSM held on 19.09.2024 at Raman Science Centre & Planetarium, Nagpur.
 51. As part of Swachhata Hi Seva 2024 Campaign, on 20th September, 2024 the Recreation Club of ZSI organised an event 'Swachh Khana Swasth Rehna' at Kolkata in which sattvic vegetarian food was served to all the employees of ZSI to promote healthy lifestyle. Director, ZSI served swachh food and urged employees to eat healthy and adopt healthy lifestyle.
 52. Addressed the Annual General Meeting of Tea Research Association (TRA Toklai) as the Guest of Honor on 20th September, 2024 in Kolkata. The meeting was attended by the officials of Commerce Ministry, Assam and West Bengal Government, Tea Board of India, FSSAI, Scientists and tea industry stakeholders of North India.
 53. Addressed a Capacity Building Programme focused on "Socio-Economically Important of Insects for Improving Livelihood" organised by Training & Extension Division ZSI on 24.09.2024 in ZSI Hq. The guests from University of Calcutta, CSRTI Berhampur and ICAR KVK, Murshidabad also shared their thoughts and suggestions on the topic.
 54. Dr. Dhriti Banerjee, Director, ZSI Attended as Judge for the event Nirmaan as part of an Inter School Fest 'Abhigayata 2024' on 26th September 2024 at Birla Bharati school, Kolkata.
 55. As a part of Swachhata Hi Seva 2024 campaign, on 27th September 2024, the Zoological Survey of India under the Ministry of Environment, Forest & Climate Change, Government of India, Government of India, organised a Mega Cleanliness Drive at Prinsep Ghat, Kolkata which was flagged off by Dr. Andrew Fleming, Deputy British High Commissioner to East and North East India and eminent Actor Smt. Gargee Roy Chowdhury. Shri Shiladitya Chowdhury, entrepreneur and Wildlife Enthusiast, Prof. Ayaz Shafi from IQ City WUSB and Dr. Dhriti Banerjee, Director, ZSI along with the scientists and staffs of ZSI and 200 management graduates from IQ City United World School of Business, Kolkata took part in this mega drive. Director, ZSI addressed the gathering. As part of the Mega Cleanliness Drive, stretches of Hooghly River bank and surroundings were cleaned. Approximately 350 people participated in this drive. The waste collected was handed over to Hulladek Recycling for waste management and recycling.
 56. Attended as chief guest to the Annual Day Programme of Ruby Park Public School on 28th September, 2024 at Science City Auditorium, Kolkata.
 57. On 30th September, 2024, Dr. Dhriti Banerjee was part of a discussion in the DD Bangla programme "Parichannatar Angikar" on Swachhata Hi Seva-2024 Campaign (being observed from 17th September to 01st October 2024). She elaborated the ZSI activities and the commitment to the campaign goals and the intent to make the campaign wider and deeper under this campaign.
 58. As a part of Swachhata Hi Seva 2024, Sansthanon Swachhata on October 1st, 2024, Director (ZSI) inaugurated the installation of e-waste bins to dispose e-waste and Smart Bin to dispose Plastic pet bottles provided by Hulladek Recycle at ZSI, Kolkata. The Smart bins would give a beeping signal once the bins are 60% filled up to enable Hulladek Recycle to collect the waste for recycling and upscaling. This step was taken for proper disposal, recycling and upscaling of e-waste and Plastic pet bottles generated in the office.
 59. As a part of Swachhata Hi Seva 2024 observed from 17th September to 01st October, 2024 with the theme of 'Swabhav Swachhata Sanskaar Swachhata', Zoological Survey of India conducted 16 Health Camps for more than 350 Safai Mitras and Contractual Staff across India. Check up and diagnostic tests

- were done by CGHS empanelled Hospital.
60. On 2nd October 2024, Dr. Dhriti Banerjee, Director, ZSI was the Guest of Honour at the 7th edition of Disha Samman 2024 organized by Disha Eye Care at the Biswa Bangla Convention Centre, New Town which honours the achievements of visually challenged individuals and supportive organizations. Disha Samman which is presented by Disha Eye Hospitals aimed to honour both individuals and organisations that work relentlessly for the welfare of the visually challenged persons.
 61. Zoological Survey of India celebrated National Wildlife Week from October 2 - 8, 2024. The theme for the year was "Wildlife Conservation Through Coexistence".
 62. Rajbhasha Prize Distribution Ceremony was held on 04.10.2024 at ZSI HQs. Director ZSI distributed the prizes to the winners of Hindi Competition in Hindi Pakhwada 2024 held from 11th September to 25th September, 2024 and motivated staff to increase the participation.
 63. Attended a Consultative meeting with Indian Institute of Tropical Meteorology and Thematic Working Groups for National Adaptation Plan (NAP) under the chairmanship of Economic Advisor, MoEFCC on 7th October, 2024 in virtual mode. The agenda of the meeting was to discuss climate data/projection/scenario requirement by each working group, which are essential for sectoral impacts, risk and vulnerability assessments.
 64. Attended a meeting in virtual mode regarding Creation of the Ridge Interpretation Center on 15th October, 2024 under the chairpersonship of Joint Secretary, MoEFCC to discuss the way forward for the concept note on Ridge Interpretation Center in line with the request of Delhi Metro Rail Corporation (DMRC).
 65. The Half Yearly Progress Monitoring Committee meeting of the ZSI HQ's Office and Regional Centres was conducted from 23rd October, 2024 to 25th October, 2024 at the Lalit Great Eastern, Kolkata. Organised by Sunderban Regional Centre, Canning to evaluate the Scientific, Accounts and Administrative Progress made during the period of 01.04.2024 to 30.09.2024 under the Chairmanship of Dr. K. Venkataraman, Former Director, ZSI and External Member Dr. Urmi Chatterji, Professor, University of Calcutta, Director ZSI presented Half-Yearly Progress Report from April 2024 to September 2024 and reviewed completed and ongoing research programmes of ZSI. Followed by the remarks of the Chairman, External Expert, Member Secretary of Half-Yearly Progress of Research Monitoring Committee and the Officers-in-Charge of Regional Centres and Headquarters made the presentation about the scientific progress of their respective Regional Centres/ Divisions/Sections during the period.
 66. 20th Research Advisory and Monitoring Committee (RAMC) meeting was held on 4th & 5th November, 2024 at Kodaikanal, Tamil Nadu. The meeting was attended by 18 members including 7 ex-officio members and the Member Secretary. Director ZSI presented the progress of activities in detail made by ZSI during April 2024 to September 2024 on new identified species, taxonomic studies and surveys and highlighted the revised primary and secondary objectives of the ZSI.
 67. The Zoological Survey of India (ZSI) in collaboration with the University of Ghana and the Ghana Wildlife Society hosted a two-day Capacity Building Workshop titled "Building Entrusted Networks and Strengthening Law Enforcement with a Prime Focus on Safeguarding Pangolins" at the University of Ghana, Accra, Ghana from 4th-5th November, 2024 under the objective of strengthening wildlife forensic capabilities in South Asia and West Africa with a specific focus on pangolin conservation. This workshop was part of a project funded by the Convention on Biological Diversity (CBD) under the Bio-Bridge Initiative (BBI). The workshop was attended by over 40 participants with diverse expertise in genetics, microbiology, forensic science, and wildlife conservation. This was a first-of-its-kind workshop for overseas monitoring of Pangolins.
Director ZSI addressed the workshop and said, "This collaboration between India and Ghana is a prime example of the cross-border efforts required to effectively combat illegal wildlife trade and working to build a global network for wildlife conservation and this workshop is an important step forward in that direction." The workshop successfully equipped participants with the skills and knowledge to address wildlife crime using advanced forensic tools. It fostered intercontinental collaboration and laid the groundwork for future joint efforts between India and Ghana to conserve endangered species like pangolins. This event demonstrated ZSI's

- commitment to global wildlife conservation and its leadership in addressing illegal wildlife trade through science-driven solutions.
68. On 14th November, 2024, Director ZSI joined the Monitoring Committee Meeting through VC proposed to oversee implementation of Environmental Management Plan for development of Greenfield International Airport (4000 Peak Hour Passengers-PHP) at Great Nicobar Islands, Nicobar District by Andaman and Nicobar Islands Integrated Development Corporation (ANIIDCO) under the holistic development of Great Nicobar Island held under the chairmanship of Chief of Staff, Andaman & Nicobar Command in the Secretariat, A&N Administration.
 69. Chaired a one-week compulsory training course for officers of Indian Forest Service (IFS) on 'Coastal and Marine Biodiversity of Island Ecosystem' at ZSI Andaman & Nicobar Regional Centres, Port Blair from 11th to 15th November, 2024. The training course was sponsored by the Ministry of Environment, Forest and Climate Change, Government of India. A total of 21 senior level Indian Forest Officers (IFS) participated from various States & Union Territory of India.
 70. Director ZSI as member of the Governing Body of National Council of Science Museums attended the 142nd meeting of the Governing Body of NCSM held on 18.11.2024.
 71. Director ZSI as the Editor-in-Chief addressed the Publication Committee Meeting virtually on 18th November, 2024 about discussing the Pending Manuscripts, Formation of new Editorial committee, their role & decision regarding few Manuscript (APAR) and improvement of Publications.
 72. Director ZSI held a discussion meeting with ZSI scientists on 19th November, 2024 to discuss the agenda and concepts of the IUCN meeting.
 73. Director, ZSI organised a meeting on 'IUCN Red Listing of species Training for 2nd batch of ZSI & BSI scientists' and 'Long Term Monitoring of Species' held on 19th November 2024 at ZSI/ HQs, Kolkata. Scientists of ZSI & BSI attended the meeting and offered their suggestions in conducting training and monitoring working plans in broad perspective. During the meeting, matters discussed included: IUCN Red List Training (regarding the IUCN Red List Training scheduled to occur from 11th to 15th December 2024 at the Acharya Jagdish Chandra Bose Indian Botanic Garden following a brainstorming session on 11th December 2024) and Long Term Monitoring of Species (ZSI and BSI will make in-house discussion with their scientists about the scope, feasibility and working plan of target species to bring out a joint proposal on Establishment of Long-Term Monitoring Plots in 10 Biogeographic Zones. ZSI and BSI will check their annual programme of research (completed and on-going) in the 10 Biogeographic Zones to develop a robust plant based on the available data).
 74. A farewell ceremony in honour of PAO BSI/ ZSI, Kolkata was held at ZSI HQs on 20th November, 2024. Director ZSI bid farewell and congratulated to Mr. Deepak Kumar Sinha on behalf of ZSI staff and scientists.
 75. Zoological Survey of India, Andaman & Nicobar Regional Centre conducted a Three-Day Training workshop on Coastal and Marine Biodiversity of Island Ecosystem under the Training of Personnel of Other Stakeholders sponsored by the Ministry of Environment, Forest and Climate Change, Government of India from 21st – 23rd November 2024 organised by ZSI Andaman & Nicobar Regional Centre, EIACP Centre on Islands Biodiversity, Andaman & Nicobar Islands. Director ZSI greeted the dignitaries and guest invites emphasizing the role of Zoological survey of India, Andaman & Nicobar Regional Centre in organizing various level of training courses and also proposed for Three-Day Workshop Training of Other Stakeholders for The Year 2025 - 2026 under The Scheme Forestry and Capacity Building.
 76. On November 21, 2024, Director ZSI as member of the Monitoring Committee, attended a meeting to discuss the biodiversity related matters under the holistic development of Great Nicobar Island in respect of integrated project in Great Nicobar Island by the Andaman and Nicobar Islands Integrated Development Corporation (ANIIDCO).
 77. On 23rd November 2024, Director ZSI addressed the valedictory session of the three-day training workshop on Coastal and Marine Biodiversity of Island Ecosystem under the "Training of Personnel of Other Stakeholders" Sponsored by Ministry of Environment, Forest and Climate Change, Govt. of India organised by Zoological Survey of India, ANRC Port Blair. Sharing her thoughts Director ZSI said that ANRC/ZSI, Port Blair will play an important role in knowledge-based capacity building program of marine ecosystem. This program

- will focus the understanding the role of the coastal ecosystems and its vital importance in areas such as bio-diversity, food security, climate change and others.
78. Attended an administrative meeting to review Group A officers of BSI and ZSI under FR 56 (j) / (l) and Rule 48 of CCS (Pension) Rules, 1972 (now rule 42 of CCS (Pension) Rules, 2021) was held on 3rd December, 2024 under the Chairmanship of Secretary EF&CC along with JS(NP).
 79. Dr. Dhriti Banerjee visited Natural History Museum, London on 05/12/2024 and had useful discussions regarding the way forward and strengthening collaborations in terms of capacity building and staff exchange. She was accompanied by Riafat Raina- Scientist E, ZSI, Jodhpur office who has been working with Paul Williams on researching bumble bees from the Himalayas and Ranee Prakash-Senior Curator-Flowering Plants at NHM. Dr. Banerjee met Tim Littlewood (Executive Director of Science) and John Jackson (Head of Science Policy and Communication) and discussed at length about why digitising is important and contributions of biodiversity data from India to GBIF and how NHM can help ZSI and GBIF in overcoming the challenges faced. Areas in capacity building and skills sharing were also discussed. Dr. Banerjee invited a couple of colleagues to the upcoming ZSI conference in July in Kolkata. There was also a good discussion on roping in corporate companies towards digitisation. Dr. Banerjee also met Anjali Goswami (Merit researcher) and discussed capacity building in CT Scanning. There were also useful discussions on evolution of life and having Palaeontologists posts in ZSI. Talks regarding the British High Commissioner in Kolkata supporting biodiversity conservation and how they can help NHM and ZSI (as well as BSI) to be explored further by Dr. Banerjee at Kolkata and by John Jackson in the UK. Dr. Mark Watson (the next President of LinSoc), currently working at Royal Botanic Garden Edinburgh also joined the meeting with Anjali Goswami and Dr Banerjee and how LinSoc can work together with NHM and ZSI. It was decided that Dr. Watson would be presenting a talk on red pandas from Sikkim during his upcoming visit to Kolkata in January 2025. Internally, NHM will draft some capacity building programmes which can be then rolled out after detailed costs, logistics and consultations with staff at NHM and ZSI as well as BSI. Other staff such as Erica McAlister (Principal Curator-Collections), Paul Williams (Principal Researcher), Alberto Zilli (Senior Curator in Charge, Lepidoptera) and Andrea Hart (Library Special Collections Manager) also met Dr. Banerjee. A visit by Andrea Hart will to ZSI in Feb 2025 for looking at the collections and presenting a talk was talked about. The day ended on a positive note with things discussed to be explored further.
 80. On December 11, 2024, Dr. Banerjee was invited to a session on IUCN National Red Listing Assessment of Indian Flora and Fauna, jointly organized by the Zoological Survey of India (ZSI) and Botanical Survey of India (BSI) at the Central National Herbarium, BSI, AJC Bose Indian Botanical Garden, Howrah. The session was chaired by Ms. Nameeta Prasad, Joint Secretary, Ministry of Environment, Forest and Climate Change (MoEFCC), Government of India and it was attended by 12 expert members and 20 scientists each from BSI and ZSI in addition to representatives of the IUCN country office and CSS-India.
 81. Dr. Banerjee was invited to a meeting on Gender-Responsive Adaptation Strategies for National Adaptation Plan (NAP) under the Chairpersonship of the Economic Advisor, MoEFCC was held on 13th December, 2024. The meeting was approached under - Disproportionate Impacts of Climate Change on Women and Girls; Empowered Women Are Key to Successful Climate Action; Rationale of Gender-responsive National Adaptation Plan (NAP) Process; Entry Points of Gender Responsive Elements in NAP; and Suggested Sector-specific Examples of Gender-responsive Adaptation Priorities. This meeting was in reference to the ongoing preparation for developing NAP for India by the Ministry of Environment, Forests & Climate Change (MoEFCC).
 82. Dr. Banerjee attended a Review meeting on Mission Recruitment was conducted in hybrid mode by the MoEFCC on 21st December, 2024.
 83. Director ZSI attended the 26th Scientific and Technical Advisory Group (STAG) meeting of National Mission on Himalayan Studies (NMHS) on 23rd December, 2024 and presented a New Project Proposals (21) under NMHS-Project Grant 2024-25 in context of project proposal submitted under the "2nd Call of New Project Grant under NMHS 2024-25" for funding support under the identified broad thematic areas/ thrust areas of NMHS.

84. A meeting was convened at ZSI/HQ, Kolkata on 24th December 2024, as a follow-up meeting to undertake the IUCN National Red Listing Assessment of Indian Fauna as an integral component of the Annual Research Programme of ZSI, with an initial focus spanning for next three years and a potential extension until 2030. During the meeting taxa coordinators were decided among the interested scientists of ZSI by the Competent Authority.
 85. On January 2, 2025, Director, ZSI attended a meeting virtually for the preparations for World Wetlands Day 2025 celebrated every year on February 2nd. The meeting was chaired by the Honorable Minister of State for the Ministry of Environment, Forest and Climate Change (MoEF&CC), Govt. of India. The progress made regarding organizing various activities and events planned for the World Wetlands Day 2025 were reviewed and focused on the importance of adhering to the theme of World Wetlands Day 2025: "Protecting wetlands for our common future."
 86. On 6th January 2025, Director ZSI organized a Scrutiny Committee Meeting with ZSI scientists regarding the New Research Proposals for the Annual Programme of Research (2025-26) in a hybrid mode at ZSI Headquarters. Mainly discussion was focused on innovative approaches to biodiversity conservation and taxonomy, with an emphasis on fostering impactful research initiatives aiming to support high-quality research and strengthen the institution's role in biodiversity conservation and sustainable development.
 87. Director, ZSI attended a meeting online to discuss the Standing Finance Committee (SFC) Memo and the presentation to be made to Hon'ble Lt. Governor. The meeting was held on 6th January, 2025 at Conference Hall, Office of Deputy Commissioner (SA) in hybrid mode.
 88. In the connection to the previous Scrutiny Committee Meeting held on 06.01.2025, the 2nd Scrutiny Committee Meeting of New Research Proposals for the Annual Programme of Research 2025-26 was conducted at ZSI Hqs on 9th January, 2025 under the supervision of Dr. Dhriti Banerjee, Director ZSI to discuss the proposals supporting ZSI's commitment for innovative approaches to biodiversity conservation and taxonomy.
 89. On January 10, 2025, as part of Mission LIFE: Adopt a Healthy Lifestyle, the Zoological Survey of India (ZSI) celebrated its Annual Sports Day organized by the ZSI Recreation Club under the guidance of the Director, Dr. Dhriti Banerjee. The event took place at Rabindra Sarobar Stadium, Kolkata. Distinguished attendees included Dr. C. Raghunathan, Dr. Guru Pada Mandal, and special guest Professor Ayaz Shafi from IQ City United World School of Business, Kolkata. The celebration commenced with an invigorating warm-up session led by fitness coach Mr. Sujon Roy, setting the tone for a day of health and vitality. Participants actively took part in a variety of engaging activities, such as hitting the wicket, spoon and marble race, 100-meter race, walkathon, and other exciting events, fostering fitness, teamwork, and camaraderie among all present.
 90. Attended a meeting on IUCN National Red Listing Assessment of Indian Flora and Fauna on 15th January, 2025 at AJC Bose Indian Botanical Garden, Howrah.
 91. Director of the Zoological Survey of India along with scientists & staff had a visit to the MoEFCC, New Delhi on 20th January, 2025 for the discussion on "Scientific Progress of ZSI" with the officials at MoEFCC.
 92. Dr. Dhriti Banerjee, Director of ZSI with all ZSI scientists and staff paid tribute to Netaji Subhas Chandra Bose on his 128th birth anniversary on January 23, 2025 and remembered his enduring legacy and the courage in the fight for India's independence.
 93. Regarding the preparation of upcoming ATS 2025 in July 2025, a discussion meeting with the ZSI scientists was conducted by the director, ZSI at Hqs. on 23rd January, 2025.
 94. On 23rd January 2025, Dr. Dhriti Banerjee, Director of ZSI received foreign delegations at ZSI hqs from the Royal Botanic Garden, Edinburgh (RBGE), Dr. Mark F. Watson Hon FLS, Taxonomy & Macroecology Lead, and Ms. Claire Banks, Botanical Illustrator during their visit to Kolkata to consult the natural history drawings in the Fleming collection and other associated manuscripts for research purpose.
- On 26th January, Dr. Dhriti Banerjee, Director of the Zoological Survey of India (ZSI), led the 76th Republic Day celebration at the Kolkata headquarters. She unfurled the National Flag and felicitated the chief guest Mr. Subrata Banerjee, Pay & Account Officer, Kolkata. As part of Mission LiFE - Adopt Healthy Lifestyle, a Lifetime Achievement Award for Sports was presented to Shri Deepak Kumar Roy, Retired ZSI Employee for his success

- in National and State Athletics. Director ZSI distributed the certificate of appreciation to the dedicated volunteers of "Tiranga ki Shaan" for their invaluable service of picking-up and collecting mutilated flags from local areas every year after the celebration of 26th January & 15th August and disposing of them for recycling in the honor of the National Flag. she felicitated ZSI employees who volunteered their time and efforts to make ZSI Sports Day a resounding success. She also felicitated with a certificate of appreciation to Mr. Sujon Roy, Fitness Coach who led the event with a warm-up session. She then released the ZSI Annual Report 2023-2024 along with the ZSI scientists Dr. C. Raghunathan, Scientist-F, Dr. Guru Pada Mandal, Scientist- 'E' Dr. Anjum Rizvi, Scientist- E, Dr. Souvik Sen, Scientist-D, Dr. Kamalakannan M. Scientist-C and the chief guest Mr. SH Banerjee, PAO & the Special Guest Prof. Ayaz A. Shafi. Dr. Anjum Rizvi, Scientist- E, ZSI highlighted salient features of the annual report. In this continuation, Animal Taxonomy Summit (ATS) Website 2025 release & the announcement of a "Hackathon" of 110 hours for new ideas related to Conservation of Biodiversity were also highlights of the event. Dr. Tamal Mondal, Scientist-D briefed about the last three Animal Taxonomy Summits that were successfully conducted by the ZSI. Afterwards, Director ZSI launched the ATS 2025 website (to be held in commemoration of 110th ZSI Day in Kolkata, India). She also launched the Hackathon website on Biodiversity Conservation that aims to foster innovative, technology-driven solutions to tackle the pressing biodiversity challenges. This is scheduled to be held on 30th June 2025 in Kolkata and will be the first of its kind of hackathon in India. In her Republic Day speech, Dr. Banerjee acknowledged the constitution's creators and ZSI's 109-year legacy, emphasizing the use of technology for conservation in line with the "Swarnim Bharat- Virasat aur Vikas" theme.
95. Dr. Dhriti Banerjee, Director ZSI addressed the inaugural session of the Capacity Building programme on "GIS Tools, DNA Barcoding and Forensic studies" during 27th - 31st January 2025 organized by the Training & Extension Division, Zoological Survey of India, Kolkata. Chief Guest Prof. Susanta Chakraborty, Hon'ble Vice-Chancellor, Vidyasagar University.
 96. Director ZSI attended a meeting to discuss the pace of expenditure, additional demand of funds, anticipated savings and surrenders with respect to Revised Estimate (R.E.) 2024-25 which was held under the Chairmanship of AS&FA, MoEF&CC with all the concerned Authorities/ Divisional Heads on 29.01.2025 through video conference.
 97. Dr. Dhriti Banerjee chaired the Monthly Progress Monitoring Committee Meeting for the month of January 2025 for both Regional Centres and Headquarters conducted on 30th & 31st January 2025 at ZSI HQs.
 98. Dr. Dhriti Banerjee, Director ZSI addressed the valedictory session of the Capacity Building Programme on "GIS Tools, DNA Barcoding and Forensic studies" during 27th - 31st January 2025 organized by the Training & Extension Division, Zoological Survey of India, Kolkata.
 99. Fauna of Ropar Wetland, Punjab (A Conservation Reserve and RAMSAR Site), published by the Director ZSI, Dr. Dhriti Banerjee, was released by Shri Kirti Vardhan Singh, Hon'ble Minister of State, MoEF&CC, during the inaugural session of Regional Workshop for Restoration and Integrated Management of Wetlands, organized at Ayodhya on 1st February 2025.
 100. At the 211th Foundation Day of the Indian Museum on 2nd February, 2025, Dr. Dhriti Banerjee graced the occasion as the Chief Guest and delivered the prestigious Nathaniel Wallich Memorial Lecture in the Indian Museum, Kolkata, named after the famous botanist Nathaniel Wallich (1786-1854), the founder of the Indian Museum in 1814. She shared her insights on "From Wallich to the Digital Age: The Evolution of Natural History Collections in India". In her lecture she highlighted the intersection of history and digital transformation in natural history research. Honoring Dr. Nathaniel Wallich's pioneering contributions, she traced India's scientific journey from botanical illustrations to cutting-edge DNA barcoding and AI-driven research and also pointed out Zoological Survey of India's vast collections and its six galleries showcasing India's biodiversity.
 101. In continuation of the Monthly Scientific Consultative Meeting for January 2025 for both ZSI Regional Centers and Headquarters, on 4th February, 2025, the Director presided over the session, leading discussions on key scientific matters, ongoing research progress, and future strategic initiatives through video conferencing.
 102. Director ZSI chaired the third Meeting of the Scrutiny of New Research Proposals for the

- Annual Programme of Research 2025-26 held on 04.02.2025 at ZSI Hqs.
103. Dr. Dhriti Banerjee met with Dr. Andrew Fleming, British Deputy High Commission to East & Northeast India and The Stewards, Royal Calcutta Turf Club at the Queen Elizabeth II Memorial Cup Reception & Annual Get-together on 07.02.2025.
 104. On 12th February, 2025, the Zoological Survey of India (ZSI) under the dynamic leadership of Dr. Dhriti Banerjee signed a Memorandum of Understanding (MoU) with the West Bengal State Electricity Distribution Company Limited (WBSEDCL) to conduct a comprehensive biodiversity assessment for the 1000 MW Turga Pumped Storage Project in Purulia, West Bengal. Under this eight-year collaboration, ZSI will monitor fish, bird, and mammal populations across pre-construction, construction, and post-construction phases using advanced scientific tools such as environmental DNA (eDNA) analysis, camera trapping, and passive acoustic monitoring. The study aim to assess ecological impacts and provide conservation recommendations to ensure sustainable project execution.
 105. Director, ZSI along with the ZSI Scientists attended the 136th Foundation Day Celebration of the Botanical Survey of India (BSI) on 13.02.2025 and the inaugural session of the 3rd international Symposium on Plant Taxonomy, Ethnobotany, Botanic Gardens and Biodiversity Conservation (BSI-ISPTBG&BC 2025) in Kolkata, West Bengal from 13th to 15th February 2025. Director ZSI addressed the event highlighting both the institutes' shared origins in the Asiatic Society of Bengal. She acknowledged BSI's achievements in plant documentation and digitization and ZSI's contributions to faunal research. Both institutions have played key roles in biodiversity conservation and policy-making. Further in her address, she called for closer collaboration between BSI and ZSI in biodiversity monitoring and research. Emphasizing the importance of preserving India's natural heritage, she urged unity in their mission for sustainable development and ecological stewardship, ensuring a biodiverse future for coming generations.
 106. Attended the valedictory session of the 3rd International Symposium on Plant Taxonomy, Ethnobotany, Botanic Gardens, and Biodiversity Conservation (BSI-ISPTBG 2025) as the Guest of Honour. The symposium was organized by the Botanical Survey of India (BSI) from February 13th to 15th, 2025, in Kolkata, West Bengal, following its 136th Foundation Day Celebration.
 107. Attended as Chief Guest to a three-day workshop on Groups, Reserves and Identification on Insects from 16-18 February at Fairfield by Marriott, Vibhuti Khand, Seminar Nagar jointly organized by the Central Zone Regional Centre, ZSI Jabalpur & the Society of Biological Sciences & Rural Development in collaboration with Scientific Surveyor of India. On this occasion the Society of Biological Sciences and Rural Development honored Dr. Dhriti Banerjee with the Lifetime Achievement Award for her outstanding contribution to the field of Zoology.
 108. Dr. Dhriti Banerjee was interviewed by ABP Ananda News Channel for their magazine, "Sananda," to celebrate womanhood. The interview focused on her life experiences, culminating in her becoming the first female director of the ZSI in its 105-year history.
 109. Chaired the Departmental Promotion Committee (DPC) Meeting which was conducted on 28th February, 2025 in the headquarters office, Kolkata for the various posts of Office Superintendent, Senior Zoological Assistant, Upper Division Clerk and Motor Driver in the Headquarter and Regional Centers.
 110. Zoological Survey of India Recreation Club organized ZSI Biennial Social Program 2025 on 28th February, 2025 at Asutosh Birth Centenary Hall, Indian Museum, Kolkata. The event which was attended by the ZSI staff & scientists, commenced after the inauguration by the Director.
 111. A field visit to the Agasthyamalai Biosphere Reserve was conducted by the Director of the Zoological Survey of India (ZSI) from 20-23 February, 2025. The visit aimed to explore the region's rich biodiversity, assess conservation efforts, and study fauna, enhancing research and awareness about this ecologically significant area.
 112. Dr. Dhriti Banerjee was conferred with the Lifetime Achievement Award by the Society of Biological Sciences & Rural Development (SBSRD) for her exceptional and lasting contributions to the field of Zoology on the occasion of National Workshop on Groups, Reserves and Identification of Insects from 16-18 February, 2025 at Fairfield by Marriott, Lucknow.
 113. On the 3rd of March, Dr. Banerjee attended

- the 7th meeting of the National Board for Wild Life (NBWL) held in Sasan-Gir, Gujarat, where she contributed her expertise to the discussions on wildlife conservation and habitat preservation. The high-profile meeting, chaired by Hon'ble Prime Minister of India, Shri Narendra Modi focused on vital discussions concerning wildlife conservation and habitat preservation. Dr. Banerjee ably contributed by sharing her expertise and the strategic role of ZSI in national wildlife protection initiatives. Dr. Banerjee 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.
114. On the 6th of March, as part of media engagement, Dr. Banerjee 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.
 115. International Women's Day was celebrated on the 8th of March. Dr. Banerjee was honoured as the Chief Guest at the National Conference on "Innovative and Modern Technologies for Environmental Management" in Rewa, Madhya Pradesh. On this occasion, she was conferred with the prestigious 'Women Leadership Award-2025' for her outstanding contributions in the field of women empowerment. The event also saw a significant Memorandum of Understanding signed between ZSI and Awadhesh Pratap Singh University to strengthen collaboration in biodiversity research and to strengthen women in Science. Dr. Banerjee had also attended a Short-Term Training Programme on Women Empowerment and participated in the national seminar on 'Women Empowerment in India'. She 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.
 116. On the 10th of March, Dr. Banerjee chaired the 4th meeting of the new research proposal scrutiny committee for the Annual Programme of Research 2025-26 at ZSI Headquarters. This meeting was aligned with the organization's objectives to assessing the upcoming research proposals in ZSI.
 117. On 11th March, at the National Seminar on Women Entrepreneurship in India and Nari Samman Samaroh – 2025, Dr. 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.
 118. On 13th of March, Dr. Banerjee delivered the inaugural address at the 'Training on Special Campaign & E-Auction' by Stores Section, ZSI Hq (Kolkata). GM, MSTC - Shri Surya Kant and Deputy GM, MSTC - Shri Vikash Jaiswal were present in the training. On this occasion, two books, viz "Standard Operating Procedure – Disposal of Surplus and Obsolete Items" and "Disposal of Scrap/E-Waste" were released. Later, Dr. Banerjee 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.
 119. On the 20th and 21st of March, Dr. Banerjee evaluated the Assistant Zoologists of ZSI Hq and Regional Centres followed by the Senior Zoological Assistants (notified from File No. 03-01/2024-Estt./ vide Office Order No. 82/2025 dated 13.03.2025) on 21st and 22nd of March.
 120. On the 24th of March, Dr. Banerjee also evaluated the progress of Junior Research Fellows, Senior Research Fellows and Post-Doctoral Fellows of ZSI to assess the scientific contributions of the researchers.
 121. From 27th to 28th of March, Dr. Banerjee assessed the notable contributions of the Scientists of ZSI

Seminars/Conference/Webinars attended by Scientists: 96

1. Dr. Santosh Kumar, Scientist E, attended 4th International Symposium on Ciliate Biology April 2-5, 2024, Proceedings University of Delhi, India for Preliminary studies on ciliates associated with corals of Gulf of Mannar Marine National Park, India.
2. Dr. Jasmine Purushothaman, Scientist E attended 4th International Symposium on Ciliate Biology April 2-5, 2024, Proceedings University of Delhi, India for Testate Amoeba: A Friend or Foe to the Soil ecosystem.
3. Dr. Jasmine Purushothaman, Scientist E attended 2nd International conference SFARM: Life Below Water 2024 on Ecto and

- Endoparasites of fishes in open water system with special reference to Hooghly- Matla estuary.
4. Dr. Santosh Kumar, Scientist E, attended (Can soil ciliate protists be harmful to crops? In: Book of Abstracts), International Symposium on Ciliate Biology & Interdisciplinary Research, ISCB 2025, organized by Acharya Narendra Dev College, New Delhi.
5. Dr. Santosh Kumar, Scientist E, attended One Day International Seminar, organized by Department of Zoology, Vidyasagar College in Association with IQAC, Vidyasagar College, Kolkata, held on 7th March, 2025
6. Dr. Jasmine Purushothaman, Scientist E, attended International Symposium on Ciliate Biology & Interdisciplinary Research, ISCB 2025, organized by Acharya Narendra Dev College, New Delhi.
7. Surendar C. 2024. Attended a virtual lecture on "Basic Tools and Techniques for Fossil Collection and Preservation on 28.11.2024, given by Dr. Suhel Ahmed, Director of Geological Survey of India, SU, MP. The meeting organized by ZSI, ZCRC, Jabalpur.
8. Chandran R, Surendar C. 2024. Attended one-day basic class on Paleontological Field Survey which was organized by Dr. Debahuti Mukherjee, Geological Survey of India, Paleontological Division, Kolkata on 12.09.2024.
9. All the Scientists of ZSI HQs attended the International Symposium on Plant Taxonomy, Ethnobotanics, Botanic Garden and Biodiversity held during 13th to 15th February, 2025 organized by the Botanical Survey of India, Kolkata
10. All the Scientists and staffs of ZSI HQs attended National Conference of Invasive Alien Fauna: Threats and Challenges on 25th & 26th March 2025 organized by Zoological Survey of India, Kolkata.
11. All the Scientists and staffs of ZSI HQs attended Technical Sessions of Animal Taxonomy Summit 2024 in commemoration of 109th Foundation of Zoological Survey of India during 1st to 3rd July 2024.
12. Dr Devanshu Gupta, Sci-D attended 7th International Conference held on entitled "Global Approaches in Agricultural, Biological, Environment and Life Sciences for Sustainable Future (GABELS- 2024)" on June, 08 - 10, 2024, held at Buddha Hall, D.A.V. College (Tribhuvan University) Kathmandu, Nepal.
13. Dr Devanshu Gupta, Sci-D participated as 'Session Judge' in the "National Conference on "Zoology for Ecosystem and Human Health", organised by the department of Zoology, University of Kalyani on 22 April, 2024.
14. Dr Devanshu Gupta, Sci-D attended inaugural and valedictory sessions of DST-SERB sponsored National Conference on 'Zoology for Ecosystem and Human Health' on 22nd April 2024 at Department of Zoology, University of Kalyani, West Bengal.
15. Dr. Swetapadma Dash, Scientist-E attended one webinar on Enhancing Peer Review: How Reviewer Credits Supports Editors and Elevates the Process conducted by Asian council of Scientific Editors on 8th March 2025(3.30PM).
16. Dr. Anil Kumar Dubey, Scientist- E, attended online seminar "Belize Insect Diversity; Trapdoor Spider Ecology in California Coastal Sand Dunes; and e DNA from Silk and Sand; and more...by Dr. Fran Keller (Professor- Folsom Lake College; Lecturer and Museum Affiliate/ Scientist- Bohart Museum of Entomology/ Bond Lab-UC Davis), organized by California Academy of Sciences, Boardroom, USA, on 5th March 2025 at 4.30 PST (IST 5 am).
17. Dr. Anil Kumar Dubey, Scientist- E, attended online Essig Brunch seminar on "Publication Trends in Entomology and Other Scientific Research" by Dr. Vincent Resh, Professor of the Graduate School at UC Berkeley, USA, organized by Pacific Coast Entomological Society, USA, on 7th March 2025 at 10:10 am Pacific Time (IST 11.30 pm).
18. Dr. Anil Kumar Dubey, Scientist- E, attended online Seminar on "400 million years of web construction: how correlated are the evolution of spider and web phenotypes? Dr. Jonas Wolff, University of Greifswald under Essig Brunch, PCES on 13th Sept., 2024 at 10 PM IST. (10 AM PDT: California Time).
19. Dr. Swetapadma Dash, Scientist-E attended one webinar entitled Navigating the path to publication organized by Canadian Science Publishing on 24.10.2024
20. Dr. Atanu Naskar, Sci-C participated in the National Conference on "Innovation and Modern Technologies for Environment Management" at Awadesh Pratap Sing University Rewa, MP from 07.03.2025 to 09.03.2025.
21. Dr. Souvik Sen, Scientist-E attended the 'IUCN Red List Assessments for Theraphosidae Spiders of India' organized by South Asian

- Invertebrate Specialist Group, SSC, IUCN and Zoo Outreach Organization from 19th to 21st July, 2024 in Coimbatore, Tamil Nadu.
22. Dr. P.P. Mohapatra, Sci-E attended "Conclave on Human-Tiger Conflict Mitigation & Coexistence" on 21/02/2025 and participated in the brainstorming session on "The Kolkata Statement on Human-Wildlife Conflict Mitigation & Coexistence" organized by the Wildlife Trust of India at Kolkata.
 23. Dr. Amitava Majumder, Scientist B attended Sundarban Bird Festival as a "resource person" and "expert" from the period of 22nd -26th January 2025, organized by Sundarban Tiger Reserve, Forest Department of West Bengal.
 24. Ms. Debashree Dam, Scientist - C attended a talk show on "Climate Change and We" at Fest5 International Film Festival held at Bhasha Bhawan, National Library Auditorium, Kolkata on 3rd August 2024, in which Dr Dhriti Banerjee, Director, ZSI took part along with other scientists.
 25. Dr. Dola Roy, Scientist - B, participated in 14th Asian Fisheries and Aquaculture Forum (14AFAF) Theme: Greening the Blue Growth in Asia-Pacific from 12-15 February 2025.
 26. Dr. Chitra J, Scientist D participated in international conference on environmental conservation & sustainability – A Biological Perspectives (ECS-B) Do diversity of Rotifera are important in East Kolkata Wetlands, an incredible Fishermen livelihood organised by in Hybrid mode – online.
 27. Dr. Chitra J, Scientist D participated in International seminar on computing in Life sciences – emerging trends (CLSET-2K25) ON 15 March 2025 organised by A.D.M. College for Women, Nagapattinam in Hybrid mode – online.
 28. Dr. Chitra J participated in National webinar on "Soil Invertebrates and Restoration Ecology" in connection with World Environment Day-2024 on 5-06-2024 organized by EIACP Centre (RP-PC) on Biodiversity (Fauna), Zoological Survey of India, Kolkata.
 29. Dr. Chitra J participated through online in Global symposium on Soil Information and Data, Nanjing, China, organized by Food and Agriculture Organization of the United Nations, September 25 to 28th, 2024; (Hybrid Mode).
 30. Dr. Vikas Kumar, Sci-E attended conference on Exploring the Microbial World: From Human Health to Environmental Sustainability" is scheduled to be held from 2nd to 5th April, 2024, in hybrid mode.
 31. Dr. Kaomud Tyagi, Sci-D attended conference on Exploring the Microbial World: From Human Health to Environmental Sustainability" is scheduled to be held from 2nd to 5th April, 2024, in hybrid mode.
 32. डॉ. अपर्णा एस कलावटे, वैज्ञानिक- ई, डॉ. एस. एस. तलमले, वैज्ञानिक-सी श्री किषन कुमार, अवर श्रेणी लिपिक एवं श्री नितिन चौहान, अवर श्रेणी लिपिक ने नाराकास -2 के सदस्य कार्यालयों के लिए तारीख 23 अप्रैल, 2024 को कंठस्थ अनुवाद सॉफ्टवेयर – जानकारी एवं प्रायोगिक प्रशिक्षण विषय पर हिंदी कार्यशाला में भाग लिया
 33. डॉ. अपर्णा एस कलावटे, वैज्ञानिक- ई, ने एआरआई, पुणे में आयोजित दो दिवसीय राष्ट्रीय संयुक्त राजभाषा वैज्ञानिक संगोष्ठी-2024 राजभाषा हिंदी संगोष्ठी में भाग लिया और एक पेपर "गोबर भृंगों का आहार दुनिया को कैसे साफ रख रहा है?" प्रस्तुत किया
 34. Dr. A. S. Kalawate, Scientist-E, attended Essig Brunch Seminar on "Unraveling the evolutionary origins of anti-bat sonar jamming in tiger moths (Lepidoptera: Erebiidae: Arctiinae)" on 26.04.2024 by Nicolas Dowdy, Director of Collections Informatics & Head of Zoology at the Milwaukee Public Museum.
 35. Dr. K. P. Dinesh, Scientist -E, participated in national symposium on the 'Biodiversity and Conservation of Western Ghats' as a resource person at Kongunadu Arts and Science College, Coimbatore on 6th and 7th March, 2025 and delivered a lecture on "Amphibian Diversity in the Western Ghats and their Conservation Status".
 36. Dr. Basudev Tripathy, Scientist -E & Officer in Charge participated a national workshop on Wildlife Management on 22.03.2025 at New Delhi.
 37. Dr. Sandeep Kushwaha, Scientist-C, attended International Conference on Environment and Agriculture: New Technological Applications on March 30 & 31, 2024 organized by society of biological sciences.
 38. Dr. Sandeep Kushwaha, Scientist-C, attended HIDS- Human identification conference 2024 organized by Thermo fisher scientific on 14th to 15th May, 2024.
 39. Dr. P. S. Bhatnagar, Scientist-E & O/c & Dr. Sandeep Kushwaha, Sci-C attended Hindi Rashtriya Vigyan Sammelan-2024 on 30th -31st July 2024 at AMPRI-CSAI, Bhopal and co-chaired a session of presentation.
 40. Dr. P.S. Bhatnagar, Scientist-E and Dr. S. Kushwaha, Scientist-C attended the Akhila Bharatiya Rajbhasha Samelan and Hindi

- Diwas, 2024 organised by Home Ministry, GOI at Bharat Mandapam, New Delhi on 14th and 15th September, 2024.
41. Dr. P.S. Bhatnagar, Scientist-E and Dr. Sandeep Kushwaha, Sci-C participated in One-day cleaning campaign in Ghughwa National Fossil Park, Dindori district, on 08.10.2024, by Geological Survey of India and other government departments of Jabalpur. Officers & staff of ZSI, CZRC, Jabalpur celebrated the "World Wildlife Day" on 03rd March, 2025 by organising quiz competitions for the internship students at the centre and conducting a workshop on Wildlife Conservation Finance Investing in people and Planet at Vikram University, Ujjain (M.P.).
 42. Dr. Sandeep Kushwaha, Sci-C attended expert's lecture of Dr. Punjab Singh Ex-Secretary, DARE & DG (ICAR) on 17.11.2024 at of Mahakaushal Vigyan mela and Arogya expo 2024 organized by Madhya Pradesh council of science and Technology, Vigyan Bharti, IITDM Jabalpur and MP Government.
 43. Dr. Sandeep Kushwaha, Sci-C attended expert's lecture on Dr Sanjay Kumar Chairman ASRB on 17.11.24 at of Mahakaushal Vigyan Mela and Arogya expo 2024 organized by Madhya Pradesh council of science and Technology, Vigyan Bharti, IITDM Jabalpur and MP Government.
 44. Dr. Sandeep Kushwaha, Sci-C attended National Conference on "New Horizons in Applied Research for Sustainability" (NHARS-2024) jointly organized by CSIR advanced materials and processing research institute, Bhopal and School of Environmental Biology, APS University Rewa, MP on 20.12.2024.
 45. Dr. S. D. Paunikar, Scientist-E attended virtually a National Conference on "Lesser Known Species of Madhya Pradesh" on 17th -18th January, 2025 organised by SNHC India (Society of Nature Healers, Conservators, and Local Tourism Development, Bhopal, Madhya Pradesh).
 46. Dr. S. D. Paunikar, Scientist-E attended virtually a National Conference on "Recent Advances in Forest Entomology and Pathology" on 30th January, 2025 organised by ICFRE-Forest Research Institute (FRI), Dehradun.
 47. Dr. Sandeep Kushwaha, Sci-C attended 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 07-08th March, 2025.
 48. Dr. Indu Sharma, Scientist-F participated in the Webinar organized by Michael Edmondstone London, WC2A 1L SHOAL's 1,000 Fishes Blueprint: a webinar (east) on "Conservation action for 1000 of Earth's most threatened freshwater fishes by 2035" and brain storming session on 13th June, 2024 through virtual mode.
 49. Dr. R. H. Raina, Scientist- E attended "International Conference on Monitoring Biodiversity for Action (ICMBA-2024)" on 25th June, 2024 organized by the Department of Zoology, University of Kashmir from 25th to 27th June, 2024.
 50. Dr. Indu Sharma, Scientist-F attended the training entitled "IUCN RED LIST ASSESSOR TRAINING WORKSHOP" jointly organized by ZSI & BSI through MoEF&CC at Central National Herbarium, BSI, Botanical Garden, Kolkata from 26th to 30th August, 2024.
 51. Dr. R. H. Raina, Scientist-E attended International Mountain Day 2024 event "Youth for the Himalaya: Innovate, Inspire, Impact" organized by IUCN in collaboration with GB Pant NIHE under the aegis of Ministry of Environment, Forest, and Climate Change (MoEFCC), on 11th December, 2024 at Ganga Auditorium, Indira Paryavaran Bhawan, MoEFCC, New Delhi.
 52. Dr. Indu Sharma, Scientist-F participated in the Annual Review workshop/meeting of AINP on Vertebrate Pest Management of AINP (All India Network Project) held at ICAR-CAZARI, Jodhpur from 8th to 9th January, 2025.
 53. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge and Dr. Archana Bahuguna, Scientist-F, ZSI, NRC, Dehradun participated in the "IUCN Red List Assessor Training Workshop" jointly organized by ZSI and BSI through MoEFCC and IUCN INDIA office held at Conference Hall of Central National Herbarium, BSI Botanical Garden, Howrah, Kolkata from 26th to 30th August, 2024.
 54. Dr. Gaurav Sharma, Scientist-E and Officer-in-Charge, ZSI, NRC, Dehradun had participated in the seminar on "Himalaya Forests: Status, Challenges and Way Forward" on the occasion of celebration of the Himalaya Conservation Week organized at conference Hall of ICFRE, HQs., Dehradun, Uttarakhand on 06th September, 2024.
 55. Dr. Gaurav Sharma, Scientist-E and Officer-in-

- Charge, ZSI, NRC, Dehradun had participated in the seminar on "Himalayan Photography: Challenges and Opportunities" on the occasion of celebration of the Himalaya Day organized at the conference Hall of School of Business, University of Petroleum and Energy Studies (UPES), Dehradun in collaboration with ZSI, WII, Delhi Metro and FICCI on 09th September, 2024.
56. Dr. Gaurav Sharma, Scientist-E and Officer-in-Charge, ZSI, NRC, Dehradun had participated in the seminar on "30th World Ozone Day on theme: Montreal Protocol: Advancing Climate Action" organized by MoEFCC in the conference Hall of Bharat Mandapam, New Delhi on 13th September, 2024.
 57. Dr. Gaurav Sharma, Scientist-E and Officer-in-Charge, ZSI, NRC, Dehradun had participated in the technical session of "2nd International Conference on Green Hydrogen India 2024" held at the conference Hall of Bharat Mandapam, New Delhi on 13th September, 2024.
 58. Dr. Gaurav Sharma, Scientist-E and Sh. M.K. Meena, Scientist-B ZSI, NRC, Dehradun had participated in the "चौथा अखिल भारतीय राजभाषा सम्मेलन" organized by राजभाषा विभाग, गृह मंत्रालय held at भारत मंडपम, नई दिल्ली on 14-15 सितंबर, 2024.
 59. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge, and Mr. M.K. Meena, Scientist-B, ZSI, NRC, Dehradun participated in the "WII 35th Annual Research Seminar 2024" held at Conference Hall of Wildlife Institute of India, Dehradun from 05th to 06th October, 2024.
 60. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge and Mr. M.K. Meena, Scientist-B, ZSI, NRC, Dehradun participated in the "Wildlife Week Celebration Programme" held at Conference Hall of Wildlife Institute of India, Dehradun on 05th October, 2024.
 61. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge and Mr. Manoj Kumar Meena, Scientist-B, ZSI, NRC, Dehradun participated in the Seminar to attend the memorial lecture in remembrance of "Kirti Chakra Recipient Late Shri P. Srinivas, IFS" delivered by 'Hon'ble Judge of Supreme Court of India Shri Sudhanshu Dhulia organized and held at Hari Singh Auditorium, Indira Gandhi National Forest Academy (IGNFA), Dehradun on 15 November, 2024.
 62. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge and staff of ZSI, NRC, Dehradun participated in the "AADI GAURAV Mahotsav" programme organized by Uttarakhand State Janjatiyae Research Institute, Dehradun on 15 November, 2024.
 63. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge and staff of ZSI, NRC, Dehradun participated as Exhibitor in the "5th Dehradun Science, Technology and Innovation Festival (5th DISTIF)" held at Uttarakhand Technical University, Dehradun and given inputs in the conference sessions from 20 to 23 November, 2024.
 64. Dr. Gaurav Sharma, Scientist-F & Officer-in-Charge and staff of ZSI, NRC, Dehradun participated as Exhibitor in Technical Session of the "19th Uttarakhand State Science & Technology Congress - 2024 (19th USSTC)" held at Doon University, Dehradun from 28 to 30 November, 2024 and Dr. Gaurav Sharma also acted as Panelist Member in Biodiversity Session on 30 November, 2024.
 65. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge attended function as "Invited Guest" of "Women Scientist Conclave 2024-25" organized by Uttarakhand Science, Education and Research Centre (USERC), Government of Uttarakhand, Dehradun held at IRDT Conference Hall, Dehradun on 19 December, 2024.
 66. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge attended function of release of "India State of Forest Report-2023 of Forest Survey of India" released by Hon'ble Minister MoEFCC Shri Bhupinder Yadav Ji in the Convocation Hall of Forest Research Institute, Dehradun on 21 December, 2024.
 67. Dr. Gaurav Sharma, Dr. Aftab Ahmed, Mr. Manoj K. Meena, Mrs. Purbita Roy Sharma, Mrs. Jyoti Verma and Mr. Yogender participated in the "International Seminar on Current Environmental Issues for Sustainable Circular Economic Strategies and Fisheries Development for a Greener Tomorrow" organized by Gurukul Kangri University and IAES, Haridwar from 28-29 January, 2025. Dr. Gaurav Sharma delivered Invited Guest Lecture on Status of Faunal Diversity in India and Mrs. Purbita Roy Sharma, Sr. Zool. Asstt. received Gold Medal and First Position in Paper Poster presentation.
 68. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, 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 06th to 08th March, 2025.
69. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun participated in the "Seminar on Accelerate Action- A Firm step towards Viksit Bharat" organized for celebration "International Women's Week" 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's working in different organizations. About 80 Women's, Faculties & Girl Students from different Colleges & Universities of Dehradun participated.
 70. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun participated in the "International Conference on Biotech Frontiers 2025: Emerging Trends in Biotechnology & Microbiome Research" held at Shri Guru Ram Rai University, Dehradun, Uttarakhand on 21st March, 2025.
 71. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun participated 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 24th March, 2025.
 72. Dr. Archana Bahuguna, Scientist-F and Dr. Narender Sharma, Scientist-F attended through virtual mode "3rd National Conference through virtual mode on Lesser Known Species of Madhya Pradesh" to gain knowledge on Lesser Known Species and their conservation on 17th and 18th January, 2025.
 73. Dr. Archana Bahuguna, Scientist-F attended through virtual mode seminar on Getting involved with Mountain Hare Survey organized by Mammal society UK on 19th Feb 2025.
 74. Mr. M. K. Meena, Scientist-B attended One Day Seminar/Training Workshop organized on "Status of Faunal Diversity and efforts on their Conservation in India" organised by ZSI, NRC, Dehradun on 10 January, 2025.
 75. Dr. K.A. Subramanian, Sci-F, Dr. Jayasree Thilak & Sci-F, Dr. R. Babu, Sci-E, attended the National Symposium on "The Western Ghats: Biodiversity Conservation and Ecosystem Management" held at Kongunadu Arts and Science College, Coimbatore on 06.03.2025 and 07.03.2025.
 76. Dr. Ranjana, Sci-E, International webinar on the theme "Biodiversity Loss and climate change: the twin global crises" organized by aligahmuslim university, UP held on 7th June 2024
 77. Dr. Ranjana, Sci-E, attended One webinar on 25/07/2024 on Next Generation Sequencing - Optimizing Techniques conducted by MP Biomedicals LLC.
 78. Dr. Avtar Kaur Sidhu, Scientist-E, attended online webinar on IUCN & ISO Technical Committee on Biodiversity on 24.07.2024.
 79. Dr. P. C. Pathania, Scientist-E attended an online webinar, McGuire Center Emerging Horizons Series talk on the topic entitled, "Host plants as Mediators of Caterpillar-Natural Enemy Interactions" given by Dr John Lill, Georgetown University, Washington, DC organized by Director, Curator, and Professor McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Powell Hall, 3215 Hull Road, Gainesville, FL 32611-2710 USA on dated 08.10.2024.
 80. Dr. P. C. Pathania, Scientist-E 11th Him Science International Congress on Materials and Biological Sciences, organized in collaboration with the Zoological Survey of India, at Government College, Bilaspur, Dist. Bilaspur, Himachal Pradesh-174001 on 16-17 November, 2024.
 81. Dr. P. C. Pathania, Scientist-E an online talk in the McGuire Center's "Expanding Horizons in Lepidoptera Research" series on the topic titled "Introduction to the Lepidoptera Course, and Updates from the California ATBI & A History and Introduction to the Lepidoptera Course," was delivered by Christopher C. Grinter from the California Academy of Sciences and organized by the Director, Curator, and Professor at the McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Powell Hall, Gainesville, USA on 19th November, 2024.
 82. Dr. P. C. Pathania, Scientist-E an online webinar, McGuire Center Emerging Horizons Series talk on the topic entitled, "Catching Z's: Evolutionary insights from lepidopteran sex chromosomes" by Andrew Mongue from University of Florida, Entomology Department, 2214 Steinmetz Hall, 1881 Natural Area,

- Gainesville, FL 32611 organised by Director, Curator, and Professor McGuire Center for Lepidoptera and Biodiversity Florida Museum of Natural History, University of Florida, Powell Hall, 3215 Hull Road, Gainesville, FL 32611-2710 USA on dated 01.11.2024.
83. Dr P. C. Pathania, Scientist-E an online webinar on McGuire Center's "Expanding Horizons in Lepidoptera Research" series talk on the topic entitled, "From pixels to patterns: integrating computer vision and AI to study wing color pattern evolution in butterflies" by Mortiz Luerig, Florida Museum of Natural History organised by Director, Curator, and Professor McGuire Center for Lepidoptera and Biodiversity Florida Museum of Natural History University of Florida, PowellHall,3215,HullRoad, Gainesville, FL 32611-2710 USA on dated 03.12.2024.
 84. Dr P. C. Pathania, Scientist-E online webinar on March 11, 2025, as part of the McGuire Center's "Expanding Horizons in Lepidoptera Research" series. The talk, titled "Mothbox: An Open-Source Insect Monitoring Device that Interfaces with AI to Monitor Insect Diversity," was delivered by Dr. Andy Quitmeyer from Dina Lab in Panama and organized by the Director, Curator, and Professor at the McGuire Center for Lepidoptera and Biodiversity, Florida Museum of Natural History, University of Florida, Powell Hall, Gainesville, USA.
 85. Dr P. C. Pathania, Scientist-E an online webinar on the eve of National Science Day, featuring a lecture by Professor Ravi Kant Mishra on "Genesis of Higher Education in India with a Special Focus on Sir C.V. Raman's Contributions," organized by Sant Longowal Institute of Engineering & Technology, Longowal, Punjab, on 10th March, 2025.
 86. Dr. S. S. Jadhav Scientist-E attended IUCN Red List Assessor training workshop at Central National Herbarium, Kolkata from 11th to 15th December 2024.
 87. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge attended Climate Change and Disaster Management Summit as part of GeoSmart India 2024, 2-5 December, HICC, Hyderabad.
 88. Dr. M. Karuthapandi, Scientist-D, attended one-day conference 'Aquatic Faunal Diversity of India and Molecular Approach' on 26th Sep 2024, organized by Department of Zoology, Telangana University.
 89. Dr.V.D. Hegde, Scientist-F & Dr. Muhamed Jafer Palot, Scientist-C participated in the National Seminar on Health, Habitat and Environment – Climate Change -Impact and Challenges at the Zoology Department, Kannur University Mananthavady campus on 25th February 2025.
 90. Dr P. Girish Kumar, Scientist-D, attended a National Symposium on 'The Western Ghats: Biodiversity Conservation and Ecosystem Management' on 6th & 7th March 2025 at Kongunadu Arts and Science College, Coimbatore and delivered a talk on 'An overview of Hymenoptera of the Western Ghats'.
 91. Dr. Anil Mohapatra, Scientist-E attended - Omic 'Haar' titled "Advancement in Genomic Healthcare: Emerging Trends and Innovations in India," on 28th -29th July 2024 at the Sterling Resort in Puri organized by institute of Life Sciences, Bhubaneswar.
 92. Dr. Anil Mohapatra, Scientist-E had attended the IUCN Red List Assessor Training Workshop held during 26 – 30th August 2024 at Central National Herbarium, Botanical Survey of India, West Bengal, Organized by BSI and ZSI.
 93. Dr. D.S. Suman, Scientist-E had delivered an invited lecture and chair a session in the international conference on Current trends in Toxicology (ICCTT) and the 3rd annual meeting of the Society of Toxicology (India), STOX, 2024 organised by Lovely Professional University, Punjab from, 16 - 18th October, 2024.
 94. Dr. S. D. Gurumayum, Scientist –E co-chaired a Brainstorming Session on Identifying the Key Issues and Challenges on Environmental Aspects for North-Eastern region of India on 10th September, 2024.
 95. Dr. Aditya Kapil Valiveti, Scientist – C, attended one webinar entitled "Testing Chemical Warfare Agent Response in a Realistic Setting" organized by EPA, US on 14.08.2024.
 96. Dr. Aditya Kapil Valiveti, Scientist – C, attended three technical webinars on "Innovative insights: using LDIR for advanced microplastics characterization in India" organised by Agilent Technologies, USA on 24.01.2025, "Lionfish: An Ocean Tragedy in three acts" organised by NOAA, National Marine Sanctuaries on 14.01.2025 and "Hazardous air pollution analysis with TD-GC_MS to discover benefits of Canister and tube sampling" conducted by Separation Science on 28.01.2025.

Trainings and Workshops attended by Scientists:64

1. Dr. Jasmine Purushothaman, Scientist E, attended Two-Day workshop on the beach profile data analysis, INCOIS FISH app, and PI web dashboard, including a couple of sessions on the importance of marine biogeochemistry research in upgrading/developing marine ecological applied services, from 27th & 28th Feb, 2025.
2. Dr. Jasmine Purushothaman, Scientist E, attended IUCN National Red Listing Assessment for Indian Flora and Fauna' held at 'Central National Herbarium (CNS), Botanical Survey of India, Howrah' from 12th to 15th December, 2024.
3. Chandran R, Surendar C. 2024. Attended a hands-on training on e-Office conducted by Annadhurai, MOEFCC, Government of India at ZSI-HQ on 12.09.2024.
4. Dr. K. Valarmathi, Sci-E, attended a Two days Sahbhagita Regional Workshop on "Conservation and Wise Use of Wetlands" from 29th to 30th August, 2024.
5. Dr. Tamal Mandal, Scientist D, attended inception cum Planning Workshop for Management Effectiveness Evaluation (MEE) of 113 Coastal and Marine Protected Areas (MPAs)- 2024-25 on 24th January 2025 virtually.
6. Dr. Tamal Mandal, Scientist D, attended Stakeholder Consultation Workshop On 'Economic Accounting for a Sustainable and Inclusive Blue Economy in India: Case of Sundarbans' organized by National Institute of Advanced Studies, Bengaluru and supported by Deep Ocean Mission (DOM), Ministry of Earth Sciences (MoES), GOI on 24th February 2025.
7. Dr. Tamal Mandal, Scientist D, attended a Workshop on Standardization for Environment and Ecology being organized on 12th August 2024 by Bureau of Indian Standards at Yashobhoomi, New Delhi.
8. Dr. Tamal Mandal, Scientist D, attended 2nd Sahbhagita workshop on "Conservation and Wise Use of Wetlands" for Eastern States/UT during 29th -30th August 2024) at Taj Taal Kutir, Kolkata and participated in field survey tour at East Kolkata Wetland.
9. Dr. Tamal Mandal, Scientist D, attended one-week compulsory training course for Officers of Indian Forest Service (IFS) at ZSI/ANRC, Port Blair during 11th to 15th November 2024.
10. Few scientist and some staffs of ZSI HQs attended a training programme on IUCN National Red Listing Assessment for Indian Flora and Fauna organized by the ZSI and BSI on 10th to 15th December 2024 at the Central National Herbarium, BSI, Howrah, Kolkata.
11. Dr. Sheela, S., Sci-E attended an orientation workshop on POSH Act on 13.11.2024 as ICC member.
12. Dr. Rajmohana K, Sci-E participated in the Workshop on Prevention, Prohibition and Redressal of Sexual Harassment of Women at Work Place (POSH-22) at ISTM, New Delhi on 4th November, 2024.
13. Dr. Rajmohana K, Sci-E participated in the Green Climate Fund (GCF) Training Workshop: Training of Trainers workshop at Biswa Bangla Convention Centre, Newtown, Kolkata on 16th -17th January 2025. Organized by MoEFCC, in partnership with Indian Chamber of Commerce (ICC)
14. Dr. Rahul Joshi, Sc. D attended online workshop on Proactive Disclosure of information under RTI-Act & Third Party Audit on June 10, 2024 organized by institute of secretariat training and management, New Delhi.
15. Dr. Rahul Joshi, Sc.- D participated in Rajbhasa Karyashala on March 23, 2025 at NERC, ZSI, Shillong.
16. Dr. Devanshu Gupta, Sci-D participated in five training courses provided by the Institute of Secretariat Training and Management and iGOT Karmayogi and Department of Personnel & Training Date: 25 May 2024.
17. Dr. Jhikmik Dasgupta, Sci-B attended the webinar titled "Stories of my field encounters with Tiger Beetles and How to conserve them" by Dr. David Pearson. The webinar was organized by Zooreach Organization on the event of "Tiger Beetle Day" on 11th November, 2024.
18. Dr. T. Kubendran, Scientist-D participated "Workshop on Hands on Training in Culturing and Rearing of Drosophila" organized by the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore – 641 046, Tamil Nadu, from 3rd February 2025 to 7th February, 2025.
19. Dr. G.P. Mandal, Sci – 'E' attended e-office training on 13.09.2024 at ZSI(HQ) organised

- by IT Department, MoEF&CC, New Delhi.
20. Dr. Atanu Naskar, Sci-C attended a joint workshop between Society of Biological Sciences & Rural Development and Central Zone Regional Centre, ZSI, Jabalpur at Fairfield Marriot, opposite Indira Gandhi Pratishthan, Gate No 2, Vibhuti Khand, Gomti Nagar, Lucknow from 16-18 February, 2025.
 21. Dr. S. Acharya, Sci-E Participated in the "Regional Workshop on Conservation and Wise use of Wetlands" under Sahbhagita Mission for Eastern Region States Bihar, Jharkhand, Odisha and West Bengal organized by MoEF and CC from 29-30th August 2024 at Taj Taal Kutir, New Town, Kolkata.
 22. Dr. L. Kosygin Singh, Sci-E attended as an expert for the brainstorming session/workshop titled "Futuristic approach for inland fisheries informatics: Harnessing benefits of tools and techniques hybridization" at ICAR-CIFRI Barrackpore on December 4, 2024.
 23. Dr. P.P. Mohapatra, Sci-E attended the National Workshop on 'Wildlife management in India—Visioning ahead' on 22nd March 2025 in MoEFCC, New Delhi.
 24. Dr. Imran Alam, Scientist B of Bird Section has attended two days' workshop on "Regional Workshop on Conservation and Wise use of Wetlands" under Sahbhagita Mission for Eastern Regional States – Bihar, Jharkhand, Odisha and West Bengal from 23-30 August 2024 organized by MoEFCC, New Delhi Hosted by Zoological Survey of India, Kolkata.
 25. Dr. Imran Alam, Scientist B of the Bird Section and a member of the Capacity Building Unit (CBU), participated in the "Virtual Orientation on ACBP Lite Process Manual" organized by the MoEFCC on 30th September, Monday at 3:30 PM, as part of the Mission Karmayogi initiative.
 26. Ms. Supriya Nandy, Scientist - D and Ms. Debashree Dam, Scientist - C attended an online training on Identification of Fossil Corals from 8-10th August 2024 in which Dr. D.K. Pandey, renowned Palaeontologist, Professor at Central University of South Bihar delivered lectures on basic "Methodology and identification of Fossil corals".
 27. Ms. Debashree Dam, Scientist - C attended a one-day consultative workshop hosted by ZSI on 22nd August 2024 in Guwahati, under the NMHS (LG)-funded Phase-II Project titled "Conservation of Threatened Mammalian Fauna of the Indian Himalayan Region Through Scaling Up Long-Term Monitoring, Securing Corridors, and Capacity Building."
 28. Ms. Supriya Nandy, Scientist - D and Ms. Debashree Dam, Scientist - C attended one-day training program titled "Palaeontological Research: Basic Approaches for field exploration at Geological Survey of India on 12th September 2024 at GSI, Kolkata in which Dr. Sanjay Kumar Verma, Sr. Geologist, and other scientists Palaeontology Division, CHQ, Kolkata delivered lectures on basic field collection methods.
 29. Dr. Dola Roy, Scientist - B, participated in an extensive four-day field training focused on palaeozoological sample collection techniques from February 21-24, 2025, under the guidance of Dr. Tapas Gangopadhyay, faculty member of Earth Science at IISER Berhampur.
 30. Ms. Supriya Nandy, Scientist - D, Ms. Debashree Dam, Scientist - C, Dr. Dola Roy, Scientist - B and Ms. Anubarna Dutta Chowdhury, Senior Zool. Asstt attended a one-day training on 'Collection and Identification of Fossils' at Palaeozoology Division, Kolkata on 5th February 2025 in which Prof. Tapas Kumar Gangopadhyay, Earth Sciences, IIST, Shibpur delivered a lecture on the above topic.
 31. Dr. Chitra J, Scientist D attended 2 weeks training Programme on applications of Geoinformatics for Women scientists sponsored by DST organized by Indian Institute of Forest Management, Bhopal from November 18-29, 2024.
 32. Dr. Chitra J, Scientist D and Neha Bharti, sr. zoological assistant participated in Workshop Schedule Wild Encounters. The Art and Ethics of Wildlife Photography, 29th March 2025 organised by RKMVC College, Ravara, Kolkata.
 33. Dr. Inderjeet Tyagi, Sci-C attended workshop and training titled "Remote Sensing and Machine learning tools" at IIT Kharagpur from 13th to 17th Feb., 2025.
 34. Dr. P. G. S. Sathy, Sci-D Participated in IUCN Red Listing of Species Training from 25th August 2024 to 31st August, 2024.
 35. Jennifer Lyngdoh, Sci-E and Officer-in-Charge attended the Launch Workshop for the Project "Conservation of Threatened Mammalian Fauna of the Indian Himalayan Region through scaling up long-term, securing corridors and capacity building" on 22nd August, 2024 at Guwahati.

36. Jennifer Lyngdoh, Sci-E and Officer-in-Charge attended the online Orientation Programme on PoSH (Prevention of Sexual Harassment) on 13.11.2024, organized by ZSI, Kolkata and chaired by Ms. Kavita Bhausar- a certified PoSH trainer.
38. Dr. Bikramjit Sinha, Scientist-E participated in the Stakeholder consultation workshop for updation of the Meghalaya State Biodiversity Strategy and Action Plan (MBSAP) organised by Meghalaya Biodiversity Board at Shillong on 7th February 2025 and provided inputs towards updation of MBSAP.
39. Dr. Uttam Saikia, Sci-D attended a two days' workshop on "State of India's Bats" conducted by Nature Conservation Foundation and Bat Conservation, International at the National Centre for Biological Sciences, Bangalore between 17-19th June, 2024.
40. Dr. Uttam Saikia, Sci-D attended the IUCN Red List Assessor Training programme organized by IUCN India, BSI and ZSI at CNH, BSI Kolkata between 26-30th August, 2024.
41. Dr. Uttam Saikia, Sci-D attended an online workshop on threat mapping of bats of northeast India on the 24th February, 2025
42. Dr. Uttam Saikia, Sci-D participated in the inaugural workshop of NMHS funded project "Conservation of Threatened mammalian fauna of the Indian Himalaya Region" at Guwahati on the 22nd August, 2024.
43. Dr. Dimos Khyndriam, Sci-D, attended the IUCN Red List Assessor Training Workshop from 11th -15th Dec., 2024 at Central National Herbarium, Botanical Survey of India, Howrah, West Bengal, India organized by Botanical Survey of India and Zoological Survey of India.
44. Dr. S. S. Talmale, Scientist-C attended two-day workshop on Freshwater Biodiversity organized by Agharkar Research Institute Pune as a part of SERB-CRG Project (Scientific Social Responsibility Activity) from 14-15th March, 2024 and delivered lecture on "Odonata (Dragonflies & Damselflies) Diversity in India".
45. डॉ. एस. एस. तलमले, वैज्ञानिक-सी ने एम ए सी एस – आधारकर अनुसंधान संस्थान द्वारा आयोजित राष्ट्रीय संयुक्त राजभाषा वैज्ञानिक संगोष्ठी-2024, सतत भविष्य के लिए विज्ञान की भूमिका विषय पर संगोष्ठी में दिनांक 3-4 अप्रैल, 2024 को भाग लिया तथा वैज्ञानिक सत्र में " संरक्षित क्षेत्र से पशु प्रजातियों की पहचान और संरक्षण में उल्लू की भूमिका" इस विषयपर पीपीटी के माध्यमसे प्रस्तुतीकरण किया।
46. Dr. Basudev Tripathy, Scientist-E and Officer-in-Charge attended a programme "35 years of Glorious" at Journey Jawaharlal Nehru Port Authority and received special Recognition Award for the year- 2023-24 on behalf of Zoological Survey of India at Mumbai on 29.05.2024.
47. Dr. A. S. Kalawate, Scientist-E, participated and imparted training on the collection, pinning and curation of beetles to the MSc and BSc students of JNKVV, Jabalpur on 31.05.2024 in the workshop on Collection, Preservation and Identification of Insects jointly organised by Department of Entomology, JNKVV, Jabalpur and ZSI, CZRC, Jabalpur on virtual mode on 27.05.2024 to 31.05.2024.
48. Dr. P. S. Bhatnagar, Sci-E and Officer-in-charge attended a One Day Workshop on Forest Based Livelihood opportunities for Tribal Communities on 28.03.2025 at Raipur, Chhattisgarh in presence of Honourable Chief Minister Chhattisgarh Sh. Vushnu Deo Sai and officials from Niti Aayog.
49. Dr. P. S. Bhatnagar, Sci-E and Officer-in Charge and all other scientists, officers and other technical staff attended Expert lecture of Dr. Nitin Joshi Director, Geospatial institute Survey of India, Jabalpur, Madhya Pradesh on 24.01.2025 at Five days Workshop on Taxonomy, Preservation, Museology and Basic Geospatial Technology.
50. Dr. P. S. Bhatnagar, Sci-E and Officer-in Charge and Dr. Sandeep Kushwaha, Sci-C attended Two days Workshop on Taxonomy, Preservation, and Museology jointly organized by and at Vikram University, Ujjain (M.P.) & Central Zone Regional Centre, Zoological Survey of India, Jabalpur (M.P.) on 27th & 28th January, 2025.
51. Dr. Saipari Sailo, Scientist-D attended workshop on Application of Geo-Informatics for Women scientists and Technologists from 18th to 29th November 2024 at IIFM, Bhopal.
52. Mr. M. K. Meena, Scientist-B attended One Day Seminar/Training Workshop organized on "Status of Faunal Diversity and efforts on their Conservation in India" organised by ZSI, NRC, Dehradun on 10 January, 2025.
53. Dr. Anil Kumar, Scientist-E, participated in the workshop on 'SDG-13 and Youth: Climate action for a sustainable future, from 25-26 March 2025, organised by Vishwa Yuvak Kendra, New Delhi, in collaboration with Prem Youth Foundation, Patna, at Science Centre, Patna.
54. Dr. Bineesh K.K Attended CITES Technical workshop on Aquatic species listed in the

- CITES Appendices during 23.04.2024 to 24.04.2024 and technical workshop on non-detriment findings for specimens of Appendix-II species on 25.04.2024 to 26.04.2024 at Geneva, Switzerland.
55. Dr.C.Venkatraman, Scientist - E attended and served as member in panel discussion in State level workshop on sea turtle conservation awareness on 07.01.2025 organised Tamil Nadu Forest department.
 56. Dr. Padmanaban, Sci-B participated as Resource person on State-level Workshop on Sea Turtle Conservation and awareness organised by the Forest Department, Government of Tamilnadu on 07.01.2025.
 57. Dr. Bineesh K.K. Attended International Workshop on Conservation of Marine Mammals & Turtles at Chennai on 28 August 2024 at Hotel Trident, Chennai organized by BOBP-IGO.
 58. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge 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 26th March 2025.
 59. Dr. Deepa Jaiswal Scientist-E & Dr.Karuthapandi, Sci-D attended one day workshop on Wetland under Sahbhagita Mission for Southern Region States organized by Wetland Division of MoEFCC at Hyderabad on 13th& 14th August 2024.
 60. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge attended a Workshop Forest PLUS 3.0 Programme Conducted by Government of Andhra Pradesh at Vijayawada, Andhra Pradesh on 15th October 2024.
 61. Dr. Aditya Kapil Valiveti, Scientist – C, participated in CLU in an online training program entitled "ITRC Microplastic" organized by Interstate Technology and Regulatory Council, Washington, USA, on 06.03.2025, "Micro-nanoparticles: the marine environment" organized by UNITAR on 28.03.2025 "Microplastic in the environment and human exposure pathways" conducted by National Academies of Science Engineering Medicine on 20.03.2025.
 62. Dr.Kamalakaran M.,Scientist-C participated in the 'One Day National Workshop on Preparation of FC, EC and EIA-EMP Proposals including Eco-friendly Mitigation Measures & Challenges w.r.t. Statutory Clearances' held on 15th April 2024 at New Delhi.
 63. Dr. Kamalakannan M., Scientist-C attended a Workshop on Quality Content Development for iGoT portal held at Teesta Conference Hall, MoEFCC, New Delhi on held on 21st August 2024.
 64. Dr.Kamalakaran M.,Scientist-C participated two days Sahbhagita Regional Workshop on "Conservation and Wise Use of Wetlands" during 29-30 August 2024, held at Taj Taal Kutir, Kolkata.

Meetings and events attended by Scientists: 125

1. Dr. Santosh Kumar, Scientist E, ZSI, Kolkata attended the celebration of the International Wetlands Day, on 2nd February, 2025 at Ayodhya, Uttar Pradesh, India.
2. Dr. Santosh Kumar, Scientist E, ZSI, Kolkata attended the 4th Meeting of the National Wetlands Committee (NWC), held on 27.12.2024 at 4:00 PM through online mode.
3. Dr Anjum N. Rizvi, attended meeting held on 24.05.2024 regarding site inspection to review the progress of construction of RMNH, GANGTOK under the chairmanship of Ms. Nameeta Prasad, Joint Secretary, MoEF&CC at RMNH, GANGTOK.
4. Dr Anjum N. Rizvi, Scientist E, attended Consultative meeting for development of Galleries at RMNH, Gangtok held on 18-10-2024 at ASTEC, Guwahati, Assam.
5. Dr Anjum N. Rizvi, Scientist E, attended online meeting held on 15th of October 2024 at 12.30PM under the chairperson ship of JS (NP) to discuss the way forward for the concept note on Ridge Interpretation Center"
6. Dr. N Marimuthu, Scientist E, attended as an external examiner of a PhD public viva-voce for Ms. Sameha Pathan (Topic: The spatial ecology and conservation of sea grasses of the Gulf of Kachchh, Gujarat; Guide: Prof. Dr. K. Sivakumar, Pondicherry University), Wildlife Institute of India, Dehradun on 28.06.2024 through hybrid mode.
7. Dr. R. Chandran, Scientist C, attended a virtual expert consultation meeting entitled "Mapping India's Bule Forest Ecosystems: Exploring their status, challenges, resilience and preservation" organized by Climate RISE Alliance & SaciWATERS on 01.08.2024 as per the DZSI approval (F. 219-23/2023/Tech.

- (Mtgs.)/14812).
8. Dr.N.Marimuthu, Scientist E, attended a virtual expert consultation meeting entitled "SPMU GCF ECRICC Project Maharashtra: prospects for coral restoration" organized by the Office of the Additional Principal Chief Conservator of Forests, Mangrove Cell, Mumbai on 03.09.2024 as per the DZSI approval (email approval). He has given recommendations on artificial reef management in the shallow water environment without sacrificing existing wild coral species from Maharashtra coastal region. He has also insisted to identify the resilient coral species based on phenotypic component of coral associates and calcification process if they really needed coral transplantation/translocation process of restoration at Maharashtra coast. Further, APCCF nominated him as a Technical Advisory Committee member with the approval of DZSI and also conducted a virtual meeting on 25.09.2024 for the correction of ToR pertaining to the upcoming Restoration programs at Maharashtra coast.
 9. Dr. R. Chandran, Scientist-C, participated a virtual consultation meeting for preparing a roadmap for the coral restoration work along the Maharashtra coast under GCF-ECRICC project (with AA email, dt. 04.09.2024) on 03.09.2024.
 10. Dr N Marimuthu, Scientist E attended an expert meeting and suggestions provided through a presentation for the development of "Centre of Excellence for Conservation of Marine Biodiversity in Maharashtra," Chaired by the PCCF (WL), Maharashtra State Forest Department at Orchid Mumbai, Andheri East, Mumbai 400059 on 18.02.2025.
 11. Dr. Tamal Mandal, Scientist D, attended 27th RAC meeting for review of the research proposals received from different Organizations / individuals to conduct the study in different PAs of Odisha under the Chairmanship of PCCF(WL), Department of Environment, Forest & Climate Change, Government of Odisha on 20th August 2024.
 12. Dr. Rahul Joshi, Sc.- E participated in Hindi quarterly meeting on 23.12.2024.
 13. Dr. D. Suresh Chand, Scientist-E, attended online meeting on IUCN Red Listing of Indian Fauna: Vision 2030 on 27.03.2025.
 14. Dr. Anil Kumar Dubey, Scientist- E, on deputation by DZSI, participated online in 67th Meeting of the Central Insecticides Board (CIB) on 10.12.2024 at 2 pm, Room No.445 (A Wing), held at Nirman Bhavan, New Delhi.
 15. Dr. Anil Kumar Dubey, Scientist- E, attended online meeting with MoEFCC, New Delhi on 01.08.2024 for reviewing of ZSI Website sensitive data protection on faunal resources of India and report submitted.
 16. Dr. Atanu Naskar, Sci-C attended the 7th meeting of National Board for Wildlife at Sasan-Gir, Gujrat and to make arrangement for 21st RAMC of ZSI at Ranthambore, Rajasthan on 3rd March 2025.
 17. Dr. Atanu Naskar, Sci-C attended a meeting with Additional Chief Secretary, Tamil Nadu on 14.05.24.
 18. Dr. Atanu Naskar, Sci-C attended a meeting at ABV University, Bilaspur from 30.08.2024 to 31.08.2024
 19. Dr. Atanu Naskar, Sci-C attended meeting for monitoring cetaceans for proposed Versova Bandra Sea Link at VBSL, Project Office at Mumbai on 10.05.24.
 20. Dr. Souvik Sen, Scientist – E attended the virtual meeting on 'Red listing' under the chairpersonship of Ms. Nameeta Prasad, Joint Secretary, MoEFCC on 22nd May, 2024.
 21. Dr. Souvik Sen, Scientist – E attended the virtual meeting on 'Collation of Public Services being rendered by Ministries/ Departments and their subordinate offices' under the Chairmanship of JS (Admn.), MoEFCC on 24th May, 2024.
 22. Dr. Souvik Sen, Scientist – E attended the meeting under the chairpersonship of Ms. Nameeta Prasad, Joint Secretary, MoEFCC to discuss the red listing of species and their long-term monitoring on 30th May, 2024 at MoEFCC, New Delhi.
 23. Dr. Souvik Sen, Scientist – E attended the virtual meeting with States to review the preparedness of plantation activities under NIRANTAR on 31st May, 2024
 24. Dr. Souvik Sen, Scientist-E attended the 17th Governing Body Meeting of Sundarban Tiger Conservation Foundation Trust on 26th December 2024 at Aranya Bhawan, Kolkata.
 25. Dr. Souvik Sen, Scientist-E attended the 4th meeting of Administrative Committee of NIRANTAR on 31st December, 2024 at 10:00AM under the chairpersonship of Secretary (EF and CC) at Teesta Conference Hall, Indira Paryavaran Bhawan, New Delhi.
 26. Few scientist and some staffs of ZSI HQs attended a discussion meeting on 'IUCN

- National Red Listing Assessment of Indian Flora and Fauna' held on 15th January 2025 at Central National Herbarium, Botanical Survey of India, Howrah, West Bengal.
27. Dr. L. Kosygin Singh, Sci-E attended the 39th Meeting of the National Committee on Introduction of Exotic Aquatic Species into Indian Waters held on 10th April, 2024 under the co-chairmanship of Joint Secretary (Inland Fisheries) organised by the Department of Fisheries, Ministry of Fisheries, Animal Husbandry & Dairying, Government of India.
 28. Dr. L. Kosygin Singh, Sci-E attended the 41st Meeting of the National Committee on Introduction of Exotic Aquatic Species into Indian Waters held on 18th June, 2024 under the co-chairmanship of Joint Secretary (IF) organised by the Department of Fisheries, Ministry of Fisheries, Animal Husbandry & Dairying, Government of India.
 29. Dr. P.P. Mohapatra, Sci-E attended CITES 33rd Animals Committee Meeting in Geneva, Switzerland, from 12th to 19th July 2024.
 30. Dr. Amitava Majumder, Scientist-B of Bird Section has attended a meeting on "Conservation and wise use of wetlands under Sahbhagita Mission for North Eastern States" during 14 th & 15 th November, 2024 at Gangtok, Sikkim.
 31. Dr. Amitava Majumder, Scientist-B from the Bird Section, participated in the fourth meeting of the National Wetlands Committee on December 27, 2024, via online mode.
 32. Dr. Amitava Majumder, Scientist B, attended the meeting in online mode on the occasion of World Wetland Day 2025, organized by the Ministry on January 2nd, 2025.
 33. Dr. Amitava Majumder, Scientist - B, conducted a site inspection meeting on February 18, 2025, at Dhapamanpur Mouza within the East Kolkata Wetlands (EKW) as instructed by the Ministry of Environment, Forest and Climate Change (MoEFCC). The inspection pertained to a proposal for the construction of one underground reservoir, two overhead reservoirs, and a health centre.
 34. On 3 October, 2024 Dr. Gopinathan Maheswaran, Sci-F had attended the 16th State Board for Wildlife Meeting of West Bengal at NABANNA under the Chairmanship of Chief Secretary, Govt. of West Bengal.
 35. Dr. M. Kamalakannan, Scientist- C attended a VC meeting on 'Prioritization of taxa for red listing' and 'Preparation of Vision 2030 document for National red listing', at ZSI-HQ on 24th December 2024.
 36. Ms. Supriya Nandy, Scientist - D attended the 20th Meeting of the CGPB Committee X: Fundamental and Multidisciplinary Geo-Science is scheduled on 5th September 2024 at Geological Survey of India, Central Headquarters, Kolkata and discussed about future collaborative work between ZSI and GSI.
 37. Dr. Dola Roy, Scientist – B, attended a meeting as a team member from ZSI regarding the impact assessment of the Proposal for construction of One Underground Reservoir, Two Overhead reservoirs and One Health Centre at Dhapamanpur Mouza in East Kolkata Wetlands (EKW) on February 18, 2025.
 38. A research meeting was organized on "Collaborative Possibilities in Paleozoology" on December 30, 2024, at the Palaeozoology Division of Zoological Survey of India, Kolkata, brought together experts from Jadavpur University and ZSI to discuss comprehensive field study strategies for paleozoological research at Dwarka sites, covering GIS mapping, taphonomic analysis, paleoclimate research, and specimen documentation methods. The meeting concluded with agreement on action items including preparing a field visit schedule, organizing equipment, developing documentation templates, and arranging permits, with both parties committing to ongoing communication for the collaborative research.
 39. Dr. Vikas Kumar, Sci-E attended 3rd meeting of Steering Committee on ERDP to be held on 27.02.2025 from 02:00 PM onwards.
 40. Dr. Inderjeet Tyagi, Sci-C attended meeting with Joseph Berry Handling Assistant, in the capacity of Associate Editor, Frontier of Water Journal to discuss the future strategies of the journal.
 41. Dr. Vikas Kumar, Sci-E attended BIS expert committee meeting of the panel "Water Quality Management".
 42. Jennifer Lyngdoh, Sci-E and Officer-in-Charge attended the State Board meeting for Wildlife (SBWL), Tripura, chaired by the Hon'ble Chief Minister of Tripura on the 12.03.2025.
 43. Dr. Bikramjit Sinha, Sci-E attended the 36th meeting of the governing body of the Meghalaya Zoo Project implementation

- Society on 29 May 2024.
44. Dr. Bikramjit Sinha, Sci-E attended a meeting (virtual) on review of the progress of the Preparatory Phase of Special Campaign 4.0. under the Chairmanship of Sh. Satyajit Mishra, Joint Secretary, MoEFCC on 19 September, 2024.
 45. Dr. Bikramjit Sinha, Sci-E attended the 8th meeting of the state level PBR quality evaluation monitoring committee of the Meghalaya Biodiversity Board on 4th December 2024 and provided inputs for evaluation of the PBRs.
 46. Dr. Bikramjit Sinha, Sci-E attended the 3rd meeting of the expert committee on identification and conservation of biodiversity rich areas and Biodiversity Heritage Sites of the Meghalaya Biodiversity Board on 7th March, 2025 and provided inputs on the proposal for the creation of BHS at Mawpynthymmai, East Khasi Hills and Mawteng, Ri-Bhoi, Meghalaya.
 47. Dr. Uttam Saikia, Sci-D attended the Regional Inter-agency coordination meeting on Illegal Wildlife Trade organized by the WCCB at Guwahati on the 5th April, 2024
 48. Dr. Uttam Saikia, Sci-D attended the state level celebration of International Day for Biological Diversity at U Soso Tham Auditorium on the 22nd May.
 49. Dr. D. Khyntiam, Sci-D attended the Review Meeting of Participatory Programme on Exploration and Characterization of Fish Germplasm Resources and Indigenous Knowledge in North-Eastern Region of India organised by the Indian Council of Agriculture Research (ICAR) - National Bureau of Fish Genetic Resources (NBFGF) on 30th July, 2024 at ICAR Research Complex for North Eastern Region at Umiam, Ri-Bhoi, Meghalaya.
 50. Jennifer Lyngdoh, Sci-E and Officer-in-Charge attended a virtual meeting on 16th August, 2024 organized by ZSI Kolkata, convened under the chairpersonship of Ms. Leena Nandan, Secretary, MoEF&CC.
 51. Dr. P. S. Bhatnagar, Scientist-E and Officer-in Charge attended the closing ceremony of Vigilance Awareness-2024 week program as Chief Guest on 04.11.2024 at Office of Indian Bureau of Mines.
 52. Dr. P. S. Bhatnagar, Sci-E and Officer-in-charge attended Madhya Pradesh State Biodiversity meeting on 13.03.2025 at Bhopal, Madhya Pradesh in presence of Honourable Chief Minister Madhya Pradesh Sh. Mohan Yadav.
 53. Dr. Indu Sharma, Scientist-F and Dr. R. Bano, Scientist-E participated in the NARAKAS meeting on 19th July, 2024 and 13th January, 2025 at CAZARI, Jodhpur and Dr. R. Bano, Scientist-E received the 2nd prize in essay writing competition (Hindi) organized by NARAKAS.
 54. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended on invitation the event of IFS Trainees Convocation-2024 of Indira Gandhi National Forest Academy (IGNFA), Dehradun at Convocation hall of FRI, Dehradun, in this event the Chief Guest was The Hon'ble President of India Smt. Droupadi Murmu ji on 24 April, 2024.
 55. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun as nominated by The Director, ZSI had attended "47th Meeting of the Training, Research and Academic Council of Wildlife Institute of India" at the Board Room of Wildlife Institute of India, Dehradun on 26 April, 2024.
 56. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended virtual meeting to discuss about the 'Fauna Red Listing' held under the Chairpersonship of Ms. Nameeta Prasad, Joint Secretary, MoEFCC, New Delhi on 20 May, 2024.
 57. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had participated as nominated by The Director, ZSI in the "Uttarakhand State Board of Wildlife Meeting" held under the Chairmanship of Hon'ble Chief Minister of Uttarakhand Sh. Puskar Singh Dhammi at Secretariat Veerchandar Singh Gadhwal Conference Hall, Dehradun on 19 July, 2024.
 58. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had participated as External Member nominated by The Registrar, H.N.B. Garhwal University, Uttarakhand in the "Board of Studies of Dolphin (PG) Institute of Bio-Medical and Natural Sciences, Dehradun" for finalizing the course curriculum of B.Sc. Zoology and M.Sc. Zoology Course as per GoI National Education Policy held at the Meeting Hall of Dolphin Institute, Dehradun on 30 July, 2024.
 59. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended meeting with Prof. (Dr.) Pratap Singh, Ornithologist, Dungeer College, Bikaner, Rajasthan discussed on educational visit and

- internship of students of Dunger College at ZSI, NRC, Dehradun on 07 August, 2024.
60. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended meeting with the Hon'ble Chief Minister of Uttarakhand Shri Puskar Singh Dhammi ji on occasion of celebration of Himalayan Day Funation organized by UCOST at Mukhaya Sewa Sadan Hall Camp Office Chief Minister Residence on 09th September, 2024.
 61. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had participated in the MoEFCC "Meeting on Swachhta hi Seva" through virtual mode on 12th September, 2024.
 62. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had participated in the MoEFCC "Meeting on Special Campaign 4.0 for Institutionalizing Swachhta and minimising pendency in Government Offices" held at MoEFCC, New Delhi on 13th September, 2024.
 63. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended through virtual mode MoEFCC meeting on Review of eOffice implementation status in all 132 offices of the Ministry as part of Special Campaign 4.0 held on 21st September, 2024.
 64. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended through virtual mode meeting as External Expert Member of Research Advisory Committee (Forest Entomology), FRI (Deemed to be University) for evaluation of Ph.D. candidate for selection in the Ph.D. Programme on 26th September, 2024.
 65. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended "Wildlife Institute of India Training, Research and Academic Council (TRAC) Meeting" held at Board Room of Wildlife Institute of India, Dehradun on 04 October, 2024.
 66. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended meeting with Hon'ble Governor of Uttarakhand Lt. General Gurmeet Singh ji, and attended "Wildlife Week (02 to 08 Oct., 2024) Function Closing Ceremony" held at Uttarakhand Hon'ble Governor house Conference Hall organized by Uttarakhand Forest Department, Dehradun on 08 October, 2024.
 67. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had participated in the MoEFCC "Meeting of all the Head of Organizations, Nodal Officers of Division and Organization under the Ministry on Special Campaign 4.0 for Institutionalizing Swachhta and minimising pendency in Government Offices" through virtual mode on 16th October, 2024.
 68. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun had attended meeting through virtual mode on "Standing Committee on Government e-Marketplace (SCoGeM)" held under the Chairmanship of AS&FA, MoEFCC, New Delhi on 25 November, 2024.
 69. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun attended meeting and 1st Convocation Function of Sardar Bhagwan Singh University, Dehradun in the University on 21 February, 2025. The Chief Guest of the Convocation Function was Hon'ble Governor of Uttarakhand and the Special Guest Was Hon'ble Education Minister of Uttarakhand.
 70. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun attended meeting at Conference Hall of Rajbhawan Governor House Uttarakhand and the Hon'ble Governor of Uttarakhand released the book "Meri Yojana- Central Government" which covers 82 Central Government Institutions including ZSI, NRC, Dehradun with the brief details of these institutions working in the Uttarakhand State, provided information on the various schemes, jobs opportunities, how to apply for common public, students & researchers, prepared by Karyakaram Kriyanavayan Vibhag, Government of Uttarakhand on 24 February, 2025.
 71. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun attended meeting with Shri Sakesh Prasad Singh, Chief Controller of Account, MoEF&CC (Gol), New Delhi and his Team visited for Internal Audit of ZSI, NRC, Dehradun held in the Board Room of ZSI, NRC, Dehradun on 10 March, 2025.
 72. Dr. Archana Bahuguna, Scientist-F attended online Doctoral Advisory Committee meeting on 04.02.2025 for Planning of Ph.D. coursework for the WII-AcSIR Ph.D. Scholars of January and August 2024 batches for Wildlife Institute of India – for PhD student Ms. Tannu, topic of Ph.D. "Reticulated pythons in the Nicobar Archipelago, distribution, genetics and conservation".

73. Dr. Anil Kumar, Scientist-E & Officer-in-Charge attended the Meeting of the 'Standing Consultative Committee' organised by HoFF, Jharkhand Forest Department was attended on 26-04-2024.
74. Dr. Anil Kumar, Scientist-E & Officer-in-Charge attended the online meeting on 'Draft PWPR' organized by Addl. PCCF, Working Plan, Jharkhand Forest Department, Ranchi, on 04-09-2024.
75. Dr. Anil Kumar, Scientist-E & Officer-in-Charge attended the online meeting on 'Forests - Working Plan - DWPR of Karur Forest Division- SLSCC' organized by Principal Chief Conservator of Forests, Forest Head Quarters Building, Guindy - Velachery Main Road, Guindy, Chennai - 600 032, on 06-09-2024.
76. Dr. Anil Kumar, Scientist-E & Officer-in-Charge attended the meeting of State Biodiversity Board, Ranchi, Jharkhand, regarding the successful implementation of the Biodiversity Act, 2002 and Rules 2004 in Jharkhand State, on 10-09-2024.
77. Dr P. C. Pathania, Scientist-E attended a meeting to organize the 11th International Him Science Congress on Materials and Biological Sciences in collaboration with the Zoological Survey of India and the Him Science Congress Association. The event will be held at Government College, Bilaspur, HP, on November 16-17, 2024.
78. Dr. Avtar Kaur Sidhu, Scientist-E & Officer in Charge, attended online meeting convened under the chairpersonship of secretary Honorable Secretary, MoEF&CC, GOI, Ms. Leena Nandan, Secretary, MoEF&CC, Govt. of India will be visiting ZSI Kolkata on 16th August 2024.
79. Dr. Avtar Kaur Sidhu, Scientist-E attended online meetings regarding Special Campaign 4.0 for institutionalizing Swachhata and Minimizing pendency in Government Offices held under the Chairmanship of Sh. Tanmay Kumar, Special Secretary, MOEF&CC on 13th September 2024.
80. Dr Avtar Kaur Sidhu, Sci-F attended NARAKAAS meeting of Hindi on 20.06.2024.
81. Dr. Avtar Kaur Sidhu, Scientist-E, attended online meeting on Uploading of publication in the Integrated NIRANTAR Portal organized by technical Section, Hqs Kolkata on 25.07.2024.
82. Dr. Bineesh K.K. Attended the national conference meeting "OSICON-25" at NIO Goa from 5th to 7th February 2025
83. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge served as Vice Chancellor Nominee for selection of Guest Faculties for the Department of Management Studies, Pondicherry University, Port Blair Campus on 12th August 2024.
84. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attend the inaugural function of the International Conference on Applied Research in Engineering, Technology and Management organised by Pondicherry University, Port Blair campus on 16th August 2024.
85. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge served as expert member for selection of project personnel in the ongoing research project at Central Island Agricultural Research Institute, Port Blair on 21st August 2024.
86. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended interactive meeting with newly selected lecturers at the Department of Management Studies, Pondicherry University to review the ongoing research work on 7th October 2024.
87. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended meeting Principal Chief Conservator of Forests, and discussed about the upcoming Great Nicobar Projects 8th October 2024.
88. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended and presented the progress of the ANRC/ZSI in the Half Yearly Progress meeting of the Senior Officers during 23rd – 25th October 2024.
89. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge service an expert member in Departmental Promotion Committee (DPC) for review the administrative staff for promotion on 28th October 2024.
90. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended Half Yearly Monitoring meeting of the senior officers of the Regional Centres and Head Quarters during 23rd – 25th October 2024.
91. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended meeting with officials of District Collector, Trichy and his team on 2nd November 2024 along with Director, ZSI in connection with the allotment of land for SRC, ZSI, Chennai.
92. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended meeting with officials of District Collector, Ramanathapuram and his team (Tashildar, Azhagankulam & Keelakarai)

- on 3rd November 2024 along with Director, ZSI in connection with the allotment of land for MBRC, ZSI, Chennai.
93. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended meeting with the new Chief Secretary, A & N Islands, Dr. Chandra Bhushan Kumar, IAS on 26th November 2024 and discussed about the future activities of ZSI.
 94. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended meeting with the Director General of Police, A & N Islands, Shri. H.S. Dhaliwal, IPS on 27th November 2024 and discussed about the future visit to Narcondam Island and other inhabitant islands of A & N Islands.
 95. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge attended meeting on the RED Listing of faunal species held on 24th December 2024.
 96. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended meeting at Raj Niwas under the Chairmanship of Hon'ble Lt. Governor, A & N Islands on 7th January 2025.
 97. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended meeting at office of the Chief Secretary, A & N Islands on 24th January 2025 in connection with the Mitigation of Human Animal Conflicts in A & N Islands.
 98. Dr. Mrinal Kumar Das, Scientist-D attended the meeting at Directorate of Fisheries, A & N islands on 30th January 2025 in connection with the collection of Blood Clams (*Tegillarca granosa*) from Andaman and Nicobar Islands for the purpose of export.
 99. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended meeting with the officials of Sun Petrochemicals Pvt. Ltd., Mumbai on 17th February 2025 to discuss about the marine biodiversity studies.
 100. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended meeting hosted by RT Division in connection with the IFS training course to be conducted during 2025-2026 on 18th & 27th February 2025.
 101. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended meeting hosted by RT Division in connection with the training of other services and other stakeholders to be conducted during 2025-2026 on 28th February 2025.
 102. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge 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 4th, 7th, 10th, 11th, 17th, 21st, 24th, 27th and 28th March 2025.
 103. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended meeting under the Chairmanship Chief Secretary, A & N Administration in connection with the Great Nicobar Island developmental projects on 5th, 6th March 2025.
 104. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended the executive committee meeting of the Andaman Science Association at ICAR-Central Island Agricultural Research Institute on 13th March 2025.
 105. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge 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 19th March 2025.
 106. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended the meeting with Vice Chancellor, Pondicherry University, Puducherry on 19th March 2025.
 107. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge attended the Tourism Stakeholder meeting organised by Association of Andaman Tour Operators (AATO), and India Tourism as a special guest on 26th March 2025.
 108. Dr. J. S. Yogesh Kumar participated Audit Adalat meeting in MoEFCC office on 14.05.2024.
 109. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhaker Rai Scientist C attended meeting related NPS Oversight Mechanism on 3rd June 2024.
 110. Dr. J. S. Yogesh Kumar Scientist E participated Public hearing meeting organised by V.O.C. Port, Thoothukudi on 03.09.2024.
 111. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhaker Rai Scientist C participated in Swachhata Hi Sewa (SHS) Campaign meeting on 10.09.2024, 12.09.2024.
 112. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge, Dr. Karuthapandi.M, Scientist-D Attended a meeting Nodal officers of wetland Authority for the state of Telangana on 08.10.2024 held at Telangana Secretariat.
 113. Dr. Karuthapandi.M Scientist-D attended a meeting on "Eco-Tourism prospects and way

- forward in Telangana state" organized by Telangana Forest Development Corporation Ltd, Hyderabad on 22.06.2024 at Telangana.
114. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge and Staff of FBRCZSI Attended Wildlife week programme at CCMB-LaCONES and Dr. Deepa Jaiswal Delivered a Lecture on benefits of Aquatic Insects on 03rd October 2024.
 115. Dr. Muhamed Jafer Palot, Scientist-C, attended online meeting of expert committee of Kadalundi- Vallikunnu Community Reserve on 15 th January 2025 to discuss the issues related with the Community reserve organised by the Kozhikode Forest Division and the Management Committee of the Kadalundi – Vallikunnu Community Reserve.
 116. Dr. Anil Mohapatra, Scientist-E & officer-in-Charge had attended the Divisional Level Co-ordination meeting with local NGOs and CBOs on Protection and conservation of Olive Ridley Sea turtle for season, 2024-25 on 29.11.2024.
 117. Dr. Anil Mohapatra, Scientist-E had attended the Department Research Committee meeting, Department of Biotechnology, Berhampur University, Bhanja Vihar on 16th May, 2024
 118. Dr. Anil Mohapatra, Scientist-E & Officer-in-Charge had attended the Departmental Research Committee Meeting of Department of Biotechnology, Berhampur University, Berhampur on 18.12.2024.
 119. Dr. S.D. Gurumayum, Scientist – E Attended Technical Committee meeting for State Biodiversity strategy and action plan (SBSAP) on 23rd Jan 2025 at Civil secretariat, Itanagar with Member Secretary APBB and other experts from various institutes.
 120. Dr. S.D. Gurumayum, Scientist – E attended a VC meeting called by the Administrative Ministry on 4th Sept., 2024 which was chaired by Shri Satyajit Mishra, the Joint Secretary Ministry of Environment Forest and Climate Change on Sexual harassment.
 121. Dr. S.D. Gurumayum, Scientist – E attended the 2nd meeting of the State board for wildlife on 28th October 2024 at conference hall of the office in Civil secretariat where Honourable CM of Arunachal Pradesh, Forest Minister and PCCFD (HoF) attended the function.
 122. Dr. S. Balakrishnan, Scientist – E, participated as guest of Honor for the Inaugural function of newly installed facilities and Commemorating "27th Anniversary 2024" on 31st August 2024 @ 10.30 AM, organized by Digha Science Centre, Ministry of Culture, Digha.
 123. Dr. S. Balakrishnan, Scientist – E and Dr. P.C. Tudu, Scientist – D, attended meeting of all the Head of Organizations, Nodal Officers of Division and Organizations under the Ministry, Hosted by MOEFCC on October 16, 2024.
 124. Dr. S. Balakrishnan, Scientist – E & Officer-in-Charge, attended meeting on SCoGeM under the Chairmanship of AS & FA on 25.11.2024 at 03:30 PM in Teesta Conference Hall, Vayu Wing, Indira Paryavaran Bhawan, New Delhi.
 125. Dr. S. Balakrishnan, Scientist – E & Officer-in-Charge, attended as a resource person one-day "Awareness Program and Distribution of Implements to SC Beneficiaries for Livelihood Enhancement," event organized under the externally funded project "National Innovations on Climate Resilient Agriculture (NICRA)" on 28 February 2025 at 11:00 AM Digha Regional Station, ICAR-CMFRI, Digha, West Bengal.

Lectures Delivered by Scientists: 343

1. Dr. Santosh Kumar, Scientist E, delivered lecture on Microscopy, computations and its applications in Taxonomy for Ph. D. Coursework on 20th December, 2024 at ZSI, Kolkata.
2. Dr. Santosh Kumar, Scientist E, delivered lecture on Bio indicative potential of soil ciliate. In: A National Webinar on the theme "Soil Invertebrates and Restoration Ecology" in connection with World Environment Day, organized by The EIACP Centre on Biodiversity (Fauna), ZSI, Kolkata, on 3rd June, 2024.
3. Dr. Jasmine Purushothaman, Scientist E, delivered lecture on Microscopy, computations and its applications in Taxonomy for Ph. D. Coursework and its practical work on 20th December, 2024 at ZSI, Kolkata.
4. Dr Anjum N. Rizvi Scientist E, delivered lecture on Soil Fauna & Taxonomic Publications to 25 RET students on 16th December, 2024.
5. Dr Anjum N. Rizvi Scientist E, delivered lecture to 30 students Department of Zoology,

- Nagaland University on Soil nematodes: collection, preservation and Identification on 3rd Sept.2024.
6. Marimuthu N. Sci-E 2024. Lecture on Structural variability on Scleractinian fauna to the Students (28 students) of Nagaland University, Lumami 798627 at General Non-Chordata section, ZSI-HQ, Kolkata on 04.09.2024
 7. Chandran R. 2024. Lecture on octocorals to the Students (28 students) of Nagaland University, Lumami 798627 at General Non-Chordata section, ZSI-HQ, Kolkata on 04.09.2024
 8. Marimuthu N. Sci-E 2024. Lecture on Corals and Reef habitat of Indian coastal ecosystem to the Students (12 students) of Dhanamanjuri University, Manipur at General Non-Chordata section, ZSI-HQ, Kolkata on 27.09.2024
 9. Chandran R. 2024. Lecture entitled, "Coral reefs and their importance" to Nature Education Camp students (80 members) organised by Marine National Park, Dwaraka Range (State Forest Department, Gujarat) on 10-11 December 2024.
 10. Surendar C. 2024. Assistant Zoologist has given a lecture entitled, "Marine Life with special notes on Echinodermata" to Nature Education Camp students (80 members) organised by Marine National Park, Dwaraka Range (State Forest Department, Gujarat) on 10.12.2024.
 11. Marimuthu N. Sci-E 2025. Keynote address entitled, "Advancement of Research tools and career opportunities in Bio-Sciences" to the PG Students of Vivekanandha Arts and Science College for Women, Sankari, Salem, Tamil Nadu on 21.01.2025 as per DZSI approval.
 12. Ahmed S. 2025. Online lecture delivered on Ecology and Taxonomy of Annelids with special Emphasis on Earthworms on dated 28.2.2025 to MSc student (14 no.) at Wildlife Institute of India, Dehradun.
 13. Surendar C. 2025. Delivered an awareness creation talk along with other survey team members on Marine Ecosystem Conservation with special reference to Echinoderms to 60 students and teaching staff of Government Sardarvallabai Patel Senior Secondary School, Kalpeni Island, UT of Lakshadweep on 01.03.2025. The program is organized by Research and Environmental Education Foundation (REEF), UT of Lakshadweep.
 14. Chandran R. 2025. Lecture entitled, "Coral reefs – From Biodiversity to Restoration in India" National Seminar on 'Exploring the hidden treasures of our Ocean', organized by Rani Anna Govt. College for Women, Tirunelveli, Tamil Nadu-627008 on 14.03.2025 as per DZSI approval.
 15. Marimuthu N. Sci-E 2025. Keynote address entitled, "Systematics of Scleractinian fauna: Validation through Multivariate analyses" to the PG Students of Arulmigu Palaniandavar Arts College for Women, Palani, Tamil Nadu on 20.03.2025 as per DZSI approval.
 16. . Dr. K. Valarmathi, Sci-E, delivered lecture on Collection, Preservation and Identification of Coral Reef Associated Crustaceans on 17.04.2024 in DST-SERB sponsored Karyashala on hands-on training on Corals and Coral associated faunal communities: Taxonomy & Monitoring, Organized by ZSI/ Kolkata.
 17. Dr. Tamal Mandal, Scientist D, delivered a lecture on Coral Reefs of India- Structure and Function for the 25 Post Graduate students and Ph.D. Scholars under the DST-SERB Karyashala: High End Workshop on Corals and Coral Associated Faunal Communities: Taxonomy and Monitoring on 16th April 2024.
 18. Dr. Tamal Mandal, Scientist D, delivered a lecture on Importance of Taxonomy for the 25 Post Graduate students and Ph.D. Scholars under the DST-SERB Karyashala: High End Workshop on Corals and Coral Associated Faunal Communities: Taxonomy and Monitoring on 22nd April 2024.
 19. Dr. Tamal Mandal, Scientist D, delivered a lecture on Methodologies to assess health of Coral Reefs for the 25 Post Graduate students and Ph.D. Scholars under the DST-SERB Karyashala: High End Workshop on Corals and Coral Associated Faunal Communities: Taxonomy and Monitoring on 22nd April 2024.
 20. Dr. Tamal Mandal, Scientist D, delivered an invited lecture on 'Biodiversity of Sundarbans' during Stakeholder Consultation Workshop On 'Economic Accounting for a Sustainable and Inclusive Blue Economy in India: Case of Sundarbans' organized by National Institute of Advanced Studies, Bengaluru and supported by Deep Ocean Mission (DOM), Ministry of Earth Sciences (MoES), GOI on 24th February 2025.
 21. Dr. Sheela, S., Sci-E delivered a lecture on

- "Collection, Preservation and Curation of Insect Fauna" to the Ph.D enrolled students of Zoological Survey of India as a part of Ph.D coursework curriculum 13.12.2-24; delivered lecture on "Insects" to the students of Himalayan Nature and Adventure Foundation on 26.12.2024.
22. Dr. Jayita Sengupta, Sci-B 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 07.03.2025.
 23. Dr. Jayita Sengupta, Sci-B delivered lecture on "Beneficiary & Harmful Diptera" to the students of Ph.D. course work for ZSI researchers on 27.12.2024.
 24. Dr. Rajmohana K, Sci-E delivered one lecture on Wildlife and Faunal Diversity of India- At Mankar College, East Burdwan, on 4th Oct, during Wildlife week celebration, 2024.
 25. Dr. Navneet Singh, Sci-E delivered a talk on 'Taxonomy and biogeography of Silk Moths' on 24.09.2024 in a Capacity Building programme on "Socio Economically Important insects for improving livelihood" from September 24 – 26, 2024.
 26. Dr. Navneet Singh, Sci-E delivered an invited talk on 'Moths: Denizens of night and drivers of pollinations' in the 'International Science Conference' on September 13, 2024 at DAV College, Jalandhar.
 27. Dr. Navneet Singh, Sci-E delivered one invited talk on 'Pollen transportation by moths (Lepidoptera): updates from Indian Himalaya' in a webinar titled 'Recent Advances in Forest Entomology and Pathology' on January 30, 2025 hosted by FRI, Dehradun.
 28. Dr Devanshu Gupta, Sci-D was invited to deliver a lecture titled "From Dung beetles to decomposers: the essential roles of soil invertebrates" in the National Webinar on the theme "Soil Invertebrates and Restoration Ecology" in connection with World Environment Day on the forenoon of 3rd June, 2024, organised by EIACP Centre on Biodiversity (Fauna), ZSI, Kolkata.
 29. Dr Devanshu Gupta, Sci-D was invited to deliver a lecture and take a practical session in the "Hands-on Training on Biological Parameters" Biomonitoring (Benthos Invertebrate Monitoring), Bacteriological (E. coli, Fecal Coliform, Fecal Streptococci & Total Coliform) and Toxicological (Bio-assay & Dimensionless Toxicity Test), organized by Central Pollution Control Board, Delhi from 11.02.2025 to 12.02.2025.
 30. Dr Devanshu Gupta, Sci-D was invited to deliver a lecture and take a practical session in the "Hands-on Training on Biological Parameters", organized by Central Pollution Control Board, Delhi from 26.09.2025 to 27.09.2025.
 31. Dr Devanshu Gupta, Sci-D was invited to deliver a lecture in the "Hands-on Training on Biological Parameters" Bio monitoring (Benthos Invertebrate Monitoring), organized by Central Pollution Control Board, Delhi on 19 December 2024 in online mode.
 32. Dr Devanshu Gupta, Sci-D was invited to deliver a lecture on Numerical taxonomy, Phenetic classification: basic concepts, definitions, Advantages, disadvantages, Cladistic classification: basic concepts, definitions, advantages, disadvantages and Evolutionary/ Phylogenetic classification: basic concepts, definitions, advantages, disadvantages for Paper II of Ph.D. Course Work in ZSI on 25 November 2024 at Annandale Hall.
 33. Dr Devanshu Gupta, Sci-D delivered lectures on Collection, Preservation and Identification of order Coleoptera to the students of Nagaland University at Coleoptera Section, ZSI, HQs., Kolkata on 03.09.2024.
 34. Dr Devanshu Gupta, Sci-D delivered a lecture on 'Aquatic Insects in India: Diversity, Taxonomic Status, Biology, and Bio-indication' to the MSc. (Freshwater Ecology) students of Wildlife Institute of India through video conferencing on 25.02.2025.
 35. Dr. T. Kubendran, Scientist-D served as a Keynote Speaker and delivered a talk on "Introduction to insects, Anatomy and physiology" on 5th February, 2025 to the participants and the event which emphasizes the Culturing and Rearing of Drosophila under "Workshop on Hands on Training in Culturing and Rearing of Drosophila - 2025" organized by the Department of Human Genetics and Molecular Biology, Bharathiar University, Coimbatore – 641 046, Tamil Nadu, India on 3rd-7th, February, 2025.
 36. Dr. T. Kubendran, Scientist-D served as a resource persons and delivered a talk on "Basic concept of animal Taxonomy and history of Taxonomy" to Research Scholars of Ph.D Course work organized by ZSI on 22.11.2024.

37. Dr. T. Kubendran, Scientist-D delivered lecture on aquatic insect groups of MIO section and showed the museum display of insects to students from Ramakrishna Mission Vidyamandir College from Belur on 13th September.
38. Dr. Swetapadma Dash, Scientist-E, delivered a lecture on "Collection, Preservation and Identification of Zoological Specimens" to a team of 30 students of M.Sc. (Sem - III), from Department of Zoology, Nagaland University, on 3rd September 2024.
39. Dr. Swetapadma Dash, Scientist-E, delivered Talk on "Socio-Economic importance of Hemiptera" to a team of students from South 24 Parganas on 26th September, 2024.
40. Dr. Swetapadma Dash, Scientist-E, delivered lecture on "Economic Zoology" for Calcutta University, Ph. D Course Work (Paper II) conducted in ZSI on 27th December 2024 at ZSI, HQ.
41. Dr. Anil Kumar Dubey, Scientist- E, delivered a lecture on "An introduction to Invasive and pest whiteflies of India" in a National Conference on "Invasive Alien Fauna: Threats & Challenges" organized by the Zoological Survey of India, Kolkata on 25th and 26th March 2025, at Hotel Hindustan International, Kolkata.
42. Dr. Anil Kumar Dubey, Scientist- E, delivered a lecture on 'Lac Insect Cultivation: Host association, resins and natural enemies' in Capacity building programme on "Socio Economically Important insects for improving livelihood" held at ZSI, HQ, Kolkata from 24th to 26th Sept. 2024.
43. Dr. Anil Kumar Dubey, Scientist- E, delivered a lecture on "Cladistics classification: basic concepts, definitions, advantages, disadvantages" for Calcutta University, Ph. D Course Work conducted in ZSI, HQ, Kolkata on 25th November 2024.
44. Dr. Anil Kumar Dubey, Scientist- E, delivered a lecture on "An introduction to Invasive and pest whiteflies of India" in two days National Conference on "Invasive Alien Fauna: Threats & Challenges" held from 25th to 26th March 2025, at Hotel Hindustan International, Kolkata.
45. Dr. Atanu Naskar, Sci-C delivered a lecture on dipteran flies in a webinar at online workshop on "Collection, preservation and identification of dipteran insects" on 30th May, 2024 organized by Dept. Of Entomology, JNKVV & CZRC, ZSI, Jabalpur.
46. On December 27, 2024, Dr. Atanu Naskar, Sci-C delivered a lecture as part of the PhD coursework for ZSI researchers on the topic "Beneficial, Harmful, Medicinal, and Economically Important Animals."
47. Dr Souvik Sen, Scientist-E, delivered a lecture on 'Collection, preservation and identification of spider fauna' in the PhD course work of University of Calcutta at ZSI, Kolkata on 2nd December, 2024.
48. Dr.H.Pillai, Sci-E delivered a talk on 'Collection Preservation & Identification of Marine Fish' to the the students of Nagaland University visited section on 04/09/24.
49. Dr. L. Kosygin Singh, Sci-E delivered a lecture on Taxonomy of Sisorid catfishes for the training program on "Inland Fish Taxonomy and Biodiversity Assessment" organised by the ICAR-CIFRI, Barrackpore, West Bengal on 16th December, 2024.
50. Dr. K. Deuti, Sci-D delivered four lectures in different colleges of many districts of West Bengal during the reporting period.
51. Dr. P.P. Mohapatra, Sci-E delivered an invited talk on "Using historical collections to resolve long-standing taxonomic problems for Indian reptiles" in the National seminar on "21st Century Collection-based Natural History organized by Central University, Calicut, Kerala.
52. Dr. P.P. Mohapatra, Sci-E attended Odisha Wildlife Conclave-3 and delivered an invited talk in a two-day National Seminar on "Wildlife Conservation- Growing Human Dimensions" on 3rd & 4th March 2025 at Jayadev Bhawan, Bhubaneswar.
53. Dr. P.P. Mohapatra, Sci-E attended International Conference on Advances in Systems Biology (ICASB 2025) from 6th March to 8th March 2025 at Dr. Harisingh Gour Vishwavidyalaya and delivered a talk on "Taxonomy and Conservation Challenges in Indian Reptiles".
54. Dr. Imran Alam, Scientist B attended a group of 15 B.Sc. students from Bankura Sammilani College during their visit to the ZSI Bird Section on 13th December 2024. He provided them with a brief lecture on avian diversity and the significance of the National Zoological Collection.
55. Dr. Imran Alam, Scientist B delivered a brief lecture to the trainee Forest Range Officers from Chhattisgarh state forest Academy during their visit to the Bird Section at Zoological Survey of India on 14th February

- 2025.
56. At Sundarbans Tiger Reserve, Dr. Amitava Majumder, Scientist B, lectured on "Bird Communities of the Sundarbans: Understanding Diversity and Identification."
 57. Dr. M. Kamalakannan, Scientist- C delivered an invited lecture on "Use of Camera traps in Wildlife Studies" to the college students, during a workshop on 'Use of Camera traps and CCTV for wildlife Monitoring' at Durgapur Government College, Durgapur, West Bengal on Saturday, the 13th of July 2024.
 58. Dr. M. Kamalakannan, Scientist- C delivered an invited lecture on 'Tricho-taxonomy of mammals and identifying mammals using dentition patterns', during the workshop titled "Building Entrusted Networks and Strengthening Law Enforcement with a Prime Focus on Safeguarding Pangolins," held on the 4th and 5th of November 2024 in Accra, Ghana through Video Conferencing on 5th November 2024.
 59. Dr. M. Kamalakannan, Scientist- C delivered an invited lecture and provided a hands on training on 'Tricho-taxonomy of Indian mammals' to the newly recruited Senior Zoological Assistants of ZSI, during a collaborative training workshop on molecular analysis held at the HQ, ZSI on 31.1.2025.
 60. Dr Mukesh Thakur Scientist D delivered a popular lecture series entitled "Biotechnology: A Catalyst for Human and Environmental Development" sponsored by Department of Biotechnology (DBT), Government of India at Mirinda House, University of Delhi on 22 Oct 2024. Title of talk: "Speciation and Conservation: the power of genetics in monitoring wildlife and safeguarding biodiversity"
 61. Ms Debashree Dam, Scientist - C, ZSI, Kolkata delivered a lecture on 'Role of Women in Environment Conservation' on 15th March 2025 at Kanpur Village, Howrah, West Bengal as part of Women's day Celebration and Basant Utsav. The program was organised by Kanpur Seba Sangha
 62. Dr. Dola Roy, Scientist – B, acted as resource person in Ph.D. coursework for ZSI researchers on December 27, 2024. I have taken one class on the topic "Economic Zoology" (paper II) and also submitted the questions for final evaluation to the concerned committee.
 63. Dr. Dola Roy, Scientist – B, delivered a keynote lecture on "Silent Invaders: Multisystemic Effects of Polystyrene Microplastics on fishes" at Fakir Mohan University, Balasore, Odisha on 8th and 9th March, 2025.
 64. Dr. Dola Roy, Scientist – B, demonstrated a practical session to Students of PG Dept. of Zoology (Fisheries special paper) Asutosh College, University of Calcutta on March 3, 2025.
 65. Dr. Dola Roy, Scientist – B, delivered a keynote lecture on "Tiny Plastics, Big Problems: How Microplastics are Transforming Fish from the Inside Out" at Bhairab Ganguly College, WBSU on 11th March, 2025.
 66. DR. Chitra J, Scientist D rendered lecture in international conference on environmental conservation & sustainability – A Biological Perspectives (ECS-B) Do diversity of Rotifera are important in East Kolkata Wetlands, an incredible Fishermen livelihood "organised by Laaboratory of Ecology and Environmental Monitoring, PG & Research Deartment of Zoology, C Abdul Hakeem college (autonomous), Vellore in Hybrid mode – online.
 67. Dr. Vikas Kumar, Sci-E delivered lectures on 29th November 2024 to enrolled Ph.D students under ZSI with collaboration with Calcutta University on Evolutionary/ Phylogenetic classification: basic concepts, definitions, advantages, disadvantages; Different numerical methods for establishment of phylogenetic classification; Distance methods (distance of similarity matrix and cluster analysis), overview of distance methods; Character methods (character state matrix), problems in construction of a cladogram; Overviews of character- based methods
 68. Dr. Kaomud Tyagi, Sci-D delivered lectures on 15th December 2024 to enrolled Ph.D students under ZSI with collaboration with Calcutta University on DNA barcoding techniques, and species delimitation methods.
 69. Dr. Vikas Kumar, Sci-E delivered lecture on DNA barcoding on 27th January 2025 under the training GIS Tools, DNA Barcoding and Forensic studies.
 70. Dr. Kaomud Tyagi, Sci-D delivered lecture on DNA barcoding on 27th January 2025 under the training GIS Tools, DNA Barcoding and Forensic studies.
 71. Dr. Vikas Kumar, Sci-E delivered Invited lecture on 26th March 2025 "Genetic Insights into the Invasive Pest Thrips parvispinus (Karny)

- Affecting Chilli Crops in India: Taxonomy, DNA Barcoding, and Genomic Characterization" in National Conference on "Invasive Alien Fauna: Threats and Challenges" to be held during 25 & 26 March, 2025.
72. Dr. P. G. S. Sethy, Sci-D delivered a lecture to Participants of DST-SERB Karyashala on 20th April, 2024.
 73. Dr. P. G. S. Sethy, Sci-D delivered a lecture to Museology students from University of Calcutta on 25th April, 2024.
 74. Dr. P. G. S. Sethy, Sci-D delivered a lecture to students from Zoology Department of Bankura Samilani College visited the section on 13th December, 2024.
 75. Dr. P. G. S. Sethy, Sci-D delivered a lecture to students of Zoology Department Govt. Science college, Jabalpur (Workshop on Taxonomy, Preservation, Museology and Basic Geospatial technology) on 23.01.2025.
 76. Dr. Uttam Saikia, Sci-D delivered a lecture "Relevance of taxonomic research in the Indian context" was delivered to the BSc Zoology students of St Anthony's College, Shillong on the 10th July, 2024.
 77. Dr. Uttam Saikia, Sci-D delivered "The species problem and Charles Darwin" lecture at the University of Science Technology Meghalaya, Baridua on the 12th February, 2025.
 78. डॉ. अपर्णा एस कलावटे, वैज्ञानिक-ई, ने सीपीसीबी में दैनिक आधिकारिक कार्य में पत्राचार और टिप्पणी पर अतिथि व्याख्यान दिया
 79. Dr. K. P. Dinesh, Scientist-E delivered a talk on the topic "Amphibian Diversity - an Indian Scenario" on Tuesday, 9th July 2024 at Institute for Natural History Education and Research, Pune as a part of their Certificate Course in Herpetology.
 80. Dr. A. S. Kalawate, Scientist-E, delivered a lecture on Forensic entomology on 23.07.2024 in the One Week Faculty Development Program (FDP) on "Forensic Science Innovations: Transforming Investigations" organized by the Department of Chemistry, Biochemistry & Forensic Sciences (CBFS) Amity School of Applied Sciences Supported by DST-VIA FIST GRANT NO. SR/ FST/CS-I/2022/263(C) from 22-26 July 2024 on virtual mode.
 81. Dr. A. S. Kalawate, Scientist-E, attended an Inaugural talk on National Moth Week by Dr V Shubhalaxmi on July 20, 2024 organized by iNaturewatch foundation as a part of National Moth week celebration.
 82. Dr. A. S. Kalawate, Scientist-E, attended a talk on Unique Moths and their Behavior by Dr Shashank P. on Jul 20, 2024 organized by iNaturewatch foundation as a part of National Moth week celebration.
 83. Dr. A. S. Kalawate, Scientist-E, attended a talk on Common micromoths of India on the occasion of Brochure launch of Common micromoths of India by Dr. Shashank P. and Sanjay Sondhi organized by Titli trust, Dehradun on 21.07.2024.
 84. Dr. A. S. Kalawate, Scientist-E, presented a poster on "Studies on the external male genitalia of eight species of white grubs (Coleoptera: Scarabaeidae: Melolonthinae, Rutelinae)" in the Animal Taxonomy Summit-2024 on 01.07.2024.
 85. Dr. A. S. Kalawate, Scientist-E attended and delivered an invited talk titled "Research trends and gap in scarab beetle status in India" at 2nd European Scarab Symposium on 26.07.2024 organised by Natural History Museum, Vienna, Austria held from 25.07.2024 to 27.07.2024.
 86. Scientists of the centre delivered lecture and undertook practicals on various topics in the Capacity Building Training Workshop on "Methods in Faunal Collection, Preservation and Identification" organized by the Zoological Survey of India, Western Regional Centre, Pune from 12th to 16th August 2024.
 87. Dr. K. P. Dinesh, Scientist-E, delivered an online talk on 17/08/2024 to the students of M.Sc. Wildlife and Conservation, Bharathiya Vidyapeeth University, Pune on the topic "Basics of Amphibian Taxonomy and Amphibian Diversity in India".
 88. Dr. A. S. Kalawate, Scientist-E delivered a presentation talk on Common Butterflies and Moths of Western Ghats in a one-day seminar on "Lesser-Known Wildlife of Sahyadri – Frogs and Butterflies" on 04.10.2024 organised by ZSI, WRC, Pune on the occasion of Wildlife Week celebration.
 89. Dr. K. P. Dinesh, Scientist-E delivered a talk on the Status of Amphibian Diversity in India on the occasion of Wildlife Week celebration a seminar on "Lesser-Known Wildlife of Sahyadri- Frogs and Butterflies" organised by ZSI, WRC, Pune on 04.10.2024.
 90. Dr. K. P. Dinesh, Scientist-E delivered lecture on the topic 'Integrative Taxonomy' to the M. Sc Zoology III Semester students of Zoology Department, Pune University on 14/10/2024.
 91. Dr. Md. Jafer Palot, Scientist-C, participated in the Wildlife Day Celebration at Aralam

- Wildlife Sanctuary, Kannur district, Kerala on 3rd October 2024 and delivered a talk on Importance of Aralam WLS.
92. Dr. Sameer Kumar pati, Assistant Zoologist, delivered a lecture on "Animal Taxonomy" to the M.Sc. students of Savitribai Phule Pune University at ZSI, WRC, Pune on 17th October 2024
 93. Smt. Shabnam Ansari, Senior Zoological Assistant delivered a talk on application of DNA barcoding to M.Sc. students of Savitribai Phule Pune University 14.10.2024 at WRC, Pune.
 94. Dr. Basudev Tripathy, Scientist-E and Officer-in-Charge presented an invited talk in the Department of Zoology, Berhampur University, Odisha on the topic "Unique Marine Threatened Fauna of Odisha-Sea Turtles and Horseshoe Crabs" on 07.11.2024.
 95. Dr. A. S. Kalawate, Scientist-E delivered a talk on "Diversity of Moths" in the Certificate Course on "Arthropod Biology" organized by the Institute of Natural History, Education and Research, Pune on 08.11.2024 through virtual mode.
 96. Dr. S. K. Pati, Assistant Zoologist delivered a talk on "Crustaceans—crabs" in the Certificate Course on "Arthropod Biology" through online mode organized by the Institute of Natural History, Education and Research, Pune 08.11.2024.
 97. Dr. K. P. Dinesh, Scientist -E attended and delivered a lead talk on the topic "Amphibian Diversity in India and their Conservation Status" in two days International Conference on 'Pure and Applied Sciences (IConPAS-2K25) held on 04.01.2025 and 05.01.2025 jointly organised by Department of Zoology, Sharnbasava University and Sharnbasveshwar College of Science, Kalburgi.
 98. Dr. S.S. Talmale, Scientist-C delivered a lecture and practical demonstration on collection, preservation and identification of small mammals to the M. Sc. Wildlife Conservation Action students of Bharati Vidyapeeth, Pune on 23.01.2025.
 99. Scientists and Scientific staff provided lectures and practical training for OJT students from Nowrosjee Wadia College, Pune from 13.01.2025 to 31.01.2025.
 100. Scientists and Scientific staffs of WRC, Pune attended lecture on 'Benson, Godwin-Austen and the current status of studies on non-marine molluscs of India' delivered by Dr. Arvind N. A from ATREE, Bangalore on 06.01.2025.
 101. Dr. S. K. Pati, Assistant Zoologist delivered a guest lecture on "Animal Taxonomy and Career Opportunities in Zoology" for the B.Sc. students of Dr. D.Y. Patil Arts, Commerce & Science College, Pimpri, Pune, as a resource person on 03.01.2025.
 102. Dr. Basudev Tripathy, Scientist-E and Officer-in-Charge & Dr. K. P. Dinesh, Scientist -E delivered a lecture to 11th Garde students of PM Shree K.V.No.1., Dehu Road, Pune students about the topic "Biology Reimagined: The Mathematical Blueprint of Synthetic Life and DNA Barcoding" on 01/02/2025 as a part of 'Mentoring by an Eminent Experts'.
 103. Dr. Basudev Tripathy, Scientist-E and Officer-in-Charge delivered an invited talk on Animal Taxonomy at St. Xavier college, Mumbai on 21.02.2024.
 104. Dr. A. S. Kalawate, Scientist-E, Dr. S.S. Talmale, Scientist-C, Dr. S. R. Patil, Scientist-B and Dr. S. K. Pati, Assistant Zoologist delivered lectures and practical demonstration on Collection, Preservation and Identification of Mammals, Spiders, Insects and Animal taxonomy to the M. Sc. (Zoology) students of Department of Zoology, in two days Capacity Building On-field Training Workshop on "Biodiversity Studies" from 7th to 8th February 2025 at Shivaji University, Kolhapur under a MoU activity.
 105. Dr. A. S. Kalawate, Scientist-E delivered two lectures: 1. Collection, Preservation and Identification of Lepidoptera fauna. 2. Methods in Entomology: Collecting, Preservation, Curation and Identification of some common Entomofauna and acted as a resource person under a Capacity Building Workshop on "The Art of Entomology: Expert techniques for Insect identification, Preservation and Conservation organised at Department of Zoology, Tuljaram Chaturchand College, Baramati on 15.02.2025.
 106. Dr. A. S. Kalawate, Scientist-E delivered an invited talk on "Diversity and Distribution pattern of the fairies of the day and angels of the night" on 10.02.2025 at Department of Zoology, Fergusson College on the occasion of Darwin's Day celebration.
 107. Scientist of the center delivered lecture on General Techniques for Insect collection, curation and conservation in a capacity Building Training workshop "Methods in

- Collection, Preservation and Identification of Fauna" for the Students of Shri Shivaji Science College, Amravati on 21.03.2025 at ZSI, Pune.
108. Dr. Sanjay Paunikar, Scientist-E, delivered a lecture on collection, preservation and identifications of Pisces at ZSI/CZRC/ Jabalpur in training programme of M.Sc students of Govt. Home Science on 01.04.2024.
 109. Dr. Sandeep Kushwaha, Scientist-C, delivered a lecture on collection, preservation and identifications of Museum specimens at ZSI/CZRC/ Jabalpur in training programme of M.Sc students of Govt. Home Science on 09.04.2024.
 110. A lecture was delivered by Dr. P. S. Bhatnagar, Sci-E & O/c on faunal groups under training programme of M.Sc. students of CSJM Kanpur University & Sagar University, Madhya Pradesh on 14.05.2024.
 111. A lecture was delivered by Dr. P. S. Bhatnagar, Sci-E & O/c on "Linking taxonomy with conservation" to M.Sc. students of Sagar University, Madhya Pradesh on 22.05.2024.
 112. A lecture on general collection, preservation and identifications of Insects in "Workshop on Collection, Preservation and Identification of Insects" at Department of Entomology, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) on 27.05.2024 delivered by Dr. P. S. Bhatnagar, Sci-E & O/c.
 113. A lecture on general collection, preservation and identifications of order Orthoptera in "Workshop on Collection, Preservation and Identification of Insects" at Department of Entomology, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) on 30.05.2024 delivered by Dr. P. S. Bhatnagar, Sci-E & O/c.
 114. A lecture was delivered by Dr. S. D. Paunikar, Sci-E on faunal groups under training programme of M.Sc. students of CSJM Kanpur University & Sagar University, Madhya Pradesh on 16.05.2024.
 115. A lecture on general collection, preservation and identifications of order Odonata & order Lepidoptera: Moth" at Department of Entomology, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) on 28.05.2024 delivered by Dr. S. D. Paunikar, Sci-E.
 116. A lecture was delivered by Dr. Sandeep Kushwaha, Sci-C on collection, preservation and identifications of Museum specimens at ZSI/CZRC/ Jabalpur under training programme of M.Sc students of CSJM Kanpur University, Madhya Pradesh on 09.05.2024.
 117. A lecture was delivered by Dr. Sandeep Kushwaha, Sci-C on taxonomy of Lygaeidae & Coreidae of Madhya Pradesh at ZSI/CZRC/ Jabalpur in under training programme of M.Sc students of Sagar University, Madhya Pradesh on 10.05.2024 & 16.05.2024.
 118. A lecture on collection, preservation and identifications of Order Hemiptera in "Workshop on Collection, Preservation and Identification of Insects" at Department of Entomology, Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.) on 29.05.2024 delivered by Dr. Sandeep Kushwaha, Sci-C.
 119. A lecture on "hotspots of biodiversity" on international biodiversity day on 22.5.24 at ZSI Jabalpur, delivered by Dr. Sandeep Kushwaha, Sci-C.
 120. Dr. P. S. Bhatnagar, Scientist-E & O/c delivered lecture on "कार्यालय में नोटिंग" in one-day workshop on Hindi on 23.08.2024.
 121. Dr. Sanjay D. Paunikar, Scientist-E delivered lecture on important of Insect (Moths: Lepidoptera) at ZSI, CZRC, Jabalpur in one-day workshop on Hindi on 23.08.2024.
 122. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on "Science and Rajbhasha" during one-day workshop.
 123. Mr. Akhil Nair, Asst. Zool. delivered a lecture on "तितलियों का पर्यावरण से संबंध" during हिन्दी कार्यशाला।
 124. Dr. P. S. Bhatnagar, Scientist-E & O/c delivered a lecture during a training programme on parataxonomy and Dr. Sandeep Kushwaha, Sci-C delivered a lecture on "Entomofauna diversity of Chhattisgarh, India" in Skill development in Para-taxonomy & biodiversity conservation training organized by Chhattisgarh State Biodiversity Board, Raipur on 2nd and 03rd August 2024.
 125. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on effect of environmental condition on faunal diversity of forest area of Jabalpur on 10.08.2024 at ICMR, NIRTH, Jabalpur.
 126. Dr. P. S. Bhatnagar, Scientist-E and Dr. Sandeep Kushwaha, Sci-C delivered a lecture on Lesser known species of Chhattisgarh at two-day national conference on "Wildlife Biodiversity and Minor Forest Produce Treaty Approach Based on "@2047" organized under the joint aegis of Atal Bihari Vajpayee University, Bilaspur and Zoological Survey of India, Jabalpur dated 07.10.24.
 127. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on the official language working

- policy and the working system of the Zoological Survey of India during the Hindi Pakhwara in the Survey of India, Jabalpur on 26.09.24.
128. Dr. Sandeep Kushwaha, Sci-C delivered a lecture at Five days Karyasala-Jigyasa organized by MPCST, Vigyan Bharti and Veterinary University Jabalpur on 26.10.24.
 129. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on Fauna of Madhya Pradesh on 18.11.24 at of Mahakaushal Vigyan Mela and Arogya expo 2024 organized by Madhya Pradesh counsel of science and Technology, Vigyan Bharti, IITDM Jabalpur and MP.
 130. Dr. P. S. Bhatnagar, Scientist-E and Officer-in Charge delivered a lecture on "Taxonomy and Conservation" to the internship students on 18.12.2024.
 131. Dr. S. D. Paunekar, Sci-E Lecture delivered on Moth: Collection, Preservation and Identification to the internship students on 19.12.2024 at ZSI, CZRC, Jabalpur.
 132. Dr. Saipari Sailo, Scientist-D delivered a Dr. P. S. Bhatnagar, Scientist-E and Officer-in Charge delivered a lecture on "Taxonomy and Conservation" to the internship students on 18.12.2024.
 133. Dr. S. D. Paunekar, Sci-E Lecture delivered on Moth: Collection, Preservation and Identification to the internship students on 19.12.2024 at ZSI, CZRC, Jabalpur.
 134. virtual lecture on "Breeding and development of Amphibians with special reference to North East India" at South Asia Meet-UP Save the Frogs on 21.12.2024.
 135. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on carrier prospective in the field of zoology to the internship students on 17.12.2024.
 136. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on Museology the to the students and faculty of PG College Jabalpur on 04.01.2025.
 137. Dr. P. S. Bhatnagar, Sci-E & O/c & Dr. Sandeep Kushwaha, Sci-C delivered a lecture on dry preservation to the FRO of Chhattisgarh Cadre under the Training program at Zoological Survey of India central Zone Regional Centre Jabalpur Madhya Pradesh on 06.01.2025.
 138. Dr. P. S. Bhatnagar, Scientist-E and Officer-in Charge delivered a lecture on "Basic concepts of taxonomy" during the Five-day workshop on 20.01.2025 at Govt. Science college, Jabalpur.
 139. Dr. P. S. Bhatnagar, Scientist-E and Officer-in Charge delivered a lecture on "Basic concepts of taxonomy" during the Two day workshop on 27.01.2025 at Vikram University, Ujjain.
 140. Dr. S. D. Paunekar, Sci-E delivered a lecture on Moth: Collection, Preservation and Identification during the Five-day workshop on 21.01.2025 at Govt. Science college, Jabalpur.
 141. Dr. Saipari Sailo, Scientist-D delivered a lecture on Taxonomy and development of Amphibians during the Five-day workshop on 20.01.2025 at Govt. Science college, Jabalpur.
 142. Mrs. Pallabi Priyadarsini, Asst. Zool. delivered a lecture on Freshwater molluscs of M.P during the Five-day workshop on 21.01.2025 at Govt. Science college, Jabalpur.
 143. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on collection, preservation and identification of animals found in India & taxidermy during the two-day workshop on 27.01.2025 at Vikram University, Ujjain.
 144. Mrs. Pallabi Priyadarsini, Asst. Zool. delivered a lecture on Freshwater molluscs of M.P and demonstrated microscopic study of Mantodea to BSc. 4th year students and MSc. Students from Shahdol university and Sagar University for their internship study.
 145. Dr. P. S. Bhatnagar, Scientist-E and Officer-in Charge delivered a lecture on "Basic concepts of taxonomy" & on group "Orthoptera" to internship students.
 146. Dr. S. D. Paunekar, Sci-E delivered a lecture on Moth: Collection, Preservation and Identification to M.Sc. IV year (Zoology) students of Mata Gujri College, Jabalpur on 06.02.2025 at ZSI, CZRC, Jabalpur.
 147. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on National Workshop on Recycling of Agricultural Waste and Wetlands Conservation and opening ceremony of vermicompost unit at Shri Guru Teg Bahadur Khalsa College Jabalpur on 03.02.2025.
 148. Dr. Sandeep Kushwaha, Sci-C delivered a lecture on Collection, preservation and Identification of Hemipteran insects to the students of Mata Gujari college students & Mahakaushal college students as a part of their internship on 11.02.2025.
 149. Dr. Sandeep Kushwaha, Sci-C delivered a lecture three days Workshop on Collection, preservation and Identification of insects

- Jointly organized by Society of biological sciences and rural development Parayagraj & Central Zone Regional Center, Zoological Survey of India, Jabalpur (M.P.) 16-18 February 2025 at Lucknow.
150. Dr. P.S. Bhatnagar, Sci-E and Officer-in-charge & Dr. Sandeep Kushwaha, Sci-C delivered a lecture on Musicology in Five days Workshop with Vikram University Ujjain under the MOU program 28.02.2025 to 05.03.2025 organised by Vikram University Ujjain (M.P.) & Central Zone Regional Centre, Zoological Survey of India, Jabalpur (M.P.).
151. Dr. Sandeep Kushwaha, Sci-C 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 7th-8th March, 2025.
152. Dr. S. D. Paunekar, Scientist-E delivered Lecture on "Collection, preservation and Identification and diversity of Pisces" to MSc 4th year students from Govt. Home Science College, Jabalpur on 21.03.2025.
153. Dr. Sandeep Kushwaha, Sci-C delivered a lecture in National Science Day celebration at Vijayshree College Jabalpur Madhya Pradesh on 27.02.2025 on Indian scientist and their contribution.
154. Dr. Sandeep Kushwaha, Sci-C delivered a lecture in National Science Day celebration at Vijayshree College Jabalpur Madhya Pradesh on 27.02.2025 on Indian scientist and their contribution.
155. Dr. R. H. Raina, Scientist- E delivered an invited lecture on "Diversity of Himalayan Bumblebees and their role in Pollination ecology" in the International Conference on Monitoring Biodiversity for Action (ICMBA-2024) on 25th June, 2024 organized by the Department of Zoology, University of Kashmir from 25th to 27th June, 2024.
156. Dr. Indu Sharma, Scientist- F delivered lecture on "Fauna of Desert Ecosystem and its importance", Awareness and information on Mission LiFE was detailed by Dr. R. Bano, Scientist-E and lecture on "Importance of Pollinators- a brief scenario" by Dr. R. H. Raina, Scientist-E among the students of Agriculture from R.S.M School, Jodhpur at the Centre on 12th July, 2024.
157. Dr. Indu Sharma, Scientist-E delivered three invited lectures to Refreshment course to viz. 1. Faunal Diversity of Mammals of Rajasthan and their Geographical Distribution, Habit and Habitat 2. Faunal Diversity of Reptiles of Rajasthan and their geographical Distribution. 3. Diversity of Amphibians at State Forest Office, Jodhpur on 10.10.2024
158. Dr. Indu Sharma, Scientist-E delivered two invited lectures 1. Faunal Diversity of Reptiles of Rajasthan and their geographical Distribution, Habit and Habitat. Snakes and Lizards, Turtles and Tortoises 2. RET Animal species of Rajasthan: Tiger, Leopard, GIB, Lesser Florica, Vultures, Wolf, Four Horned Antelope at Police Training Centre, Mandore, Jodhpur, Rajasthan on 11.10.2024
159. Dr. Indu Sharma, Scientist-E and Officer-in-charge delivered the lecture on "Faunal diversity of Desert Ecosystem" among the M.Sc. Students of Bhakta Kavi Narsinh Mehta University, Junagadh, Gujarat at the centre on 26th November, 2024.
160. Dr. R. H. Raina, Scientist-E delivered an invited lecture on "Diversity of Himalayan Bumblebees and their role in conservation of High land Ecosystem" during the session 'Driving Change for Future: Innovate, Inspire, Impact' at the International Mountain Day 2024 event 'Youth for the Himalaya: Innovate, Inspire, Impact' organized by IUCN in collaboration with GB Pant NIHE under the aegis of Ministry of Environment, Forest, and Climate Change (MoEFCC), on 11th December at Ganga Auditorium, Indira Paryavaran Bhawan, MoEFCC, New Delhi.
161. Dr. Indu Sharma, Scientist- F delivered a lecture to M.Sc. students and Research Scholars entitled "ZSI activities and Desert fauna along with threats and conservation measures" delivered by on 14th February 2025 at "Bhakti Kavi Narsinh Mehta University, Junagadh, Gujarat".
162. Dr. Gaurav Sharma, Scientist-F ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal Diversity and their conservation in India" to 02 Faculty, 01 research scholar and 15 M. Sc. Zoology students of Kurukshetra University, Haryana in the conference hall of ZSI, NRC, Dehradun on 01 April, 2024.
163. Dr. Gaurav Sharma, Scientist-F ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Mammals, threat and their conservation in India" to 05 Faculty and 26

- M. Sc. Zoology Students Of Department Of Zoology, D.N. (P.G.) College, Meerut, Uttar Pradesh in the conference hall of ZSI, NRC, Dehradun on 04 April, 2024.
164. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal Diversity and their conservation in India" to 04 Faculty and 34 B. Sc. Zoology students of "Samrat Prithviraj Chouhan P.G. College, Rohalaki-Kisanpur, Haridwar, Uttarakhand in the conference hall of ZSI, NRC, Dehradun on 08 April, 2024.
 165. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Mammals, threat and their conservation in India" to 100 School Students & 10 Faculty of "Lions Bal Vidya Mandir Sr. Sec. School, Pilibhit, Uttar Pradesh" at ZSI, NRC, Dehradun on 16 May, 2024.
 166. Dr. Gaurav Sharma, Scientist-F ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal Diversity and their conservation in India" to 04 Faculty and 48 students of four schools of Dehradun on the occasion of celebration of "International Day for Biological Diversity" programme organized in collaboration with USERC, Government of Uttarakhand at ZSI, NRC, Dehradun on 22 May, 2024.
 167. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal Diversity in India" to M. Sc. Zoology students of Kurukshetra University, Haryana in the conference hall of ZSI, NRC, Dehradun on 28 May, 2024.
 168. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Importance of Wetlands and Wetlands Birds of India" to M.Sc. Zoology students of Kurukshetra University, Haryana" in the conference hall of ZSI, NRC, Dehradun on 04th June, 2024.
 169. Dr. Gaurav Sharma, Scientist-F ZSI, NRC, Dehradun delivered lecture on topic entitled "Importance and conservation of Environment, habitats and Faunal diversity" to about 120 students/faculty/common public held at the Gandhi Park, Dehradun on World Environment Day 05th June, 2024.
 170. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal diversity and Protected Animals of India" to '42 Trainees of Uttarakhand Forestry Training Academy, Haldwani, Uttarakhand, India' in the conference hall of ZSI, NRC, Dehradun on 11th June, 2024.
 171. Dr. Gaurav Sharma, Scientist-F ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal diversity and Protected Animals of India" to 04 Faculty and 38 M.Sc. Zoology students of Aligarh Muslim University, Aligarh, U.P. and Dev Bhoomi University, Dehradun held at the Conference Hall of ZSI, NRC, Dehradun on 21 June, 2024.
 172. Dr. Gaurav Sharma, Scientist-F ZSI, NRC, Dehradun delivered an invited lecture on topic entitled "Status of Faunal diversity and their conservation in India" as panelist in the Biodiversity Conservation Session in the "National Conference on Living with Nature: Soil, Water and Society in Ecosystem Conservation" organized by Indian Institute of Soil and Water Conservation (ICAR), Dehradun held at Himalayan Cultural Center, Dehradun, Uttarakhand on 23 June, 2024.
 173. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal Diversity and their conservation in India" to M. Sc. Environment Management Course Students (2024-26 Batch) of Forest Research Institute (Deemed to be University), Dehradun, Uttarakhand held in the conference hall of ZSI, NRC, Dehradun on 07 August, 2024
 174. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture under The "Gol-NIRANTAR initiative" on topic entitled "Status of Faunal Diversity, their conservation and data collection in India" in the "Training Programme for Zonal Officers of FSI" organized and held at the conference hall of Forest Survey of India, HQs., Dehradun on 08 August, 2024.
 175. Dr. Gaurav Sharma, Scientist-F delivered lecture on topic entitled ""Status of Faunal diversity and Protected Animals of India" to M.Sc. Zoology students (2024-26 batch) and Faculty of Uttaranchal University, Dehradun on 20 August, 2024.
 176. Manoj Kumar Meena, Scientist-B delivered a lecture on "Studies on the Faunal diversity and their conservation in India" on 20.08.2024 to the 42 students from Uttaranchal University Dehradun, (Uttarakhand).
 177. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal

- Diversity and their conservation in India" to 28 Trainees Forest Officials (2024-26 batch) of Central Academy for State Forest Service (CASFOS), MoEFCC, Dehradun at ZSI, NRC, Dehradun, Uttarakhand on 05th September, 2024.
178. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun given his inputs to the Hon'ble Chief Minister of Uttarakhand Shri Puskar Singh Dhammi ji on "Status and challenges for conservation of Faunal Diversity in the Indian Himalaya" in the concluding session of Himalayan Conservation Week programme and celebrated Himalayan Day organized by UCOST at Mukhya Sewa Sadan Hall Camp Office Chief Minister Residence on 09th September, 2024.
179. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status and conservation of Wildlife in India" to 82 students and 08 staff of Government Primary and Secondary School, Kotda Santour, District-Dehradun, Uttarakhand on 07th October, 2024.
180. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun delivered lecture on topic entitled "Status of Faunal Diversity and their Conservation in India" to Zoology Students and Faculty of DAV College Muzaffarnagar, Uttar Pradesh held in the Conference hall of ZSI, NRC, Dehradun on 27 November, 2024.
181. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on topic entitled "Status of Faunal Diversity, efforts on Wildlife Conservation and Management in India" to the "Senior IFS Officers Training Programme on Human-Wildlife Interface Management" organized by FE&CCD, Forest Research Institute, Dehradun in the "Board Room of Forest Research Institute, Dehradun" on 16 December, 2024.
182. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on topic entitled "Faunal Diversity and efforts on their Conservation in India" to 28 Trainees of Haryana Forestry Training Institute, Gurugram on 18 December, 2024.
183. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on topic entitled "Status of Faunal Diversity and efforts on their Conservation in India" to "Indian Forest Service 114 Probationers Batch of 2024-26 of IGNSA, Dehradun" in the conference hall of ZSI, NRC, Dehradun on 18 December, 2024.
184. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on "Status of Faunal Diversity of India" to 503 School Children's and 20 Teachers of PM SHRI Kendriya Vidyalaya ITBP, Dehradun on 21 December, 2024.
185. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on topic entitled "Status of Faunal Diversity, efforts on Wildlife Conservation and Management in India" to the 34 students of Department of Zoology, Mumbai College, Maharashtra in the Conference Room of ZSI, NRC, Dehradun on 10 January, 2025.
186. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on topic entitled "Faunal Diversity and efforts on their Conservation in India" to 42 students of Uttaranchal University, Dolphin Institute and Alpine Group Of Institutions, Dehradun" in the Conference Room of ZSI, NRC, Dehradun on 10 January, 2025.
187. Dr. Gaurav Sharma delivered Invited Guest Lecture in the "International Seminar on Current Environmental Issues for Sustainable Circular Economic Strategies....." organized by Gurukul Kangri University and IAES, Haridwar on 28 January, 2025.
188. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered lecture on topic entitled Protection of Wetlands to the participants on the celebration of World Wetland Day 2025 at Asan Conservation Reserve -Ramsar Site, Uttarakhand, India on 02 February, 2025 and also interacted with the students of Oasis School, Dehradun.
189. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge delivered invited lecture on topic entitled "Protecting Wetlands for Our Common Future" to Graduate and Post-Graduate students of Dolphin (PG) Institute of Biomedical & Natural Sciences, Dehradun in the conference hall of the institute on 04 February, 2025.
190. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, 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 06 March, 2025.

191. Dr. Gaurav Sharma, Scientist-F and Officer-in-Charge, ZSI, NRC, Dehradun 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 March, 2025.
192. Dr. Narender Sharma, Scientist-F delivered lecture on "Collection, Preservation and Identification of Insects" was delivered to 42 students of Uttaranchal University, Dolphin Institute and Alpine Group of Institutions, Dehradun" in the Conference Room of ZSI, NRC, Dehradun on 10 January, 2025.
193. Dr. K. A. Subramanian, Sci-F delivered two lectures to the participants of the internship programme for M.Sc. Zoology students from Ethiraj College, Queen Marys College, Guru Nanak College, Stella Marys College and University of Madras, Chennai.
194. Dr. K. A. Subramanian, Sci-F delivered an invited lecture at international conference organized by University of Madras on "Climate Change and Insect Decline" on 23rd January 2025.
195. Dr. K. A. Subramanian, Sci-F delivered a lecture on biodiversity conservation to the students of PM SHRI Kendriya Vidyalaya, Minambakkam as part of environmental awareness programme. February, 2025
196. Dr. K. A. Subramanian, Sci-F delivered a lecture on Insect Diversity: Dept. of Zoology, Vivekananda College, Chennai. 03rd March, 2025
197. Dr. K. A. Subramanian, Sci-F delivered a lecture on aquatic insect diversity and conservation. Western Ghats Biodiversity and Conservation Symposium, Kongunadu Arts and Science College, Coimbatore. 06th March, 2025.
198. Dr. Jayasree Thilak, Sci-F delivered one lecture and practical demonstration on the collection, preservation and identification of Plankton to the students of different PG. Colleges under Madras University during their Internship training programme on 21-05-2024.
199. Dr. Jayasree Thilak, Sci-F delivered lecture on Freshwater Fishes was delivered on 29-05-2024 to the Internship trainees.
200. Dr. Jayasree Thilak, Sci-F delivered lecture one lecture on the 'Collection, preservation, identification and importance of Zooplankton' to the 30 Forest Officials who were undergoing three weeks' short term course at Tamil Nadu Forest Academy, Coimbatore on implementation of Forest and Wildlife related Laws and Criminal Laws during their visit to SRC/ ZSI/ Chennai on 11-12-2024.
201. Dr. R. Babu, Sci-E delivered six lectures to the participants of the internship programme for M.Sc. Zoology students from Ethiraj College, Queen Marys College, Guru Nanak College, Stella Marys College and University of Madras, Chennai.
202. Dr. Ranjana, Sci-E delivered two lectures on DNA Barcoding for summer internship students from First year M.Sc. Students Ethiraj College, University of Madras, Guru Nanak College, Loyola College, Stella Maris College and Queens Marys College Chennai from 22/05/2024 and 24/05/2024.
203. Dr. Ranjana, Sci-E delivered one lecture to Maharajas College Ernakulam, Kerala on Role of DNA barcoding in Biodiversity Documentation on 26/02/2025.
204. Dr. Ranjana, Sci-E delivered one lecture on 3th February, 2025 on techniques on DNA isolation and barcoding of animal fauna to students from Kamla Nehru Institute of Physical and social science, Sultanpur U.P.
205. Dr. Ranjana, Sci-E delivered one lecture on 10th December, 2024 to 30 trainee officers Forest Academy of Tamil Nadu.
206. Dr. Ranjana, Sci-E delivered one lecture to Maharajas College Ernakulam, Kerala on Role of DNA barcoding in Biodiversity Documentation.
207. Dr. Gokul, Sci-C, delivered a brief lecture on the Taxonomy and Significance of Brachyuran Crabs to the students of Ramajee Degree Mahavidyalaya, Odisha on 12.04.2024
208. Dr. Gokul, Sci-C, delivered a brief lecture on ZSI and its role in Taxonomy wsr to Brachyuran Crabs to the summer camp students of Army Camp Gopalpur on 22.05.2024
209. Dr. Gokul, Sci-C, delivered a lecture to Tamil Nadu forest officials on the taxonomy and ecology of Brachyuran crabs on 12.12.2024
210. Dr. Anil Kumar, Scientist-E delivered an informative talk "A journey to the Antarctica" with regard to International Earth Day 2024, on 22-04-2024.
211. Dr. M. E. Hassan, Scientist-E delivered

- an orientation lecture on "Microplastic and Living Organism" with regard to the International Earth Day, 2024.
212. Dr. M. E. Hassan, Scientist-E delivered lecture on "Methods in Faunal Collection, Preservation and identification: Freshwater Fishes" on 4th April, 2024 to Post Graduate students of B.S.College, Patliputra University.
 213. Dr V M Sathish Kumar, Scientist C delivered an informative talk on 'Cybertaxonomy, Biocorder and Biodiversity documentation in India' with regard to Post Graduate internship training, at ZSI, GPRC, Patna on 02-04-2024.
 214. Dr V M Sathish Kumar, Scientist C delivered an informative talk on 'Everyday Earth Day-Give Earth a Chance' with regard to World Earth Day 2024, at ZSI, GPRC, Patna on 22-04-2024. Shri Manish Chandra Patel, Assistant Zoologist delivered a lecture with regard to an in-house seminar on International Water Day on 22.03.2024.
 215. The Centre organized, (Dr. M. E. Hassan, Scientist-E as the co-coordinator) an invited talk on "Harnessing natural predators for sustainable pest management in developing Nations: Ecological, Economic and social impact" by Dr.Md.Shahid, Assistant Professor, Department of Zoology, Oriental College, Patna City Patna on 5th June, 2024.
 216. Another invited talk was given on "How to train the brain for biodiversity and ecosystem conservation" by Dr. Mehdi Hayat Shahi, Assistant Professor, Interdisciplinary Brain Research Centre (IBRC), J. N. Medical College, Faculty of Medicine, Aligarh Muslim University, Aligarh-202002, at Gangetic Plains Regional Centre, Zoological Survey of India campus Patna on 7th June 2024.
 217. Dr. Anil Kumar, Scientist-E & Officer-in-Charge delivered a lecture on "Avifauna of Wetlands of Gangetic Plains of Bihar" to the B.Sc. Zoology students of Rameshwar Das Pannalal Women's College, Patna City-800009 at GPRC, Patna on 13th August, 2024
 218. Dr. M. E. Hassan, Scientist-E delivered a lecture on 'Dealing with insects: A taxonomic approach' to the B.Sc. Zoology students of Rameshwar Das Pannalal Women's College, Patna City-800009 at GPRC, Patna and delivered a lecture on 13th August, 2024.
 219. Dr.M.E.Hassan, Scientist-E delivered a lecture on "Wildlife Conservation: A plane mirror image view" on Wildlife Week celebration on 8th October, 2024.
 220. Dr. Anil Kumar, Scientist-E delivered a lecture on the wetlands of Ganga basin aimed to the 50 students and three teachers of Shemford Futuristic School, Patna, on their educational tour to ZSI, Patna on 25-11-2024.
 221. Dr. Anil Kumar, Scientist-E delivered invited talk on Avian Acoustics and it's significant for conservation at National College, Trichy on 24.12.2024.
 222. Dr. Anil Kumar, Scientist-E delivered a guest lecture on 'Avian Acoustics' in UGC sponsored online refresher course scheduled from 5th to 18th Dec. 2024, aimed at university/ college teachers, organised by Dr. H.S.Gour University, Sagar, MP on 10.12.2024.
 223. Dr. V.M. Sathish Kumar, Scientist-C delivered an invited lecture titled 'Digital Frontiers in Biodiversity Documentation: AI, Cybertaxonomy and Biocorders in the Context of Indian Faunal Diversity,' organized by the UGC-MMTTC, Sagar, MP, for approximately 60 newly recruited Assistant Professors from various Colleges and Universities on 6th Dec 2024.
 224. Dr.V.M. Sathish Kumar, Scientist-C delivered an invited lecture titled "Anti plagiarism practices for authentic scientific research and reporting" organized by the UGC-MMTTC, Sagar, MP, for approximately 60 newly recruited Assistant Professors from various Colleges and Universities on 7th Dec 2024.
 225. Dr Anil Kumar, Scientist-E, delivered an invited lecture on the 'Wetlands and wildlife of trans-Himalaya', to the participants of the short-term course on 'Biodiversity and its Conservation' 14 to 20 Feb 2025, being organised by Dr. H.S. Gour University, Sagar, (MP) On 17-02-2025.
 226. Dr V M Sathish Kumar, Scientist-C delivered an invited lecture titled 'Digital Frontiers in Biodiversity Documentation: AI Cybertaxonomy and Biocorders in the Context of Indian Faunal Diversity' organized by the UGC-MMTTC, Sagar, MP, on 14.02.2024.
 227. Dr V M Sathish Kumar, Scientist-C delivered an invited lecture titled Anti-Plagiarism for Science Research and Reporting' organized by the UGC-MMTTC, Sagar, MP, on 20.02.2024.
 228. Dr Anil Kumar, Scientist-E, delivered a guest lecture titled 'Impact of Climate Change on Birds' on 25-03-2025 in the workshop on SDG-13 and Youth: Climate action for a sustainable future, from 25-26 March 2025, at Science Centre, Patna, organised by Vishwa

- Yuvak Kendra, New Delhi, in collaboration with Prem Youth Foundation, Patna.
229. Dr. M. E. Hassan, Scientist-E delivered an invited lecture on "Effect of Climate Change on Insects" organised by Vishawwa Yuvak Kendra, New Delhi in collaborating with Prem Youth Foundation from 24-24 March, 2025 at Shrikrishna Vigyan Kendra, Patna.
 230. Dr. Avtar Kaur Sidhu, Scientist-F and officer-in-charge gave lecture to 408 school students from 1st to 12th standard of Government Senior Secondary, Sogra on Mission Life on 05.06.2024
 231. Dr. Avtar Kaur Sidhu, Scientist-F gave lecture to 150 summer camp students of 14 Gorkha battalion on Fauna of Himalaya and role of Zoological Survey of India for its conservation on 13.06.2024.
 232. Dr. Boni Amin Laskar, Scientist-E gave online talk on "Freshwater Fish: Collection, Preservation and Identification" organized by WRC, Pune, on 12.08.2024
 233. Dr. Avtar Kaur Sidhu, Scientist-F attended Research Advisory Group meeting of Himalayan Forest Research Institute, Shimla on 17.09.2024 for evaluation of projects of HFRI.
 234. Dr. Avtar Kaur Sidhu, Scientist-F attended Senior Officers Half Yearly meeting from 23 to 25.10.2025 at Kolkata and gave presentation of the progress of HARC, Solan. Also attended scientific, administrative and financial committee meetings for the issues related to ZSI, Solan.
 235. Dr. Avtar Kaur Sidhu, Scientist-F gave ppt on the topic 'An Introduction to Zoological Survey of India, its activities and objectives' in one-day training programme on Insect pest collection, handling, preservation and biological control for technical personal of ICFRE organised by HFRI, Shimla, held at High Altitude Regional Centre, ZSI, Solan, on 21.11.2024.
 236. Dr. Avtar Kaur Sidhu, Scientist-F gave a lecture on women empowerment: need of the day to 50 women post graduate students of Dev Samaj College, Ferozpur (Punjab) on 13.03.2025 at ZSI, Solan
 237. Dr. Avtar Kaur Sidhu, Scientist-F acted as resource person and delivered an invited talk on topic, "Conserving Butterflies in Urban Landscape" on 20.03.2025 in National Seminar on Environment and Biodiversity: Issues & Challenges organised by Department of Biosciences Himachal Pradesh University, Shimla from March 20-21, 2025.
 238. Dr. P. C. Pathania, Scientist-E delivered an invited talk on "Biological Diversity: Issues and Strategies for Conservation" at the 11th Him Science Congress on Materials and Biological Sciences, in collaboration with Zoological Survey of India, at Government College, Bilaspur, HP, on November 17, 2024.
 239. Dr. P. C. Pathania, Scientist-E delivered an invited talk on "Insect Pests and Their Biological Control during a one-week training program (November 18-22, 2024) titled "Insect Pest Collection, Handling, Preservation, and Biological Control" for technical personnel of ICFRE, organized by HFRI, Panthaghati, Shimla, HP, at High Altitude Regional Centre, ZSI, Solan, on November 21, 2024.
 240. Dr. P. C. Pathania, Scientist-E delivered an invited talk on "Insect Diversity and Their Economic Importance" for PG students and teachers of Dev Samaj College for Women, Ferozpur City, Punjab, organized at HARC, ZSI, Solan, on March 12, 2025.
 241. Dr. P. C. Pathania, Scientist-E delivered an invited talk on "Environmental Issues and Challenges Threatening Lepidoptera Diversity" at the National Seminar on "Environment and Biodiversity: Issues & Challenges", organized by the Department of Biosciences, Himachal Pradesh University, Shimla, HP, on March 21, 2025.
 242. Dr. P. C. Pathania, Scientist-E and delivered an invited talk on "Role of Bio-Pesticides in the Management of Insect-Pests in the North-Western Himalayas" during a three-day training program titled "Application of Bio-Fertilizers & Bio-Pesticides in Forestry Practices," organized by ICFRE-Himalayan Forest Research Institute, Shimla, HP, on September 27, 2024.
 243. Dr. Sivaleela, Sci-E was asked to be a speaker in a National Conference on Recent Trends and Challenges in Marine Life Conservation on 29th of August 2024 at Kamaraj College, Tuticorin.
 244. Dr. P. Prabhakaran, Sci-E Delivered a lecture on "Biodiversity and conservation in India" at Guru Nanak College Velachery Chennai during 24-06-2024 for PG students.
 245. Dr. P. Padmanaban, Sci-B Assisted and interacted on the topic Schedule Marine Species and Marine Exhibts a batch of 25 Forest Range Officers from various States

- visited Marine Museum & Aquarium on 13.11.2024
246. Dr. S. Prabakaran, Sci-E had Lectures delivered in "Employability opportunities for Life science students in Government sectors" for Quaid-E- Millath Government College for Women (Autonomous), Chennai.
 247. Dr. P. Padmanaban, Sci-B delivered talk on Introduction to Marine Reptiles Taxonomy, diversity and distribution to the Summer Internship Course conducted by Marine Biology Regional Centre, ZSI, Chennai from 03-07 June, 2024.
 248. Dr. P. Padmanaban, Sci-B delivered talk on "Collection, Preservation and Identification of Reptiles" interacted a batch of 40 students M.Sc. Zoology Kongunadu College of Arts and Science, Coimbatore visited Marine Museum & Aquarium on 08.10.2024.
 249. Dr. P. Padmanaban, Sci-B explained Marine Faunal Diversity, importance and conservation to 95 students (M.Sc-Biotechnology integrated course) from Velloer Institute of Technology , (VIT) visited Marine Museum and Aquarium on 21.10..2024.
 250. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on Island Ecosystem Structure and Function in the one-day seminar on the theme of World Environment Day 2024 ("Our Land, Our Future. We are #GenerationRestoration) held on 31st May 2024.
 251. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered at talk on an Overview of Biodiversity of Andaman and Nicobar Islands" to the students of SSM College of Arts & Science, Dindukkal, Tamil Nadu on 13th July 2024.
 252. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on Proplanet strategies for quality life: Mitigating Climate Change and preserving Biodiversity as a part of Quality Improvement Programme in the Manakula Vinayagar Medical College and Hospital; & Manakula Vinayagar Institute of Technology, Puducherry on 9th August 2024.
 253. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on the Effect of climate change on Biodiversity of Antarctica on the one-day seminar as a part of celebration of World Ozone Day 2024
 254. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on Biodiversity of Island ecosystem on the one-day seminar on Biodiversity and sustainable development of Tourism.
 255. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered four lectures on "An overview of Ice Continent of Antarctica"; "An overview of Biodiversity of Andaman and Nicobar Islands"; "Carrier Guidance for the 10th and 12th Students on the higher education in India"; "Motivational Talk" on 16th October 2024 at Jawahar Novdaya Vidyalaya, Rangat, Middle Andaman.
 256. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered two lectures on "An overview of Biodiversity of Andaman and Nicobar Islands"; "Motivational Talk" on 18th October 2024 at Mahatma Gandhi Government College, Mayabunder, Middle Andaman.
 257. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered two lectures on "An overview of Biodiversity of Andaman and Nicobar Islands"; and "Peoples Biodiversity Register" on 18th October 2024 for the officials of Department of Environment and PRI Members of the North & Middle Andaman Districts.
 258. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on the Overview of Biodiversity of A & N Island with special reference to endemic and endangered fauna in the one-week compulsory training course on Coastal and Marine Biodiversity of Island Ecosystem for the Indian Forest Service (IFS) Officers held during 11th – 15th November 2024 organised by ZSI, Port Blair.
 259. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on the Overview of Marine Biodiversity of A & N Island in the three-day training workshop on Coastal and Marine Biodiversity of Island Ecosystem for the other stakeholders held during 21st – 23rd November 2024 organised by ZSI, Port Blair.
 260. Dr. C. Sivaperuman, Scientist-E & Officer-in-Charge delivered a talk on the Overview of Marine Biodiversity of A & N Island in the three-day training workshop on Coastal and Marine Biodiversity of Island Ecosystem for the other services held during 19th to 21st December 2024 organised by ZSI, Port Blair.
 261. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge delivered a talk on an overview of Biodiversity of Andaman & Nicobar Islands & Biodiversity of Antarctica to the students of Jawahar Navadaya Vidyalaya, Car Nicobar on

- 25th January 2025.
262. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge delivered a talk on "Terrestrial Faunal Diversity of A & N Islands"; "Avifauna of Andaman and Nicobar Islands"; and "Ecosystem services of birds" in the two-day Science Academic Lecture Workshop on Recent advances of biodiversity of Andaman and Nicobar Islands held during 27th - 28th February 2025.
 263. Dr. C. Sivaperuman, Scientist-F & Officer-in-Charge 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 21st March 2025.
 264. Dr. J. S. Yogesh Kumar Scientist E delivered a lecture entitled "Taxonomy of Ocotocorals" in Hands-On Training on Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring at ZSI, Kolkata on 18.04.2024.
 265. Dr. J. S. Yogesh Kumar Scientist E delivered a lecture entitled "Sunderban Mangrove conservation, land Restoration, Desertification and Drought Resilience" in One day seminar organized by ZSI-SbRC, Canning on 05.06.2024 to 65 students, two teachers and staff.
 266. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Ek Ped Maa Ke Naam" to the school students on 13.08.2024 in G.N. Harinarayani Vidyapith Hr. Sec. School.
 267. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Ek Ped Maa Ke Naam" to the school students on 28.08.2024 in Jr. High School, Taldaha Shikari Para, Khari Machan, Amjhara, Canning.
 268. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Ek Ped Maa Ke Naam" to the school students (500 students and 10 teachers) on 12.09.2024 in Amtala Matiram High School, Canning and sapling distributed to the school students.
 269. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Rajbhasha Hindi" to the school students (55 students and 2 teachers) on 13.09.2024 in ZSI-SbRC, Canning and sapling distributed to the school students.
 270. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Swachchhata Hi Seva" to the school students (30 students and 2 teachers) on 17.09.2024 in Garkhali Deshkalyan Abaitanik Prathamik Vidyalaya School, Canning and sapling distributed to the school students.
 271. Dr. J. S. Yogesh Kumar Scientist E and Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Ek Ped Maa Ke Naam" to the school students (500 students and 10 teachers) on 02.10.2024 in DABU, Canning and 200 saplings distributed to the school students.
 272. Dr. J. S. Yogesh Kumar Scientist E delivered a lecture in Christmas celebration at De Paul School, Canning on 20.12.2024
 273. Dr. J. S. Yogesh Kumar Scientist E delivered a lecture entitled "Marine biodiversity" in One day seminar organized by ZSI-SbRC, Canning on 15.01.2025 to the UG final year students from Gurucharan College, Silchar, Assam University.
 274. Dr. Prabhakar Rai Scientist C delivered a lecture entitled "Ganga Gap and Lockdown" in One day seminar organized by ZSI-SbRC, Canning on 15.01.2025 to the UG final year students from Gurucharan College, Silchar, Assam University.
 275. Dr. J. S. Yogesh Kumar Scientist E delivered a lecture entitled "Coral reef ecosystem and its importance in the Indian economy" in One day seminar organized by Research and Environmental Education Foundation (REEF), Lakshadweep on 01.03.2025 to the school students in Government Sardar Patel Senior Secondary School, Kalpeni Island, Lakshadweep.
 276. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge delivered a lecture on "Role of Wetlands and its ecological importance" on wetland day 2nd February 2025 organized by FBRC/ZSI Hyderabad.
 277. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge delivered a lecture on "Importance of Faunal diversity and its conservation" to the Sarojini Naidu Vanita Mahavidyalaya PG College, Hyderabad on 17.03.2025 "How to combat Plastic Pollution" on the occasion of World Environmental Day on 5th June 2024 organized by FBRC/ZSI Hyderabad.
 278. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge delivered a lecture on Ozone and climate change on Ozone Day 16th September 2024 organized by FBRC/ZSI Hyderabad.
 279. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge delivered a lecture on "taxonomy

- and diversity aquatic and semi-aquatic Hemiptera in India" to Department of Zoology, Telangana University on One Day National Seminar on "Molecular Approaches to the Taxonomy and Systematics of Aquatic Fauna", Sponsored by DST, Gol and TGCOST On 26th September 2024.
280. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge delivered a lecture on "Aquatic Insects of Eastern Ghats" on 03 October 2024 at CCMB-LaCONES.
 281. Dr. Deepa Jaiswal Scientist-E & Officer-in-Charge organised and delivered lecture on Biodiversity Profile of India in EIACP Pilot Capacity Building Program for Biodiversity Management Committees (BMCs)" from 18-20 February 2025 at Acharya Nagarjuna University, Guntur, Andhra Pradesh.
 282. Dr. M. Karuthapandi, Scientist D delivered lecture on "Role of Wetland" on wetland day 2nd February 2024 organized by FBRC/ZSI Hyderabad.
 283. Dr. M. Karuthapandi, Scientist D delivered lecture on "Beat Plastic Pollution" on the occasion of World Environmental Day on 5th June 2023 organized by FBRC/ZSI Hyderabad.
 284. Dr. M. Karuthapandi, Scientist D delivered lecture on Ozone and climate change" on Ozone Day 16th September 2024 organized by FBRC/ZSI Hyderabad.
 285. Dr. M. Karuthapandi, Scientist D delivered a lecture on "Importance of Faunal diversity and its conservation" to the Sarojini Naidu Vanita Mahavidyalaya PG College, Hyderabad on 23.02.2024.
 286. Dr. S. S. Jadhav, Scientist-E delivered a lecture on 'Collection, Preservation of Zoological specimens' to M. Sc. Students from Dept. of Zoology, Yashwant College, Nanded, Maharashtra.
 287. Dr. S. S. Jadhav, Scientist-E delivered a lecture on 'Collection, Preservation and Identification of fishes' to the PG students of Govt. Degree College, Badangpeton 28th January, 2025 at FBRC, Hyderabad.
 288. Dr. S. S. Jadhav, Scientist E delivered lecture on "Threatened fishes of Telangana and its conservation" to the Sarojini Naidu Vanita Mahavidyalaya PG College, Hyderabad on 23rd February 2025 at FBRC, Hyderabad.
 289. Dr. Muhamed Jafer Palot, Scientist-C, delivered a lecture on 'Citizen Science Programme and Biodiversity Conservation' for the students & teachers of Kannur and Kasaragod district on 10th November 2024 at Mahatma Mandiram, Kannur organised by the SEED Programme of Mathrubhumi and State Education Department, Government of Kerala
 290. Dr. Muhamed Jafer Palot, Scientist-C, delivered a lecture on 'Wetlands and wetland birds of North Kerala' at the 'Birdrace Programme' in commemoration of the Birth Anniversary of Dr. Salim Ali on 17th November 2024 at Hotel Span, Kozhikode organised by the Bird Count India Network, Malabar Natural History Society and the HSBC Bank.
 291. Dr. V.D. Hegde, Scientist-F & Officer in charge delivered a lecture B.Sc. students of SDM College, Honavar, Karnataka on 07.12.2024.
 292. Dr. V.D. Hegde, Scientist-F & Officer in charge delivered a lecture M. Sc. students of Mangaluru University campus, Mangaluru on 17.12.2024
 293. Dr. Muhamed Jafer Palot, Scientist-C, inaugurated the One Day Refresher course for Zoology Teachers (ZOOFIESTA) and delivered a key note lecture on "the Indian Wildlife (Protection) Act and the Faunal Wealth of Kerala" on 14th December 2024 at Government Arts & Science College, Meenchanda, Kozhikode organized by Zoology Teachers Association of Kozhikode.
 294. Dr. Muhamed Jafer Palot, Scientist-C, delivered a lecture on "Diversity of Butterflies and Birds" at the one-week long Lecture Workshop and Faunal Diversity Survey of Mangalagangothri campus of Mangalore University from 17th to 22nd December 2024 organised jointly by the Department of Applied Zoology, Mangalore University and the Zoological Survey of India, Western Ghat Regional Centre, Kozhikode, Kerala
 295. Dr. V.D. Hegde, Scientist-F & Officer in charge delivered a talk as the Chief Guest in Annual Social Gathering of Kanara E-vision Science and Commerce College, Chalagere, Haveri, Karnataka on 10.01.2025.
 296. Dr. Muhamed Jafer Palot, Scientist-C, delivered a lecture on '25 years of butterfly study of Aralam WLS- An overview" at the inaugural meeting of 25 th year of butterfly survey of Aralam WLS on 10 th January 2025 organized by the Kerala Forests & Wildlife Department in association with Malabar Natural History Society.
 297. Dr. Muhamed Jafer Palot, Scientist-C, delivered a talk on "Indian Wildlife Protection Act and the Faunal wealth of Kerala" at

- the National Seminar on "Invasives and Habitat Loss: A Threat to the Biodiversity of Kerala" on 17 th January 2025 organised by the National Institute of Plant Science Technology, Mahatma Gandhi University, Kottayam, Kerala in association with Kerala State Biodiversity Board.
298. Dr. Muhamed Jafer Palot, Scientist-C, delivered an invited talk on "Environmental significance of Madayipara hill-a midland laterite hillocks of northern Kerala" at the State Level Seminar on Conserving Migratory Birds and Biodiversity in Madayipara: Strategies and Challenges at Madayi Cooperative Arts & Science College, Kannur, Kerala on 8th February 2025.
 299. Dr. Muhamed Jafer Palot, Scientist-C, delivered a talk on 'Faunal diversity of Kerala' at the Annual Get together meeting of Higher Secondary Zoology Teachers Association (Bio Synergy- 2025) on 22nd February 2025 at Binale International Hotel, Kannur.
 300. Dr. Muhamed Jafer Palot, Scientist-C, delivered a talk on 'Faunal diversity of the Western Ghats' at the short course on biodiversity organised by Agrobiodiversity Centre, Prof. M.S. Swaminathan Research Foundation, Kalpetta, Wayanad district on 16th February 2024.
 301. Dr. V.D. Hegde, Scientist-F and Officer-in-Charge, delivered a lecture in National Symposium at Kongunadu Arts and Science College Coimbatore, Tamil Nadu on 06.03.2025.
 302. Dr. V.D. Hegde, Scientist-F and Officer-in-Charge, delivered a lecture in National Workshop at Mangalore University, Mangalagangothri, Mangalore, Karnataka on 21.03.2025.
 303. Dr. P. Girish Kumar, Scientist-D, 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 7th March 2025 at Kongunadu Arts and Science College, Coimbatore.
 304. Dr. D. S. Suman, Scientist-E, delivered a special lecture on "Mosquito: identification, surveillance and management with emphasis to dengue vectors" on 20 August 2024 on World Mosquito Day, in a National Webinar organized by the EIACP Centre, ZSI.
 305. Dr. D. S. Suman, Scientist-E, delivered a special talk on Mosquito borne disease and management at DAV School Berhampur on 31.08.2024.
 306. Dr. Anil Mohapatra, Scientist-E, EBRC, ZSI, delivered a lecture on "Understanding Marine Ecology & Biodiversity: Impact of Climate Change on Marine Ecology and Biodiversity" – in the District level Capacity Building of Climate Champion on Climate change & Livelihoods Organised by ECRI Project, Ganjam-Cum Divisional Forest Officer, Brahmapur Forest Division, Brahmapur, Ganjam on 25.09.2024.
 307. Dr. Anil Mohapatra, Scientist-E had presented a talk on "Olive Ridley sea turtle: Conservation and management during the current nesting Period" – in the Division level training – Cum–Awareness programme for front line staff on protection & conservation of Olive Ridley sea turtle during the year 2024–25 at Chilika Wildlife Range Office, Nuapada on 20.12.2024.
 308. Dr. Anil Mohapatra, Scientist-E had delivered a lecture on "Marine Biodiversity and Conservation: Indian Prospective" - in Role model interaction under VigyanJyoti (VJ) Programme by DST on 21.12.2024 at Jabahar Nabodaya Vidyalaya, Nayagarh, Odisha.
 309. Dr. D.S. Suman, Scientist-E, had delivered a lecture on special invited lecture on "Proactive surveillance of mosquito vectors for the early detection of infectious pathogens: Prevention is better than cure" at the National Seminar on Emerging Infectious Diseases and Human Health at Vivekananda College of Arts and Science for Women (Autonomous), Thiruchengodu, Tamil Nadu on 7 & 8th January, 2025.
 310. Dr. D.S. Suman, Scientist-E, had delivered invited talk on "Mosquito sounds: a novel way for identification and surveillance of mosquitoes" at National Conference on Frontiers in Biological Sciences: Research & Innovations" on 21 January 2025 at P. G. Department of Zoology, Berhampur University, Berhampur, Ganjam, Odisha
 311. Dr. Anil Mohapatra, Scientist-E had delivered a talk on "Describing new species (With special reference to marine fish): Discovery and Challenges" in the Teacher Training Program organized by CHSE at Centurion University of Technology and Management, Bhubaneswar on 30.01.2025.
 312. Dr. Anil Mohapatra, Scientist-E had delivered a talk on "Faunal Diversity of Ramsar Wetland: Conservation and Challenges" in the collaborative seminar on Wetlands

- conservation: Challenges and strategies on 31.01.2025, organised jointly by National museum of Natural History and Zoological Survey of India at Regional museum of Natural History, Bhubaneswar.
313. Dr. D.S. Suman, Scientist-E, had presented a talk on "Mosquito sounds: a novel approach for mosquito surveillance" at the National XV Annual Conference of the Indian Society of Malaria & Other Communicable Diseases "Climate Change and Growing Threat of Vector-Borne Diseases" from 31st Jan to 2nd Feb 2025 organized by ICMR-NIMR, Municipal Corporation of Delhi and ISMOCD. (Invited Plenary Lecture).
 314. Dr. Anil Mohapatra, Scientist-E delivered an invited lecture 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 6th March, 2025.
 315. Dr. Anil Mohapatra, Scientist-E delivered an invited lecture 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 11.03.2025.
 316. Dr. Anil Mohapatra, Scientist-E delivered an invited lecture 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 13.03.2025.
 317. Dr. SD Gurumayum, Scientist-E, given a lecturer to the Students from Vivekananda Residential Public School on Environmental issues, aligned with the theme Land restoration, desertification and drought resilience on World Environment Day 2024 in the Centre on 5th May 2024.
 318. Dr. SD Gurumayum, Scientist-E, gave an interview at Akashvani Imphal for the Science Magazine Program to promote taxonomy among the youth of Manipur on May 31, 2024.
 319. Smt. Ilona J. Kharkongor, Scientist-E, delivered an invited lecture on "Drought Resilience Initiatives and Addressing Future Challenges" on 30th May, 2024, at JNK Public School, Itanagar.
 320. Dr. SD Gurumayum, Scientist-E, given a speech on the importance of observing WED to the school students as part of the celebrations for World Environment Day 2024 on 3rd June 2024.
 321. Smt. Ilona J. Kharkongor, Scientist-E, delivered a lecture on "World Environment Day: History and significance" on 5th June, 2024, during the WED 2024 programme held in the Centre.
 322. Dr. SD Gurumayum, Scientist-E, gave an interview on the role of ZSI in Taxonomy at Akashvani Imphal on June 18, 2024, for the Youth's Program.
 323. Dr. SD Gurumayum, Scientist-E, gave an interview on the role of ZSI to popularize Taxonomy among the youths of Arunachal Pradesh at Akashvani Itanagar on June 26, 2024, for the Youth's Program.
 324. Dr. SD Gurumayum, Scientist-E, delivered a lecture on Introduction to ZSI & Biodiversity of Arunachal Pradesh – at Two Days Training On Wildlife Conservation Science Organized by Wildlife Conservation Network (WCN) in collaboration with Zoological Survey of India (ZSI), APRC, Itanagar on 25th July 2024.
 325. Dr. G. Srinivasan, Sci-E, delivered a lecture on Bio-ecology of Potter Wasps and their nest associates & Grasshopper Taxonomy and Wasp Behaviour to the forestry student of NERIST, Nirjuli and JIGYASA University, Dehradun in their 70 Days internship programme in Centre from 21st to 24th Oct. 2024.
 326. Smt. IJ Kharkongor, Sci-E, Delivered 02 (two) Lectures as Resource Person during the Training for B.Sc (Forestry) students organized by SFRI, Itanagar. Butterfly diversity and Conservation w.r.t. Arunachal Pradesh (on 22nd October 2024). Introduction to the Herpetofauna of Arunachal Pradesh (on 23rd October 2024).
 327. Dr. Temjenmongla, Sci-D delivered a lecture on "Millipedes: An Introduction & Their Role in the Ecosystem", to the trainees participating in the 70-days Internship Training Programme for B.Sc Forestry students from NERIST, Nirjuli & JIGYASA University, Dehradun, affiliated with the Department of Environment, Forests & Climate Change, Government of Arunachal Pradesh, on 23.10.2024.
 328. Dr. SD Gurumayum, Scientist-E, given a talk

- on Need for Biodiversity Conservation during Awareness Programme on Biodiversity Conservation organised by APRC, ZSI, Itanagar in collaboration with Wildlife Conservation Network (WCN) and Eastern Himalayas Marbled Cat Project-INDIA at Poyom basti, Aalo, Upper Siang on 28th Nov 2024.
329. Dr. SD Gurumayum, Scientist-E, given an invited lecture on theme for International Mountain Day (IMD) 2024 is "Mountain solutions for a sustainable future – innovation, adaptation, youth and beyond" on December 11, 2024, at GB Pant Institute.
 330. Dr. Temjenmongla, Scientist-D, delivered a brief presentation on "Entomophagy of Nyishi tribe in the district of KurungKumey, Arunachal Pradesh, India", at PCCF, Itanagar, Arunachal Pradesh, which was part of a two-day research seminar focused on sharing research findings & plans from both protected & non-protected areas of Arunachal Pradesh, on 27th Feb., 2025.
 331. Dr. SD Gurumayum, Scientist-E, delivered a lecture on Faunal diversity of Arunachal Pradesh at Pilot Capacity Building Programme for BMCs of Arunachal Pradesh on 5th March, 2025 organised 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.
 332. Dr. SD Gurumayum, Scientist-E, Delivered an invited lecture on Current status of Animal Diversity in Arunachal Pradesh on 20/3/2025 at of Ecological Niche Modeling; Techniques and Applications for Biodiversity organized by NERC of G.B. Pant National Institute of Himalayan Environment (NIHE).
 333. Dr. S. Balakrishnan, Scientist – E & Officer-in-Charge, attended and presented half yearly progress report from April – September 2024 organized by ZSI, SbRC, Canning, West Bengal from October 23 – 25, 2024.
 334. Dr. Aditya Kapil Valiveti, Scientist – C (Chemi.), delivered a lecture entitled "Role of Water Quality in Ornamental Fish Management" during the one-day seminar program "Ornamental fish management in public aquariums held at MARC, ZSI, Digha on 02.09.2024, "Administrative and Scientific usage of Hindi in the propagation of knowledge of science & technology" was delivered during the "Hindi Pakhwada", 2024 conducted at Digha Science Centre on 25.09.2024, and "Hindi Terminology & Usage in Government Offices" was delivered during the "Hindi Week 2024" conducted at MARC, ZSI, Digha.
 335. Dr. S. Balakrishnan, Scientist – E & Officer-in-Charge, ZSI, MARC, Digha presented on the project entitled "Ecology, diversity, and distribution patterns of meiofauna assemblages from the Bay of Bengal Coast with Special Reference to Polychaete" under Deep Ocean Mission, Under the Thematic and Sub-Thematic Area: Ocean Biology [Biodiversity and Ecology], MoES, New Delhi on December 31, 2024.
 336. Dr. S. Balakrishnan, Scientist - E & Officer-in-Charge, ZSI, MARC, Digha, delivered a talk on the Overview of Life in Water [Coastal & Marine] by the Department of Biotechnology, Bon Secours College for Women, affiliated to Bharathidasan University, Thanjavur - 613 006, Tamil Nadu, India on December 21, 2024, through online platform.
 337. Dr. S. Balakrishnan, Scientist - E & Officer-in-Charge, ZSI, MARC, Digha, delivered a talk on the Overview of Coastal and Marine Biodiversity: Challenges, Threats and their Impacts on Climate Change by P.G. & Research Department of Zoology, C. Abdul Hakeem College (Auto.), affiliated to Thiruvalluvar University, Melvisharam – 632 509, Tamil Nadu, India on December 18, 2024, through online platform.
 338. Dr. P.C. Tudu, Scientist – D, delivered a talk on the "Marine Aquarium Fauna" by M.Sc., Biotechnology, Maharaja Sriram Chandra Bhanjdeo University, Baripada on 22.12.2024, "Marine fauna of Digha: Diversity and threats" B.Sc., Zoology students from Gurucharan College, Silchar, Assam on 16.01.2025.
 339. Dr. Aditya Kapil Valiveti, Scientist – C (Chemi.), delivered a lecture entitled "Effective management practices for public aquariums" during the one-day seminar program on "Techniques in Sampling, Preserving Marine Fauna, and Managing Public Aquariums" which was held at the Marine Aquarium Research Centre (MARC), ZSI, Digha, on January 16, 2025.
 340. Dr. S. Balakrishnan, Scientist – E & Officer-in-Charge, ZSI, MARC, Digha resource person and delivered an online lecture on "Importance and Biodiversity Conservation of Coastal and Marine Fauna of India: Challenges and their Prospects" 2 days "International Conference

- on Research Innovations and Trends in Life Sciences for Sustainable Development (ICRITLSSD-2025)”; to be held on 27th & 28th February 2025, organized by P.G & Research Department of Zoology, Sir Theagaraya College, Chennai – 600 021, Tamil Nadu, India.
341. Dr. S. Balakrishnan, Scientist – E & Officer-in-Charge, ZSI, MARC, Digha resource person and delivered an online lecture on “Biodiversity Conservation of Coastal and Marine Fauna of India: Biomedical, Biotechnology and their Prospects” 2 days ANRF (formerly SERB) - DST Sponsored “National Conference on Recent Innovation in Drug from Sea and Conservation of Marine Bioresources” 27th March 2025, organized by PG & Research Department of Zoology, V.O. Chidambaram College, Thoothukudi – 628 008, Tamil Nadu, India.
342. Dr. P.C. Tudu, Scientist – D, 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 18.03.2025, “Marine aquarium fauna” delivered to the Trainee Fishery Officers of different state under Central Institute of Fisheries Education (CIFE), Kolkata on 21.03.2025.
343. Dr. Aditya Kapil Valiveti, Scientist – C (Chemi.), delivered three lectures on “Role of water quality in aquarium fish management, and Effects of pollution on marine biodiversity” 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 18.03.2025, and “Marine aquarium and its importance in marine conservation and education,” organized by ZSI, MARC, Digha on 21.03.2025.



Dr. M. Kamalakannan, Scientist- C delivered a lecture on 'Tricho-taxonomy of Indian mammals' to the newly recruited Senior Zoological Assistants of ZSI.

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ElACP Centre on
Biodiversity (Fauna)





Training / Capacity Building Programme/ Workshop/ Seminar

1. 'Soil Invertebrates and Restoration Ecology' on 3rd June, 2024.
2. Awareness Seminar - International Mangrove Day on 26th July, 2024
3. World Mosquito Day 2024 on 20th August, 2024
4. Awareness Workshop to observe National Wildlife Week on 3rd & 4th October 2024
5. Capacity Building Programme for BMCs of Tamil Nadu on 3rd to 5th February 2025
6. Capacity Building Programme for BMCs of Andhra Pradesh & Telangana on 18th to 20th February 2025
7. Capacity Building Programme for BMCs of Arunachal Pradesh on 5th to 7th March 2025

Outreach Activities

1. 'International Day of Yoga' with the theme 'YOGA FOR SELF AND SOCIETY' on 21st June, 2024 at Chatterjeehat, Howrah with 15 school kids.
2. An exhibition counter was set up to display knowledge products during Animal Taxonomic Summit (ATS)-2024 at Taj Bengal, Kolkata on 1st and 2nd July, 2024.
3. Finalized two days National Awareness Wildlife Week Event - "Our Wildlife, Our National Heritage," at Labandhar, Purba Bardhaman.

Competitions organized

1. An elocution competition for college students was organized by EIACP Centre, ZSI, Kolkata in collaboration with Training and Extension Division, ZSI, on the topic of 'Land restoration, Desertification and Drought Resilience' on 5th June 2024.
2. In connection with World Ozone Day (2024) and the Launch of 'Swachhata Hi Seva', Sit & Draw competition was organized by EIACP Centre jointly with Training & Extension Division on 17th September 2024 with 19 participants.
3. In connection with National Wildlife Week (2024) a painting competition was organized among 19 boys and girls from the village of Labandhar, East Burdwan on the topic 'Our Wildlife' on 3rd October 2024. Certificates and prizes were given to the participants.
4. EIACP Centre, ZSI, Kolkata conducted a quiz competition for students at Mankar College, East Burdwan, West Bengal to generate consciousness about wildlife of India on 4th October 2024. Dr. Sukanta Bhattacharyya (Principal, Mankar College), teaching faculty and the students spontaneously participated in the program. Meaning and aim of Mission LiFE was also discussed. Around 125 people including teachers participated in the program. Certificates and prizes were given to the participants.
5. EIACP Centre on Biodiversity (Fauna) and Palaeozoology Division jointly organized a Digital Poster Competition on the theme "From Eons to Ages - Palaeobiological Evolution through the Geological Time Scale". 35 candidates participated across the country. The competition was launched on 5th December 2024 and submission deadline was 22nd December 2024.

Awareness Campaign

Mission LiFE awareness: 22 events; Ek Ped Maa Ke Naam: 7 events

Programme Participation

1. World Environment Day (WED)-2024- the Centre participated a plantation programme, at ZSI premises on 5th June 2024.
2. As a part of Swachhata Hi Seva 2024 Campaign, the Centre participated in Mega Cleanliness Drive at Prinsep Ghat, Kolkata organized by ZSI on 27th September 2024.

EIACP Knowledge Products developed

ZSI-EIACP NEWSLETTER (2023-24):

Theme: Important Days of Faunal Significance

- Volume 30 Issue 1
National Dolphin Day - National Aquatic Animal of India: Gangetic Dolphin (Hindi)
- Volume 30 Issue 2
World Turtle Day: Significance and Relevance in India

- Volume 30 Issue 3
World Snake Day: An Insight into Snakes and Snakebite in India
- Volume 30 Issue 4
International Vulture Awareness Day: Significance and Relevance in India

SPECIAL PUBLICATION: 2

- One Hundred Economically Important Beetles from West Bengal (under process)
- Important Days on Environmental and Faunal Significance in India (under process)

INFOGRAPHICS / POSTERS/ LEAFLET developed: 13

1. Earth Day: Planet vs Plastic (22 April 2024)
2. International Day for Biological Diversity: Be Part of the Plan (22 May 2024)
3. International Day of Yoga (21 June 2024)
4. World Environment Day 2024 (Infographic 1) (5 June 2024)
5. World Environment Day 2024 (Infographic 2) (5 June 2024)
6. World Environment Day-2024 (Infographic 3) (5 June 2024)
7. World Environment Day-2024 (Infographic 4) (5 June 2024)
8. World Snake Day: Interesting facts on Snakes (16 July 2024)
9. International Day for the Conservation of the Mangrove Ecosystem (26th July 2024)
10. International Tiger Day (29th July 2024)
11. Durga: Mission LiFE awareness (October 2024)
12. Sharod Subhechha: Swachhata Hi Seva & Ek Ped Maa Ke Naam (October 2024)

MEDIA INFOGRAPHIC: 4

- International Day for the Conservation of the Mangrove Ecosystem: (26 July 2024)
<https://www.youtube.com/watch?v=e5yDwMSrtsE>
- National Wildlife Day (2024): A tribute to National Heritage Animal of India (4 September 2024)
<https://www.youtube.com/shorts/qNXJ0d46zec>
- National Wildlife Week (2–8 October 2024)
<https://www.youtube.com/watch?v=3t2Z2P6XCxo>
- World Fisheries Day
<https://youtu.be/x36Exk8tf5o>

DESK CALENDAR:

2025 - Desk calendar on the theme of Important Environmental Days

WEBPAGE:

Scientific database update in form of webpage:

‘Faunal Diversity of India’ webpage with updated information along with statistical account as per latest faunal species data for India.

<https://zsienviis.nic.in/UserMajorActivities.aspx?ID=32096>

BMC TRAINING MODULE & MANUAL:

Summary Manual for Pilot Capacity Building Programme for the BMCs was developed in 3 vernacular languages, English, Tamil and Telugu.

DATABASE CREATION IN SPREADSHEET:

- As a part of preparing faunal database 8887 species data were compiled from Ramsar Wetlands of India. [Source: Banerjee et al. 2023. Faunal Diversity of 75 Ramsar Wetlands of India. Published by Director, Zoological Survey of India]
- Compilation of faunal data used in Traditional Knowledge (Indian perspective): 1621 species data



Pilot Capacity Building Programme for BMCs at Coimbatore, Tamil Nadu



Quiz contest at Mankar College



Sit & Draw competition to celebrate World Ozone Day



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Infrastructure
Developments



ZSI continuously upgrades its Scientific Divisions and Sections at Headquarters and Regional Centres to enhance operational efficiency. During 2024–2025, several such developments were initiated and successfully completed.



1. Protozoology Section, ZSI HQs has purchased few lab instruments such as Vortex mixture, Centrifuge, Distillation Unit etc.
2. The Mollusca Section ZSI HQs has been doing progressive development works for the beautification and enrichment of sectional museum such as reorganization and new orientations of the display in the museum, display of 754 specimens under 253 species & mollusca of the month in every month. Also the metadata of 6712 registered specimens have been prepared under 613 species. A total of 21 Ceiling LED lights and 12 Wall fans has been installed to the section through CPWD.
3. The Aterygota Section, ZSI HQs has installed LEICA M205A (Sl. No. 5714824) binocular microscope for digitizing of Apterygota fauna and LEICA DM 2500 (Sl. No. 375284), trinocular microscope for identification of the fauna and a smart TV has been installed in the section for describing Collembola taxonomy to visitors and students.
4. The Hemiptera Section ZSI HQs has purchased some of the sectional infrastructure such as slide cabinet with 5000 slides holding capacity (1 No.), printer (1 No.) and Scanner (1 No.), Chairs (4 Nos), computer Chair (1 No.) and Officer Chair (1 No.) under SERB funded whitefly project.
5. The Diptera Section ZSI HQs has developed a specialized High end DNA laboratory to enhance molecular research in the Section. In addition to this a specialized insect gallery showcasing pollinating, predatory, forensic, necrophagous and agricultural pest dipteran flies has been curated for the visitors.
6. The Reptilia Section, ZSI HQs has purchased and installed instruments for the new DNA laboratory.
7. Mammal & Osteology Section ZSI HQs has established a state-of-the-art National Centre for Wildlife Forensics and Conservation Genomics (C-WFCG) which was formally inaugurated by Ms. Leena Nandan (IAS), Secretary, Ministry of Environment Forest & Climate Change (MoEFCC) at the Mammal and Osteology Section on 16th August 2024 to cater the need of various Law Enforcement Agencies in identifying various seized articles using genetics and genomics tool.
8. Paleozoology Division, ZSI HQs has carried out repair works and painting of floors and the sectional almirah, trunks and file cabinets for maintaining sectional collections and valuable documents. Besides, different fossil collection tools for surveys such as drills, simple microscope and other necessary consumable material have been procured for sectional scientific work.
9. The Wildlife Section ZSI HQs has developed a Conservation Genetics & Lab and procured instruments for the lab at ZSI headquarters.
10. Some infrastructure for the sectional staffs has been also installed in the sections of ZSI HQs. The CEL Section got three (3) new computer system and five (5) chairs, the Freshwater Fish Section has got two new computers, the Lepidoptera got 4 Computer and 2 Internet points, 5 Revolving chairs, 1 Wall fan, 6 Ceiling lights, the Amphibia Section got three (3) revolving office chairs and the Crustacea Section walls has been whitewashed and the false ceiling replaced.
11. The ZSI North Eastern Regional Centre, Shillong has undergone three capital works as allocated to it. They are the up gradation of the office building of ZSI, Shillong and its national zoological collection (NZC) facility, laying of new water pipeline and construction of new water supply system for ZSI office-cum-residential complex, Shillong.
12. The ZSI Western Regional Centre, Pune has completed electrical renovation of the entire campus. Painting of the building and other miscellaneous work related to the building is under progress.
13. The ZSI Central Zone Regional Centre, Jabalpur is carrying out the following infrastructure developments
 - ✦ Establishment of DNA lab is under process, in this regard, Biogen scientific (gel documentation), Biogen Scientific (Refrigerated centrifuge), PCR Machine, Spectrophotometer has been installed.
 - ✦ In process to development of information gallery of CZRC Museum, sculptor of Dr. Thomas Annandale (Founder Director of ZSI), Cheetah, *Acinonyx jubatus jubatus* (Schreber, 1775), Sloth bear, *Melursus ursinus* (Shaw, 1791), Leopard, *Panthera pardus fusca* (Meyer, 1794) installed in the museum has been covered with glass cabinets.
 - ✦ In museum digital frames representing faunal diversity of region and KIOSK has been installed.
 - ✦ Painting of Guest room, Guard room and fixing of blinds and pigeon proofing of windows of office room and painting of quarters at ZSI Residential Colony completed through CPWD.

- ✖ Installation of New DC set, Video Conferencing setup, UPS, CCTV security cameras through CPWD.
14. The ZSI Dessert Regional Centre, Jodhpur has completed the following:
 - ✖ Annual repair (AR) & Maintenance operations (MO) to Residential and Non-Residential buildings for ZSI, DRC at Jodhpur during 2024-2025.
 - ✖ Termite Treatment in Residential and Non-Residential buildings for ZSI, DRC at Jodhpur during 2024-2025.
 - ✖ Repair of the underground water tank by P/L of floor & wall tiles inside the tank and P/L crazy ceramic tile flooring with brick bat coba over the terrace of the underground water tank, repair of existing rainwater drain, and misc. work at ZSI, DRC at Jodhpur.
 - ✖ Supplying and placing furniture for the conference hall in ZSI, DRC at Jodhpur 2024-25.
 - ✖ Maintenance operations of Electrical installations, Fans and Street light, Routine Maintenance operations (RMO) of Pumping Set for ZSI office and Residential Quarters at Jodhpur has been done.
 - ✖ Development of garden area attached to ZSI office building at Jodhpur during 2024-2025 (SH: Landscape and Plantation work).
 15. The ZSI Northern Regional Centre, Dehradun has renovated and modernized the old Conference Hall, old toilets and Visiting Scientist Hostel of the centre. The whitewash and minor repairs of ZSI, NRC, Dehradun Office Building and Residential Quarters completed by CPWD (Civil) and electrical fitting work by CPWD (Electrical), Dehradun.
 16. The ZSI Southern Regional Centre, Chennai has completed the construction of three floors of the office building.
 17. The ZSI High Altitude Regional Centre, Solan has done annual repair works (AR) and routine maintenance operations (RMO) and assessed structural health of the building infrastructure of its residential and non-residential buildings. The routine maintenance operations of electrical equipment has been carried off. Maintenance operations (MO) of Diesel generator Set, pumps and Lift of museum and office building has been done. In addition to this, there has been repair and up gradation of Establishment office and provision of Barrier free elements has been acquired.
 18. The ZSI Gangetic Plains Regional Centre, Patna has purchased 05 Computers, 02 Printers, 02 Camera lens+ Field Binoculars, 01 GPS for carrying out scientific and administrative works at the centre.
 19. The ZSI Marine Biology Regional Centre, Chennai has set up a new DNA Molecular Lab equipped with modern technology to support research groundbreaking studies in genetics.
 20. The ZSI Andaman and Nicobar Regional Centre has completed the following works
 - ✖ Established EIACP Centre on Island Biodiversity in ZSI, Port Blair.
 - ✖ Acquired land for construction of National Coral Reef Research Institute (NCRRI) from Andaman and Nicobar Administration and Preliminary Estimate submitted to Ministry of Environment, Forest & Climate Change (MoEF&CC) for administrative approval and financial sanction.
 - ✖ Constructed compound wall at the newly allotted land for National Coral Reef Research Institute (NCRRI).
 - ✖ Constructed Visiting Scientists Hostel in the ZSI quarter's campus and ready for inauguration.
 - ✖ eDNA meta barcoding envisaged exploration of the IUCN Red Listed Marine Mammals in the Oceanic Premises of the Andaman Islands, India has been submitted to Ministry of earth Science (MoES), under Deep Sea Mission for financial sanction.
 - ✖ Genome-guided tagging of heat-evolved Symbiodiniaceae clades increases the coral bleaching tolerance in Andaman and Nicobar Islands has been submitted to SERB-DST, under Core Grant Research.
 - ✖ Modernization of existing auditorium is completed.
 - ✖ LED name board with ISO number has been fixed in the main entrance of the office building.
 - ✖ Name Board for EIACP Centre on Island Biodiversity has been fixed in front of the office buildings.
 21. The ZSI Sunderban Regional Centre, Canning has developed the Museum and Library at the centre.
 22. The ZSI Western Ghat Regional Centre, Kozhikode has purchased Whirlpool Refrigerator, Printer, Wooden Teapoy, Sofa Set, Counter Chair, Projector, Sofa Set, Slide cabinet for smooth running of the office at the centre.
 23. The ZSI Eustarine Biology Regional Centre,

Gopalpur has completed the construction of Approach Road and new main gate. A mosquito blood feeding device and 3 Deep freezers for the storage of specimens has been procured. In addition, some furniture has been purchased.

24. The ZSI Marine Cum Aquarium Regional Centre, Digha has completed the following works.

- ✦ Special repair to the non-residential building of ZSI, MARC, Digha and repair and renovation and providing wall and floor tiles for the toilets on first floor.
- ✦ Residential building for an occupied quarter, iron removal filtration plant of capacity 35

List of items purchased at the Headquarters during the reporting period

Sl. No.	Description
1	Computers
2	Printers
3	Monitors
4	Photocopier Machine
5	Cartridges
6	Chairs
7	Critical Point Dryers
8	Stock Purpose Items
9	Split Air Conditioner
10	Insect Storage Cabinet
11	Smart Television
12	Entomological Pins
13	Stationery Items
14	Stereozoom Microscope
15	Refrigerator
16	Equipment for DNA
17	Biometric Machine
18	Items for Preservation of Specimens
19	Steel Book Case
20	Pen Drives

cum/hr, carbon filter of capacity 10 cum / hr, and 01 No. pressure filtration plant of capacity 22 cum/hr.

- ✦ Waterproofing treatment of water intake structure on the seaside and 2 Nos. Setting tank at seaside tank, and sedimentation water tank.
- ✦ Officer-in-Charge of room repair, renovation, and up gradation.
- ✦ Special repair and upgrade work of non-residential buildings of ZSI, MARC, Digha.

Annual Maintenance Contracts have been concluded for various equipment through the tendering system. The details are as follows.

Sl. No.	Details
1	AMC of Computers & Printers
2	AMC of Leica Microscope
3	AMC of Nikon Microscope
4	AMC of SEM
5	AMC of Split Air Conditioner
6	AMC of Photocopier Machine
7	AMC of DNA Equipment



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Events and Activities



ZSI Headquarters and all Regional Centres actively organize various events and activities to raise awareness about biodiversity and its conservation



National Day Celebrations



Independence day celebration held at ZSI-HQ



Republic Day celebration held at ZSI-HQ



Rabindranath Tagore Jayanti celebration at ZSI-HQ



Har Ghar Tiranga Campaign observed by NRC



Har Ghar Tiranga Campaign observed by EBRC



Constitution Day was observed by MARC



Independence day celebration held at WGRC

ZSI Day- 109th Foundation Day Celebration



ZSI Day (109th Foundation Day)



A book release during the Animal Taxonomy Summit 2024



Animal Taxonomy Summit 2024



Inaugural Talk by the Director, ZSI during the ZSI Day

MoU



Exchange of MoU between Zoological Survey of India and Berhampur University, Odisha



Exchange of MoU between Zoological Survey of India and Birla Institute of Technology and Science, Pilani



Exchange of MoU between Zoological Survey of India and West Bengal State Electricity Distribution Company Limited

Ek Ped Maa Ke Naam



Ek ped maa ke naam by EBRC



Ek Ped Maa Ke Naam by the Union Cabinet Minister for Environment, Forest and Climate Change, Shri. Bupendra Yadav



Saplings planted Ek Ped Maa Kae Naam Campaign by FRI DU students by NRC

Meetings & Felicitations



"Ganga Darpan" was presented to the Hon'ble Minister of State, MoEFCC, Shri Kirti Vardhan Singh, by GPRC



A book release on Advanced studies on Fish Systematics by FBRC



Discussion with Trainees of Forest Training Institute, Uttarakhand by NRC



A Centre for Wildlife Forensics and Conservation Genomics was inaugurated by the Hon'ble Secretary, MoEFCC, Ms. Leena Nandan, at ZSI-HQ, Kolkata



Annual meeting of Senior Officers of ZSI held at ZSI-HQ



Half yearly meeting of ZSI organized held at Kolkata

Meetings & Felicitations



Hon'ble Secretary, MoEFCC, Ms. Leena Nandan at the Centre for Wildlife Forensics and Conservation Genomics, ZSI-HQ, Kolkata



Inauguration of New Building Construction at SRC, Chennai



विमोचन of Koshika 3.0 Patrika by WRC

Training



A Hindi workshop was conducted at ZSI- HQ



A hands-on training programme on corals and coral-associated fauna was organized by ZS



A capacity building programme on socio-economically important insects for improving livelihood was held at ZSI-HQ



A National Conference on Invasive Alien Fauna Threats and Challenges was organized by ZSI, Kolkata



A National Conference on Invasive Alien Fauna Threats and Challenges was organized by ZSI



A training programme e-office was conducted to the staff of ZSI- HQ

Training



A training programme GIS and RS was conducted at ZSI- HQ



A training programme on wildlife forensics was conducted for the selected Senior Zoological Assistants at ZSI- HQ



A training programme was conducted to the Forest staff Tamil Nadu by SRC



Collection, Identification, preservation Workshop conducted to the College students by WRC



One day training programme by MARC

Training



Science Academic Lecture Workshop for Teachers and Students sponsored by INSA by ANRC



Students from Nagaland visited the ZSI-HQ



The probationary Forest Range Officers visited the ZSI-HQ Museum



The probationary Assistant Conservator of Forests visited the ZSI-HQ Museum

National & International Days Celebrations



World Environment Day celebrated by ZSI-HQ



ZSI Annual Sports conducted by ZSI-HQ



World Environment Day celebrated by APRC



Celebration of International Day for Biological Diversity by NERC



Celebration of Wildlife week by NERC

National & International Days Celebrations



International Womens Day celebrated by HARC



International Yoga Day celebrated by FBRC



International Yoga Day celebrated by GPRC



Plantation under Ek Ped Maa ke naam at DRC



International Yoga Day celebrated by WGRC

Mission LiFE



An e-dustbin was launched at ZSI-HQ



Mission LiFE activities organized by HARC

Swachhata Hi Seva



A mega cleanliness drive under the Swachh Hi Seva was organized by ZSI-HQ



A mega cleanliness drive under the Swachh Seva Campaign was organized by ZSI-HQ



Student posing for selfie as a part of Swachhata Hi Seva 2025 organized by APRC



Swachtha Campaign organized by MARC

Swachhata Hi Seva



Beach cleaning under the Swachh Hi Seva was organized by SRC



Beach cleaning under the Swachh Hi Seva was organized by WGRC



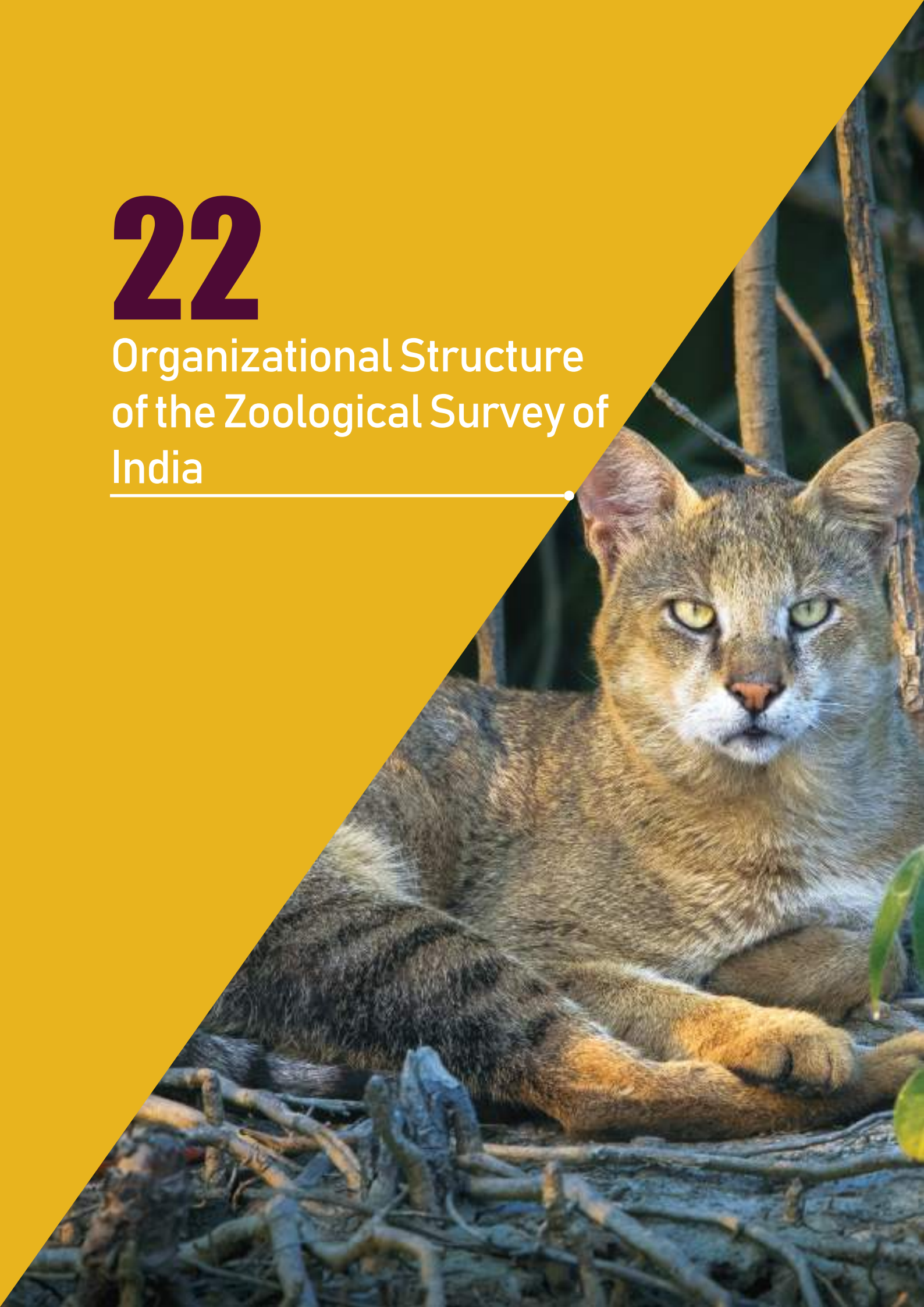
Swachata Campaign Events 4.0 at Pawana River on by WRC



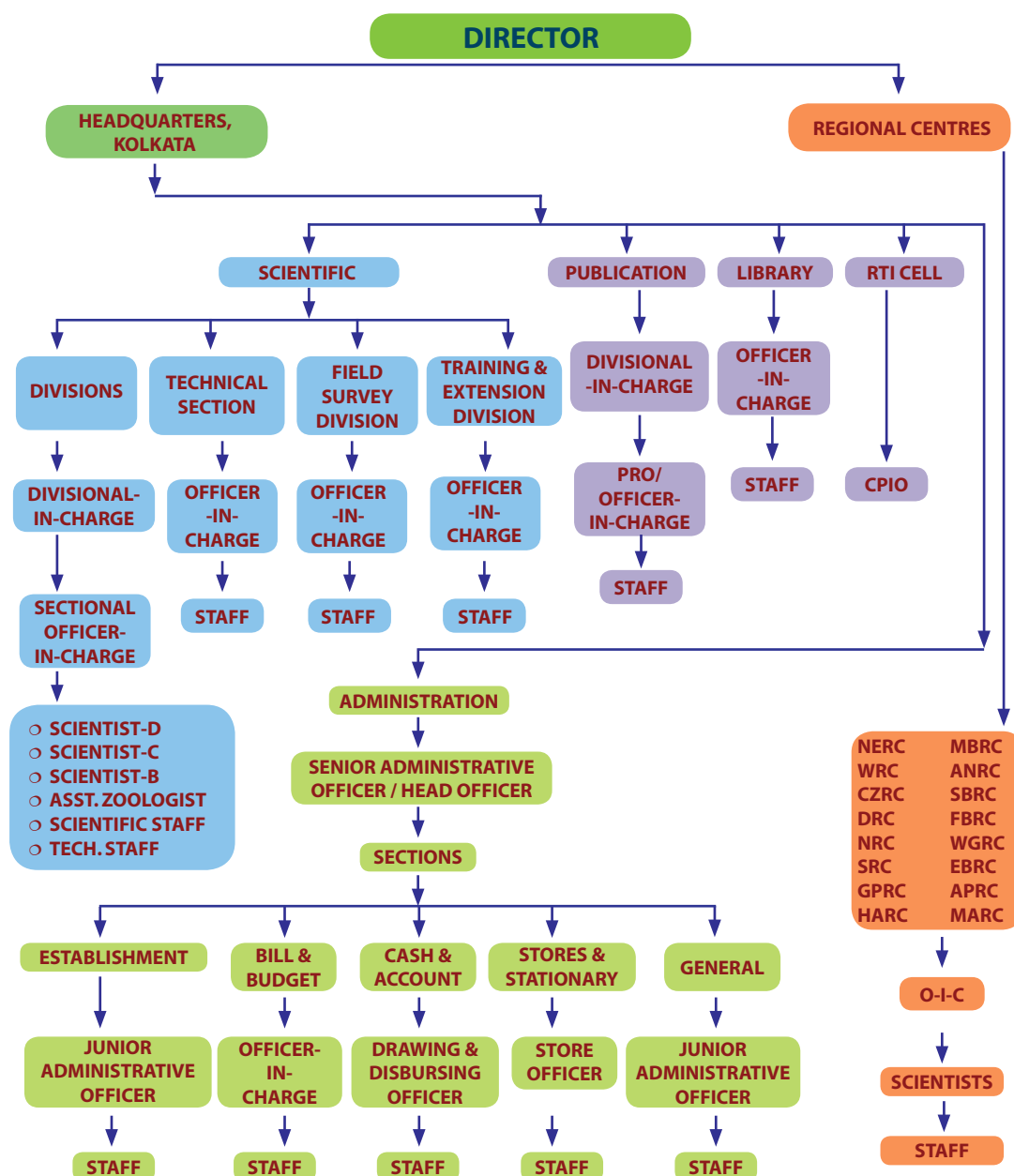
Swachtha Campaign organized by FBRC

22

Organizational Structure of the Zoological Survey of India



ZOOLOGICAL SURVEY OF INDIA ORGANIZATIONAL STRUCTURE



23

Budget



Statement of Actual Expenditure up to 31.03.2025 (From 01.04.2024 to 31.03.2025)

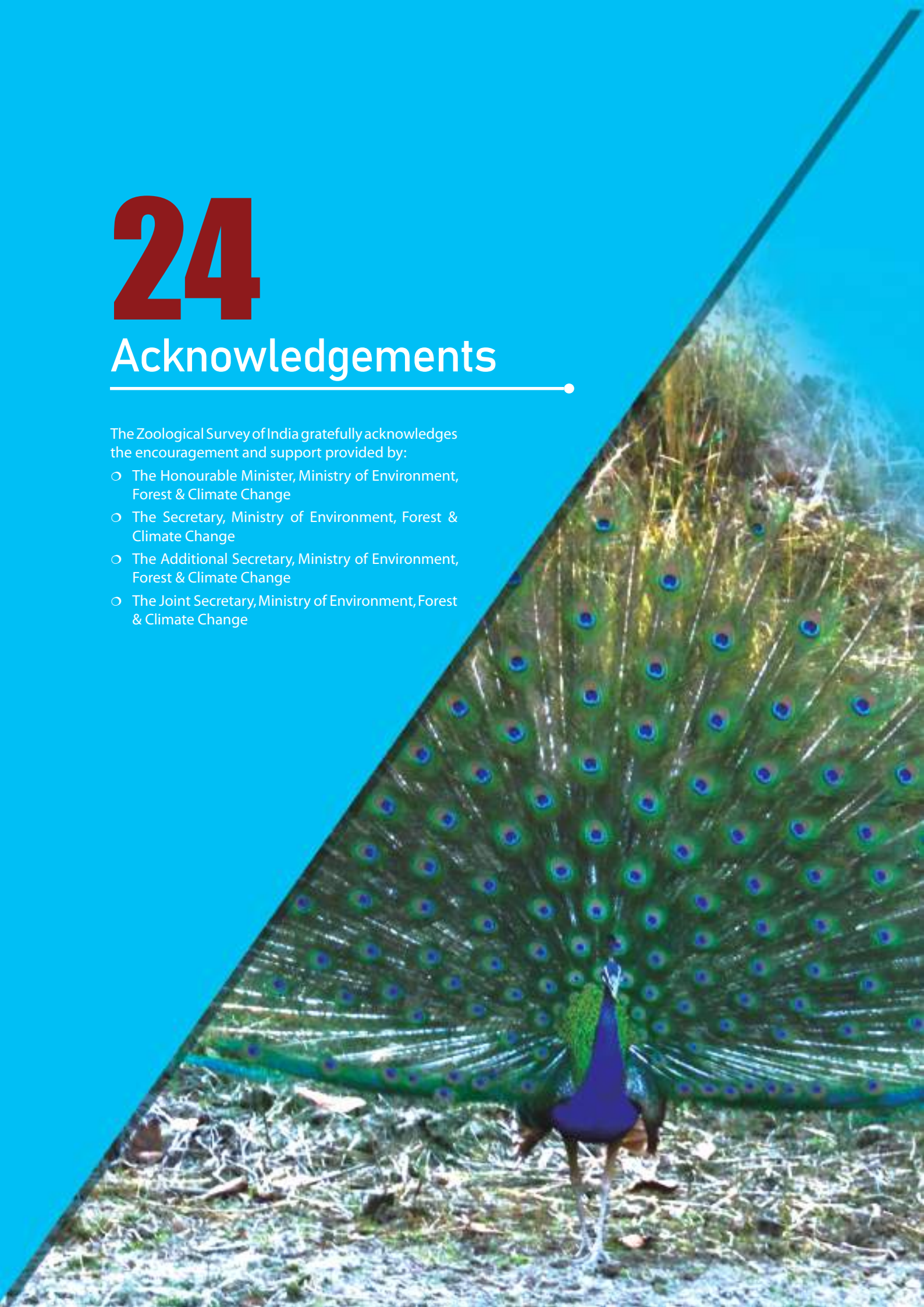
(Figures in Rupees)								
Major Heads, Sub Major Head, Minor Head	Object Head	Budget Estimate 2024-25	Revised Estimate 2024-25	Expdt. Upto the 31.03.25	Fund Utilised by CCU	Total Exp. (5 + 6)	Balance	Per- centage
1	2	3	4	5	6	7	8	9
3435.01.001								
04.02.01	Salary	3.6E+08	3.76E+08	3.76E+08	0	3.76E+08	13261	100.00
04.02.02	Wages	1200000	1070000	1065878	0	1065878	4122	99.61
04.02.05	Reward	3000000	2800000	2797305	0	2797305	2695	99.90
04.02.06	Medical	7800000	9600000	9597375	0	9597375	2625	99.97
04.02.07	Allowances	2.97E+08	3.13E+08	3.13E+08	0	3.13E+08	12289	100.00
04.02.08	LTC	9500000	6500000	6496544	0	6496544	3456	99.95
04.02.11	D.T.E.	32000000	34700000	34689236	0	34689236	10764	99.97
04.02.12	F.T.E.	2000000	1730000	1727521	0	1727521	2479	99.86
04.02.13	O.E.	2.4E+08	2.18E+08	2.18E+08	0	2.18E+08	2069	100.00
04.02.14	RRT	2700000	2500000	2499598	0	2499598	402	99.98
04.02.16	Printing & Publication	10000000	9000000	8999729	0	8999729	271	100.00
04.02.19	Digital Equipment	7000000	5700000	5675598	0	5675598	24402	99.57
04.02.21	Supplies & Material	39000000	32000000	31997876	0	31997876	2124	99.99
04.02.24	Fuel & Lubricants	3000000	2400000	2398684	0	2398684	1316	99.95
04.02.27	Min.Works	64430000	57400000	57400000	0	57400000	0	100.00
04.02.29	Repair & Maintenance	9000000	7700000	7697540	0	7697540	2460	99.97
04.02.31	Grants-in-Aid	70000	70000	70000	0	70000	0	100.00
04.02.34	Sch. & Stp.	30000000	28250000	28247130	0	28247130	2870	99.99
04.02.49	Oth. Rev. Expenditure	2400000	1400000	1397245	0	1397245	2755	99.80
Total :		1.12E+09	1.11E+09	1.11E+09	0	1.11E+09	90360	99.99
Capital (Excluding Building and Structure)								
5425.00.208								
13.02.51	Motor Vehicle	0	0	0	0	0	0	0.00
13.02.52	Machinery & Equipment	10000000	8300000	8299328	0	8299328	672	99.99
13.02.71	ICT equipment	10000000	9200000	9198674	0	9198674	1326	99.99
13.02.74	Furniture & Fixtures	10000000	7647000	6416383	1200045	7616428	30572	99.60
Total :		30000000	25147000	23914385	1200045	25114430	32570	99.87
G.Total :		1.15E+09	1.14E+09	1.13E+09	1200045	1.14E+09	122930	99.99

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Acknowledgements

The Zoological Survey of India gratefully acknowledges the encouragement and support provided by:

- The Honourable Minister, Ministry of Environment, Forest & Climate Change
- The Secretary, Ministry of Environment, Forest & Climate Change
- The Additional Secretary, Ministry of Environment, Forest & Climate Change
- The Joint Secretary, Ministry of Environment, Forest & Climate Change





ZOOLOGICAL SURVEY
OF INDIA
1916



ZOOLOGICAL SURVEY OF INDIA

Ministry of Environment, Forest and Climate Change
Government of India
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