

ZSI E-News

Vol. 63 | April 2024 | Monthly E-Newsletter from Zoological Survey of India

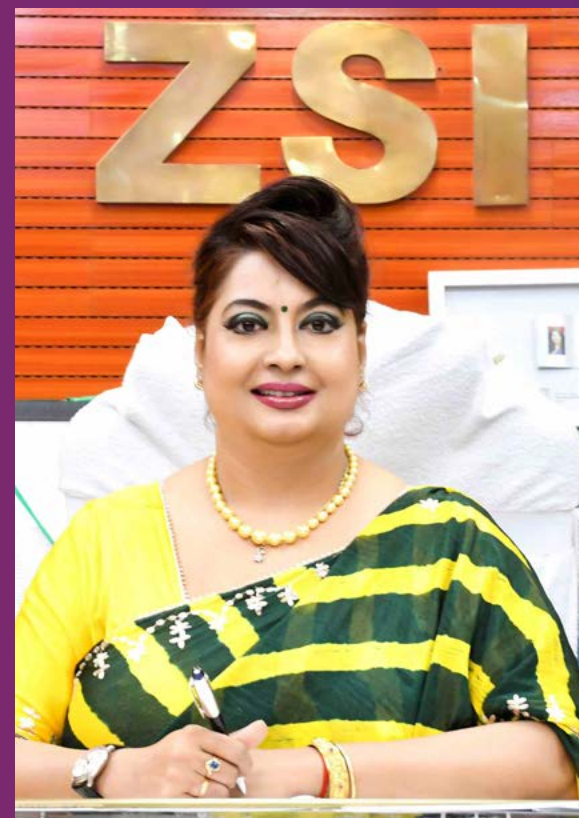


from the Director's Desk

It is my pleasure to introduce to you the April 2024 edition of Zoological Survey India's monthly E-News, filled with the latest achievements, advancements and discoveries in the fields of research and faunal exploration. In these e-pages, you will embark on an enthralling journey through the frontiers of science and exploration, where each article stands as a testament to taxonomical progression, conservational efforts and creativity to safeguard the biodiversity.

Our devoted team of researchers and explorers has traveled the various ecosystems of India, uncovering hidden treasures and unraveling the mysteries of the natural faunal world. From the ocean depths to the mountain peaks, their relentless efforts have provided groundbreaking insights into the delicate balance of ecosystems and the diverse range of species that call our planet home.

The Zoological Survey of India entered into Memorandum of Understanding (MoU) with ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga, Bhubaneswa, Odisha, and Berhampur University, Odisha to enhance research collaboration. The 19th Research Advisory and Monitoring Committee (RAMC) meeting took place on 11th -12th April 2024 in Panchmarhi, Madhya Pradesh. During the meeting, the Director of ZSI extended a warm welcome to the RAMC members and expressed gratitude to the Chairperson Dr. Nandita Chatterjee, IAS (Retd.), former Secretary, Ministry of Rural Development, former Additional Secretary, MoEFCC, Ms. Nameeta Prasad, Joint Secretary, MoEFCC, and all RAMC members for their active involvement. Additionally, a DST-SERB sponsored Karyashala (High-End Workshop) on Hands-on Training on Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring was held from 15th -23rd April 2024. The event was attended by Shri Janardan Prasad, Director General, Geological Survey of India, Kolkata as the Chief Guest and Lt. Col. Anant Sinha, Director, The Asiatic Society, Kolkata as the Guest of Honour. The workshop saw participation from 25 Post Graduate students and Ph.D. Scholars representing 25 institutes from across India covering 18 states and UTs. Furthermore, the ZSI Annual Progress Monitoring Meeting of Senior Officers of HQ and Regional Centres was conducted from 29th April to 1st May 2024 at ZSI, HQ, Kolkata under the Chairmanship of Dr. K. Venkataraman, Former Director, ZSI, and with the presence of External Member Dr. Urmi Chatterji, Professor, Calcutta University through Hybrid Mode. Throughout the month, ZSI scientists identified a total of 1405 species of faunal communities, described four new species including Coleoptera, Hymenoptera, and Crustacea,



and reported one scleractinian coral as a new record in Indian waters.

I express my deepest gratitude to our team of researchers, explorers, and contributors whose passion and dedication make these achievements possible. Their unwavering commitment to excellence is truly inspiring, and I am privileged to collaborate with such talented individuals.

I am confident that this edition of the E-News will effectively motivate readers to participate in ZSI activities with greater efficiency.

Jai Hind,

Dr. Dhriti Banerjee

Director
5th May 2024
Kolkata

HEADQUARTERS, KOLKATA

Surveys were carried out in North Andaman Island, Cooch Behar district, and the associated areas of West Bengal. A total of 405 species of faunal communities belonging to Arachnida, Chalcididae, Dermaptera, Hemiptera, Formicidae, Orthoptera, Nematodes, Platyhelminthes, Acanthocephala, Mollusca, and Aves were identified during the month. Additionally, one species of coral was discovered as a new addition to the Indian fauna. Furthermore, nine species of Nematodes and Platyhelminthes were

augmented to the National Zoological Collections. Identification and advisory services were provided to Nagaland University, Forest Range Officer, Lalgarh Range, Medinipur Division, and the Centre for Marine Biodiversity, Department of Aquatic Biology and Fisheries. A DST-SERB Karyashala (High-End Workshop) on Hands-on Training on Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring was organized at ZSI, Kolkata on 15th to 23rd April 2024.

Cover: Andaman Day Gecko *Phelsuma andamanensis* Blyth, 1861. Courtesy: ANRC, Portblair

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NORTH EASTERN REGIONAL CENTRE, SHILLONG, MEGHALAYA

A total of 58 species of faunal communities belonging to Hemiptera, Orthoptera, Odonata, Lepidoptera, Mollusca, Decapoda, Araneae, Pisces, Reptilia and Aves were identified during the month. Identification and advisory services were rendered to Wildlife Trust of India. Students of Thomas Jones Synod College, Jowai visited the centre.



NERC staff undertaking maintenance of animal exhibits at Raj Bhavan on the 30th April 2024



Visiting students of Synod college, Jowai

WESTERN REGIONAL CENTRE, PUNE, MAHARASHTRA

Three local surveys were conducted to Kamshet, Shindewadi, Lonkar Nagar, Mundhwa. A total of 121 species of faunal communities belonging to Coleoptera, Chilopoda, Crustacea, Hemiptera, Hymenoptera, Mollusca, Pisces and Reptilia were identified during the month. One species of crab and one species of beetle are described as new to science. Identification and advisory services rendered to Karvir Police Station, Kolhapur, Pelhar Police Station, Palghar, Government College of Arts and Science College, Chhatrapati Sambhajnagar, Maharashtra, Sir Parashurambhau College (Autonomous), Pune, M.E.S. Mampad College (Autonomous), Kerala, and Ahmednagar College, Maharashtra.



Great Eggfly, *Hypolimnas bolina* (Linnaeus, 1758)



Nanda Lake in Goa

CENTRAL ZONE REGIONAL CENTRE, JABALPUR, MADHYA PRADESH

A total of 72 species of faunal communities belonging to Coleoptera, Lepidoptera, Hemiptera, Mollusca, Chilopoda, and Reptilia were identified. Identification & Advisory service was rendered to Jawaharlal Nehru Krishi Vishwavidyala, Jabalpur. Students from various institutes of Jabalpur including Home Science College, and Ashoka Hall Senior Secondary school visited the museum of the centre.



Museum visit by students of Ashoka Hall Senior Secondary School on 15th April 2024.



Lecture session for students of M. Sc. Zoology 4th Sem. of M.H Science and Home Science College as part of the Internship programme.



View of stream in Mount Abu WLS

DESERT REGIONAL CENTRE, JODHPUR, RAJASTHAN

A total of 43 species of faunal communities belonging to Gastropoda, Insecta, & Pisces were identified during the month. Identification and advisory services were rendered to JNV University, Jodhpur, and BGSB University Rajouri (J&K).



Red-naped Ibis *Pseudibis papillosa* (Temminck, 1824)



Mission Life activities conducted by planting saplings by Prof. Deepak Rai, Chairman, Department of Zoology, Kurukshetra University, Haryana

NORTHERN REGIONAL CENTRE, DEHRADUN, UTTARAKHAND

A total of 65 species of faunal communities belonging to Phthiraptera, Orthoptera, Lepidoptera, Amphibia and Reptilia were identified during the month. Scientists of the Centre Reviewed Two Research papers. Various activities under "MISSION LIFE" were carried out like taking Pledge, Sapling Plantation and awareness campaign to Save Water and Cleanliness, Interactive session with students of Kurukshetra University, Haryana; D.N. (P.G.) College, Meerut; Samrat Prithviraj Chouhan P.G. College, Uttarakhand on 1st, 4th and 8th April 2024 consecutively.



Mission Life Pledge taken by faculty and students of Kurukshetra University

Celebration of International Mother Earth Day organised by GPRC, ZSI, Patna on 22nd April 2024



GANGETIC PLAINS REGIONAL CENTRE, PATNA, BIHAR

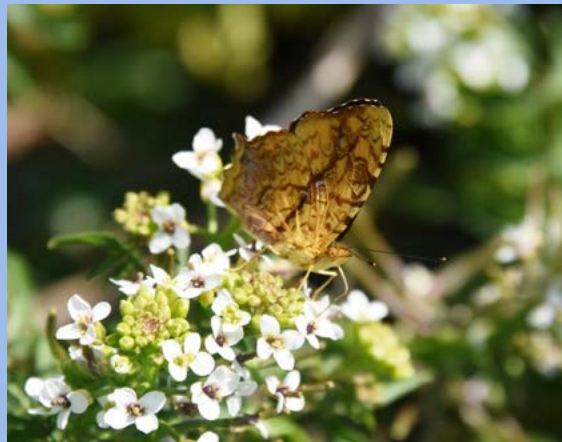
One local survey was conducted to Baraila Lake. A total of 40 species of faunal communities belonging to Insecta, Mollusca, and Pisces were identified during the month. International Earth day was celebrated in the centre.



A field survey to Baraila wetland by Dr. M.E. Hassan and intern students



Dhuala Dhar range visible from Kangra District



Symbrenthia lilaea from Agroecosystem of Mid Hills of Himachal Pradesh

HIGH ALTITUDE REGIONAL CENTRE, SOLAN, HIMACHAL PRADESH

A total of 38 species of faunal communities belonging to Reptilia, and Pisces were identified during the month. Identification and advisory service was rendered to Post Graduate Govt. College, Chandigarh.



Stichodactyla mertensii (Brandt, 1835)

ANDAMAN AND NICOBAR REGIONAL CENTRE, PORT BLAIR, ANDAMAN AND NICOBAR ISLANDS

One long term survey was conducted to Great Nicobar Island and local field surveys were conducted to Kalatang; Shoal Bay, Pongibalu, Collinpur, Burmanallah, Kodyaghat, Carbyn's Cove, South Andaman. A total of 136 species of faunal communities belonging to Coleoptera Lepidoptera Odonata Mollusca Pisces Reptilia and Aves were identified during the month.



Nicobar Map *Cyrestis tabula* de Nicéville, 1883



Hippocampus kuda Bleeker, 1852

SUNDERBAN REGIONAL CENTRE, CANNING, WEST BENGAL

One day local Survey was conducted in Sunderbans and one day local survey undertaken in Diamond harbor fish landing center. A total of 16 species of faunal communities belonging to Crustacea, and Pisces were identified during the month.



Tubastraea micranthus (Ehrenberg, 1834)



Chamaeleo zeylanicus Laurenti, 1768

FRESHWATER BIOLOGY REGIONAL CENTRE, HYDERABAD, TELANGANA

Survey was conducted to Kinnersani and Pakhal Wildlife Sanctuary, Telangana. A total of 81 species of faunal communities belonging to Coleoptera, Hemiptera, Mollusca, Branchiopods, Ostracods, Decapoda and Pisces were identified during the month. Students from N.A.C Arts & Science College, Maharashtra visited the centre.



Alauda gulgula
Franklin, 1831

Varanus bengalensis (Daudin, 1802)



WESTERN GHAT REGIONAL CENTRE, KOZHIKODE, KERALA

A total of 121 species of faunal communities belonging to Testate amoebae, Scolopendromorpha, Hemiptera, Hymenoptera, Dermaptera, Coleoptera, Mantodea, Arachnida, and Pisces were identified during the month. One species of Coleoptera and one species of Hymenoptera are describes as new to science. Identification and advisory services were rendered to Kodancherry Govt. College, Anand Agricultural University, and Punjab University.



Smt. Anagha S. and Dr. Girish Kumar P. with her Ph.D. thesis



Inauguration of Main Gate by the Director, ZSI

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

A survey tour was conducted at Bahuda Estuary. A total of 97 species of faunal communities were identified during the month. Six DNA barcodes belonging to three species were uploaded in the NCBI data base. Five turtles were tagged onshore during this month. A MoU between ICAR-CIFA and the Zoological Survey of India was signed on 1st April 2024 between the Directors of both the institutes in ICAR- CIFA, Bhubaneswar. A MoU signing ceremony was organized in the premises of the centre between Zoological Survey of India and Berhampur University on 3rd April 2024. Honourable Vice Chancellor, Berhampur University, Prof. Geetanjali Dash and Honourable Director, Zoological Survey of India, Dr. Dhriti Banerjee signed a Memorandum of Understanding to enhance the scientific knowledge sharing. Dr. Dhriti Banerjee, Director, Zoological Survey of India, inaugurated the “Main Entrance Gate” of the Centre and interacted with CPW&D officials. Students and teachers of Ramajee Degree Mahavidyalaya, Bishmagiri visited the museum. Mr. Rajesh Kumar Behera, Senior Research Fellow at EBRC, ZSI won the Best Poster Presentation Award at Research Scholar’s Conclave organized at Fakir Mohan University, Balasore on 30th April 2024.

Entrance Gate of EBRC, Gopalpur





Suvey team at fringe village, Kane WLS, Lower Siang District, Arunachal Pradesh

ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR, ARUNACHAL PRADESH

A survey was conducted to Kane Wildlife Sanctuary and Yordi-Rabe Subse Wildlife Sanctuary. A total of 89 species of faunal communities belonging to Lepidoptera, Orthoptera, Hemiptera, Pisces and Amphibia were identified during the month. Identification & advisory services was rendered to Nagaland University.



Gametes histrio (Olivier, 1789)

MARINE AQUARIUM AND REGIONAL CENTRE, DIGHA, WEST BENGAL

Surveys were conducted to West Bengal and Odisha Coasts. A total of 89 species of faunal communities belonging to Polychaete, Mollusca, Nematoda, Crustacea, and Pisces were identified during the month. A total of 14 gDNA and 16 PCR products have been amplified. Students from educational institutions of Assam, West Bengal, Odisha and Maharastra visited the museum as part of educational tour.



Turricula javana (Linnaeus, 1767)



Students from Zoology department of Alipurduar University visited and interacted with the staff members of MARC ZSI Digha on 3rd April 2024

NEW DISCOVERIES

NEW SPECIES



Rhopalobates pali Hegde, Viswanath, & Ruzzier, 2024



Mr & Mrs Ghat Crab, *Ghatiana dvirupa*
Pati, Bajantri & Hegde, 2024



Tiphia andhraensis Hanima & Girish Kumar, 2024



Moreshwar beetle
Omorgus (Afromorgus)
moreshwar

NEW RECORDS PUBLICATIONS

BOOKS

1. Singh, A.K., Kumar, M. and Kushwaha, S. 2024. *Practical Manuals for Animal Husbandry, Livestock, Nutrition, and Dairying*. pp 1-178. Rathore Academic Research Publications, New Delhi. (ISBN: 978-81-971624-9-7).
2. Singh, A.K., Kumar, M. and Kushwaha, S. 2024. *Text Book of Animal Nutrition and Biochemistry*. pp 1-221. Rathore Academic Research Publications, New Delhi. (ISBN: 978-81-971624-8-0).
3. Singh, N., Joshi, R, Kendrick, R.C, Pathania, P.C. and Banerjee, D. 2024. *An illustrated guide to the Lepidoptera of India. Taxonomic procedures, family characters, diversity and distribution*. 308pp. (Published by Director, Zoological Survey of India, Kolkata).

PAPERS

1. Hanima Raveendran, K.P., Girish Kumar, P. and Hegde, V.D. 2024. Description of a new species of *Tiphia* Fabricius, 1775 (Hymenoptera: Tiphidae: Tiphinae) from Andhra Pradesh, India. *Journal of Insect Biodiversity and Systematics*, 10(2): 321-326.
2. Hegde, V. D., Viswanath T.K. and Ruzzier, E. 2024. Description of a new species of the genus *Rhopalobates* Fairmaire, 1897 (Coleoptera: Tenebrionidae) from northeastern India. *Annales Zoologici (Warszawa)*, 74(1): 143-147.
3. Kalawate, A.S. and Strümpher, W.P. 2024. Catalogue of species of the subgenus *Afromorgus* Scholtz, 1986 (Coleoptera: Trogidae: Omorginae) known from the Oriental and Palaearctic Regions, including a description of one new species from the Deccan Plateau in India. *Zootaxa*, 5437 (1): 21-63. <https://doi.org/10.11646/zootaxa.5437.1.3>
4. Maheswaran, G. 2024. Valmiki Tiger Reserve: At the junction of Himalayan fauna. *Sanctuary Asia*, 44(4): 44-49.
5. Maheswaran, G. 2024. Book Review: The Painted Stork: Exploring Ecology and Conservation in India. *AbdulJamilUrfi. Current Science*, 126(7): 0850-0851
6. Mandal, U., Suman, U.M., Dutta, J., Dixit, V. and Suman, D.S. 2024. Surveillance of mosquitoes harnessing their buzzing sound. *Acta tropica*, 107221. <https://doi.org/10.1016/j.scenv.2024.100100>
7. Mohapatra, S.K., Swain, A., Roy, S., Tripathy, B., Mohapatra, A. and Seth, J.K. 2024. Low diversity, high dominance, and high host prevalence of parasitic isopods of the family Cymothoidae in Chilika lagoon, India: a comparative study between a semi-enclosed ecosystem and its adjoining open region. *Parasitological Research*, 123: 188. <https://doi.org/10.1007/s00436-024-08208-y>
8. Mondal, T. and Raghunathan, C. 2023. First report of South African flabellid coral *Truncatoflabellum zuluense* Cairns & Keller, 1993 (Scleractinia: Flabellidae) from Andaman and Nicobar Islands, India. *Indian Journal of Geo-Marine Sciences*, 52(7): 343-346.
9. Mondal, T. and Raghunathan, C. 2023. Pink spot: A serious threat to scleractinian corals (*Porites* spp.) in Andaman archipelago. *Indian Journal of Geo-Marine Sciences*, 52(7):339-342.
10. Pati, S.K., Bajantri, P.P. and Hegde, G.D. 2024. The "Mr. and Mrs. Ghat crab", *Ghatiana dvirupa* sp. nov. (Decapoda: Brachyura: Gecarcinucidae) from the Central Western Ghats of India. *Zootaxa*, 5443 (1): 116-126. <https://doi.org/10.11646/zootaxa.5443.1.6>

11. Rajendra, S. and Raghunathan, C. 2024. New records of soft corals, genus *Sarcophyton* (Octocorallia: Malacalcyonacea: Sarcophytidae) from the Andaman and Nicobar Islands, India. *Biodiversity*. <https://doi.org/10.1080/14888386.2024.2333302>.
12. Shankar, S., Kumar, D. and Jaiswal, D. 2024. Molecular Characterization of Rare Predaceous Aquatic Beetle *Methles indicus* Regimbart, 1899 (Coleoptera: Dytiscidae) from Eastern Ghats, India. *Proceedings of the Zoological Society*, 10.1007/s12595-024-00523-7
13. Sharma, N. 2024. New record of a butterfly, common lascar, *Pantoporia hordonia* (Stoll, [1790]), (Lepidoptera: Nymphalidae) from Punjab, India. *Journal of Entomology & Zoological Studies*, 12(2): 111-114.
14. Singh, P., Sharma, I., Gurumayum, S. D. and Singh, L.K. 2024. First record of *Garra triangularis* from Rajasthan, India, *National Journal of Life Sciences*, 20(1&2): 43-44.
15. Sudhin, P.P., Jwala, R., Sen, S. and Hegde, V.D. 2024. Taxonomic notes on the genus *Epeus* Peckham & Peckham, 1886 (Araneae, Salticidae) from India. *Zoosystematics and Evolution*, 100(2): 447-455. DOI 10.3897/zse.100.118686.

BOOK CHAPTERS

1. Ali T., Hussain Z., Majeed A., Raina R. H. and Parey S. H. 2024 *Recent Advances in Entomological Research Toward Agriculture and Human Health for Insect Diversity and Ecosystem services* by Apple Academic Press (AAP) a group of CRC Press, Taylor & Francis. 2:197-214.
2. Hassan, M.E., Kushwaha, S. and Saha, P.C. 2024. Insecta: Hemiptera: Auchenorrhyncha. In: *Faunal Diversity of Dihang-Dibang Biosphere Reserve: Conservation Area Series*, 76: 109-120.
3. Raina, R.H., Kumar, K., Pathak, P., Jangid, T., Sharma, I. and Choudhary, P. 2024. *Role of Bumblebee in Pollination Ecology for Insect Diversity and Ecosystem services* by Apple Academic Press (AAP) a group of CRC Press, Taylor & Francis. 1:189-200.

4. Sharma, I., Choudhary, P. and Raina, R.H. 2024. *Importance of Taxonomy in Biological Research for Insect Diversity and Ecosystem services* by Apple Academic Press (AAP) a group of CRC Press, Taylor & Francis. 1:29-38.

POPULAR ARTICLE

1. कलावटे, अ. एस. 2024. गोबर भृंगों का आहार दुनिया को कैसे साफ़ 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 को आयोजित किया।

MEETINGS ATTENDED

1. Dr. Dhriti Banerjee, Scientist – G, Director, ZSI, 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; attended the Gate Reveal Ceremony of ZSI, Estuarine Biology Regional Centre (EBRC), Gopalpur-On-Sea on 3rd April 2024 and a Memorandum of Understanding (MoU) was signed with Berhampur University, Odisha on 3rd April 2024; 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. The 19th Research Advisory and Monitoring Committee (RAMC) meeting was held on 11th-12th April 2024 at Panchmarhi, Madhya Pradesh, where Director, ZSI, in her introductory remarks, 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, Ms. Nameeta Prasad, Joint Secretary, MoEFCC and all the

members of RAMC for their acceptance and active participation. On 15th April 2024, Director, ZSI addressed the inaugural session of the DST- SERB sponsored Karyashala (High - End Workshop) on Hands-On Training On Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring on 15th-23rd April 2024 and 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. On 22nd April 2024, Director, ZSI as the Chief Guest attended the National Conference (DST-SERB sponsored) on "Zoology for Ecosystem and Human Health" 22nd -23rd April 2024 organised by the Department of Zoology, University of Kalyani, West Bengal. On 26th April 2024, Director, ZSI had a meeting 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. ZSI Annual Progress Monitoring Meeting of Senior Officers of HQ and Regional Centres was conducted from 29th April to 1st May 2024 at ZSI, HQ, Kolkata under the Chairmanship of Dr. K. Venkataraman, Former Director, ZSI and the External Member Dr. Urmi Chatterji, Professor, Calcutta University through Hybrid Mode.

2. Dr. C. Raghunathan, Scientist-F, ZSI/HQ, Kolkata, attended the 19th meeting of RAMC for ZSI at Pachmarhi, Madhya Pradesh on 11th and 12th April 2024; served as a Member in the interview committee to recruit Post-Doctoral Fellow of ZSI on 26th April 2024; served as Member Secretary in the Scientific Committee for Annual Meeting of Senior Officers of Headquarters and Regional Centre to review the progress from March 2023 – April 2024 held on 29th April to 1st May 2024 at ZSI, Kolkata; provided comments of ZSI for Sanitary

Protocol for Import of Specific Pathogen Free (SPF) Polychaete Worms to India has provided to Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying, Government of India; provided key performance indicators of ZSI for the Key Performance Indicators, progress, any bottlenecks and future plans of Ministry of Environment, Forest and Climate Change required for the meeting at PMO has been submitted to the Ministry on 5th April 2024; provided the inputs of ZSI for the draft MoU to be reached between CSIR-IHBT and Empowering Farmers Foundation, Tanzania and submitted to MoEFCC on 19th April 2024; provided comments for the Chapter 7: Climate Change and Environment: Preparing to face the future prepared for Economic Survey 2023-24 by Department of Economic Affairs, Ministry of Finance, Government of India has been submitted to MoEFCC on 21st April 2024.

3. Dr. G. Maheswaran, Scientist-F, ZSI/HQ, Kolkata, provided his expert comments for the identification of photos of confiscated live birds.
4. Dr. A.S. Kalawate, Scientist-E, ZSI/WRC, Pune, attended Essig Brunch Seminar on "Unravelling the evolutionary origins of anti-bat sonar jamming in tiger moths (Lepidoptera: Erebiidae: Arctiinae)" on 26th April 2024 by Nicolas Dowdy, Director of Collections Informatics & Head of Zoology at the Milwaukee Public Museum and participated in the two-day National Joint Official Language Scientific Seminar-2024 Official Language Hindi Seminar organized at ARI, Pune and presented a paper "How is the diet of dung beetles keeping the world clean?"
5. Dr. Anil Kumar, Scientist-E, ZSI/GPRC, Patna, attended the Meeting of the 'Standing Consultative Committee' organised by HoFF, Jharkhand Forest Department on 26th April 2024.

6. Dr. C. Sivaperuman, Scientist-E, ZSI/ANRC, Port Blair, attended meeting with Shri. Keshav Chandra, IAS, Chief Secretary, A & N Islands in connection with the preparation of Bird watching policy of A & N Islands on 1st & 2nd April 2024 at Secretariat, Port Blair; served as expert member for birding in South Andaman with Shri. Keshav Chandra, IAS, Chief Secretary, & Shri. Devesh Chandra Srivastava, IPS, Director General of Police, A & N Islands on 7th April 2024; organised and coordinated the 19th Research Advisory and Monitoring Committee meeting during 11th – 12th April 2024 at Pachmarhi, Madhya Pradesh; attended meeting with Dr. T.S. Ashok Kumar, IFS, Principal Chief Conservator of Forests, Department of Environment and Forests, A & N islands on 22nd & 25th April 2024 in connection with the assessment of Carrying Capacity of Cinque Island, South Andaman for opening of one day tourism; attended meeting under the Chairmanship of Hon'ble Lt. Governor, and Vice Chairman, Island Development Agency on 25th April 2024 at Raj Niwas in connection with the unique formation of Scuba Diver of A & N Islands; served as Chief Guest to inaugurate the Innovation Centre at IGNOU Regional Centre, Port Blair on 26th April 2024; served as an examiner for the pre-submission of Ph.D. Thesis titled "Biodiversity and Foraging ecology of seabirds of Laksha dweep and Kerala coast, India", Department of Zoology, Kerala University on 20th April 2024.
7. Dr. Deepa Jaiswal, Scientist - E and Dr. Karuthapandi, Scientist - D, ZSI/FBRC, Hyderabad, attended Andhra Pradesh Biodiversity Board meeting on 10th April 2024 at Guntur, AP.
8. Dr. Gaurav Sharma, Scientist-E, ZSI/NRC, Dehradun, attended on invitation the event of "IFS Trainees Convocation-2024 of Indira Gandhi National Forest Academy (IGNFA), Dehradun" at Convocation hall of FRI, Dehradun on 24th April 2024; 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 26th April 2024.
9. Dr. S. D. Paunikar, Scientist-D, ZSI/CZRC, Jabalpur, attended duty of External Examiner for M. Sc. student (Pondicherry University) ICMR-National institute of Research in Tribal Health, Jabalpur on 6th and 8th April 2024.
10. Dr. S.S. Tamale, Scientist-C, ZSI/WRC, Pune, participated in the National Joint Official Language Scientific Seminar-2024, Seminar on Role of Science for Sustainable Future organized by MACS-Agharkar Research Institute on 3rd and 4th April 2024 and presented a talk on "Role of Owls in Identification and Conservation of Animal Species from Protected Areas"; attended online meeting related to 'IUCN Red listing' on 26th March 2024 under the chairpersonship of Ms. Nameeta Prasad, Joint Secretary, MoEFCC, New Delhi organized by the Director, ZSI, Kolkata.
11. Dr. Sandeep Kushwaha, Scientist-C, ZSI/CZRC, Jabalpur, attended International Conference on Environment and Agriculture: New Technological Applications on 30th and 31st March 2024 organized by society of biological sciences.
12. Dr. Souvik Sen, Scientist-D, ZSI/HQ, Kolkata attended 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.
13. Dr. Tamal Mondal, Scientist-D, ZSI/HQ, Kolkata, attended the 19th meeting of RAMC for ZSI at Pachmarhi, Madhya Pradesh on 11th and 12th April 2024; provided necessary comments on NC_Exotic_Agenda_Proposal by RO, AQCS, Chennai for revision of Sanitary Protocol for Import of Specific Pathogen Free (SPF) Polychaete Worms into India as required by Department of Fisheries, Ministry of Fisheries, Animal Husbandry and Dairying through ZSI on request; provided necessary comments on supply of data for Updation of publication—"EnviStats-India-2024 as required by Environment

- Statistics Social Statistics Division, Ministry of Statistics & PI through ZSI on request; organized DST-SERB Karyashala: High End Workshop on Hands on Training on Corals and Coral Associated Faunal Communities: Taxonomy and Monitoring was organized by Mollusca Section, ZSI/HQ, Kolkata from 15th to 23rd April 2024 where a total of 25 Post Graduate students and Ph.D. Scholars from 25 institutes of India covering 18 states and UTs participated in this workshop.
14. Dr. U. Saikia, Scientist - D, ZSI/NERC, Shillong, attended the Regional Inter-agency coordination meeting on Illegal Wildlife Trade organized by the WCCB at Guwahati on the 5th April 2024.
 15. Shri. Manish Chandra Patel, Asstt. Zoologist, ZSI/GPRC, Patna, attended reconciliation of accounts of ZSI, GPRC, Patna for the financial year 2023-24 on 8th to 11th April 2024 at Pay and accounts office(B/Z), Kolkata; attended the Election Duty training (First Shift) at Raghunath Girls High School, Patna on 24th April 2024.
 16. Smt. Ilona J. Kharkongor, Scientist-E, ZSI/APRC, Itanagar, attended to the Reconciliation of Accounts for FY 2023-24 at PAO, Kolkata, w.e.f. 18th – 20th April 2024.

TRAININGS ORGANIZED

1. A DST-SERB Karyashala: High End Workshop on Hands on Training on Corals and Coral Associated Faunal Communities: Taxonomy and Monitoring was organized by Mollusca Section, ZSI/HQ, Kolkata from 15th to 23rd April 2024. A total of 25 Post Graduate students and Ph.D. Scholars from 25 institutes of India covering 18 states and UTs participated in this workshop.

TRAININGS ATTENDED

1. Dr. Anil Kumar, Scientist-E and Dr. M. E. Hassan, Scientist-E, ZSI/GPRC, Patna, attended training for the forthcoming General Election duty on 25.04.2024 at Patna High School, Gardanibagh, Patna.

2. Dr. Aparna S. Kalavate, Scientist-E, Dr. S.S. Talmale, Scientist-C, Shri Kishan Kumar, Lower Division Clerk, and Shri Nitin Chauhan, Lower Division Clerk, ZSI/WRC, Pune participated in the Hindi workshop on Memorized Translation Software - Information and Practical Training for the member offices of Narakas-2 on 23rd April 2024.
3. Dr. K. P. Dinesh, Scientist-E, and Dr. S.S. Talmale, Scientist-C ZSI/WRC, Pune attended two-day workshop on "Freshwater Biodiversity" at the Agharkar Research Institute, Pune, from 14th to 15th March 2024 and delivered a talks on "Amphibian Diversity in India" and "Odonata (Dragonflies & Damselflies) Diversity in India" respectively.
4. Dr. P. Girish Kumar, Scientist-D, Shri. Sreejith S. Kumar, Assistant Zoologist, Shri. Amal S. Senior Zoological Assistant, Shri. Sakthi P.P., LDC ZSI/WGRC, Kozhikode, attended election rehearsal classes and performed election duty on 25-26 April 2024 at different constituencies in Kozhikode and vatakara.
5. Mrs. Suparna Sadhukhan, Sr. Zool. Asst., ZSI/SbRC, Canning, participated in DST-SERB Karyashala: High End Workshop on Hands on Training on Corals and Coral Associated Faunal Communities: Taxonomy and Monitoring at ZSI, Kolkata from 15th to 23rd April 2024.
6. Scientists and staff of WRC, Pune attended training programme on Hands on Election training on 6th April 2024 at Prof. Ramkrishna More Prekshagraha, Chinchwad, Pune.

LECTURES DELIVERED

1. Dr. C. Raghunathan, Scientist-F, ZSI/HQ, Kolkata, delivered a lecture on coral reefs on the inaugural session of High End Karyashala, Hands on Training on Coral and Coral associated faunal communities: Taxonomy and Monitoring held on 15th April 2024 at ZSI Headquarters, Kolkata; delivered a lecture on 'Coastal and Marine Biodiversity

- in India' in the High End Karyashala, Hands on Training on Coral and Coral associated faunal communities: Taxonomy and Monitoring on 18th April 2024 at ZSI Headquarters, Kolkata.
2. Dr. Anil Kumar, Scientist-E, ZSI/GPRC, Patna, delivered an informative talk 'A journey to the Antarctica' with regard to International Earth Day 2024 on 22nd April 2024.
 3. Dr. Aparna S. Kalawate, Scientist-E, ZSI/WRC, Pune, delivered lecture on Correspondence and Notes in Daily Official Work at CPCB.
 4. Dr. Gaurav Sharma, Scientist-E, 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 1st April 2024; 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 4th April 2024; 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 8th April 2024.
 5. Dr. J. S. Yogesh Kumar, Scientist – E, ZSI/SbRC, Canning, delivered a lecture entitled "Taxonomy of Ocotocorals" in Hands-On Training on Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring at ZSI, Kolkata on 18th April 2024.
 6. Dr. Kamal Saini, Scientist-B, ZSI/HARC, Solan, 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 on 9th April 2024.

7. Dr. M. E. Hassan, Scientist-E, ZSI/GPRC, Patna, delivered an orientation lecture on "Microplastic and Living Organism" with regard to the International Earth Day, 2024 and on "Methods in Faunal Collection, Preservation and identification: Freshwater Fishes" on 4th April 2024 to Post Graduate students of B. S. College, Patliputra University.
8. Dr. P. C. Pathania, Scientist-E, ZSI/HARC, Solan, delivered invited talk & provided 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 on dated 5th April 2024.
9. Dr. Sandeep Kushwaha, Scientist-C, ZSI/CZRC, Jabalpur, 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 9th April 2024.
10. Dr. Sanjay Paunekar, Scientist-E, ZSI/CZRC, Jabalpur, 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 1st April 2024.
11. Dr. Tamal Mondal, Scientist-D, ZSI/HQ, Kolkata, delivered a lecture on Coral Reefs of India- Structure and Function; Importance of Taxonomy; Taxonomy and Monitoring; 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 from 15th to 23rd April 2024.
12. Dr. V. M. Sathish Kumar, Scientist – C, ZSI/GPRC, Patna, delivered a talk on 'Cybertaxonomy, Biocorder and Biodiversity documentation in India' with regard to Post Graduate internship training, at ZSI, GPRC, Patna on 02-04-2024 and a talk on 'Everyday Earth Day- Give Earth a Chance' with regard to World Earth Day 2024, at ZSI, GPRC, Patna on 22nd April 2024.

13. Sh. Bhaskar Saikia, Asstt. Zool., ZSI/NERC, Shillong, delivered a presentation on "Natural History Science" for the visiting undergrad students of Thomas Jones Synod College, Jowai, Meghalaya on 24th April 2024.
14. Shri. Manish Chandra Patel, Assistant Zoologist, ZSI/GPRC, Patna, delivered a lecture with regard to an in-house seminar on International Water Day on 22nd March 2024.
15. Shri. Sreejith S. Kumar, Assistant Zoologist, ZSI/WGRC, Kozhikode, has delivered one lecture on Freshwater Biology to selected

- high school students from Kozhikode district during the Vagbhadananda Edu Project Summer Camp at Sargaalaya Craft Village, Iringal, Kozhikode on 2nd April 2024.
16. Smt. Pallabi Priyadarsini, Assistant Zoologist, ZSI/CZRC, Jabalpur, delivered a lecture on "Freshwater Molluscs of Central India" and "Collection and Preservation techniques of Insects" to M.Sc. Students from Home Science College, Jabalpur as a part of internship on 1st to 4th April 2024.

PHOTO GALLERY



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epaper.navabharat.news

भाकृअनुप-सीफा ने वार्षिक दिवस समारोह के साथ मनाया

नवभारत ब्यूरो। भुवनेश्वर।

भाकृअनुप-केंद्रीय मीठाजल जीवपालन अनुसंधान संस्थान, भुवनेश्वर, ओडिशा ने दिनांक 01 अप्रैल 2024 को अपने कौशलयागंगा परिसर, भुवनेश्वर में अपना 37वां वार्षिक दिवस समारोह मनाया। देश में मीठाजल कृषि पर प्रमुख अनुसंधान संस्थान ने भारतीय कृषि अनुसंधान परिषद (आईसीएआर) के तहत वर्ष 1987 में इसी दिन एक संस्थान के रूप में अपनी यात्रा शुरू की थी। डॉ. धृति बनर्जी, निदेशक जलजलिकल सर्वे ऑफ इंडिया, कोलकाता इस अवसर पर मुख्य अतिथि के रूप में उपस्थित रहें। डॉ. अमरेश कुमार नायक, निदेशक, भाकृअनुप राष्ट्रीय चावल अनुसंधान संस्थान, कटक और डॉ. देबाशोष दास, निदेशक, जीव विज्ञान संस्थान, भुवनेश्वर भी सम्मानित अतिथि के रूप में उपस्थित थे।

डॉ. धृति बनर्जी, निदेशक जलजलिकल सर्वे ऑफ इंडिया, कोलकाता ने टीम सीफा को उसके 37 वें जन्मदिन पर बधाई दी।



उन्होंने प्रकृति मां की रक्षा करने का आह्वान किया। हमारे जैसे कृषि प्रधान देश के लिए प्राकृतिक संसाधनों का संरक्षण बहुत महत्वपूर्ण है। प्रकृति रक्षित रहित जिसका अर्थ है कि प्रकृति रक्षा करती है यदि वह संरक्षित है। उन्होंने कहा कि भारतीय प्राणी सर्वेक्षण द्वारा प्रतिवर्ष लगभग 300 नई पशु प्रजातियों की पहचान की जाती है। हाल ही में पश्चिम बंगाल के दीघा से जलजलिकल सर्वे ऑफ इंडिया द्वारा एक नई मछली प्रजाति की खोज की गई है। उन्होंने बताया कि सहयोगात्मक अनुसंधान के लिए

भाकृअनुप-सीफा के साथ जलजलिकल सर्वे ऑफ इंडिया एक समझौता ज्ञापन पर हस्ताक्षर करने पर अगला विचार व्यक्त किया।

भाकृअनुप-राष्ट्रीय चावल अनुसंधान संस्थान के निदेशक डॉ. अमरेश कुमार नायक ने मत्स्य विज्ञान के क्षेत्र में उत्कृष्ट उपलब्धियों के लिए संस्थान को बधाई दी। डॉ. नायक महिला सशक्तीकरण सहित समाज के वंचित वर्ग के विकास के लिए भाकृअनुप-सीफा की पहल से प्रभावित थे। उन्होंने गरीब लोगों की खाद्य और पोषण सुरक्षा को संबोधित करने के लिए

अधिक सहयोग का आह्वान किया। इंस्टीट्यूट ऑफ लाइफ साइंसेज, भुवनेश्वर के निदेशक डॉ. देबाशोष दास ने इस अवसर को शोभा बढ़ाई और सभा को संबोधित किया। उन्होंने जीव विज्ञान के विविध क्षेत्र में आईएलएस और आईसीएआर-सीआईएफए के बीच सहयोग पर जोर दिया। गणमान्य व्यक्तियों ने संस्थान के नए प्रकाशनों का विमोचन किया। इस अवसर पर वर्ष 2023 के लिए एस सुशीलम्मा, डॉ. गिरीश चंद्र चौधरी, डॉ. टी रामप्रभु और डॉ. वीआर मोहंती के नाम पर स्थापित चार स्मारक पुरस्कारों के विजेता को भी सम्मानित किया गया।

भाकृअनुप-सीफा, आईसीएआर - सीटीसीआरआई, आईसीएआर-एनआरआरआई, ओयुएटी, एनएफडीबी और आईसीएआर-सीफा के सेवानिवृत्त कर्मचारियों ने समारोह में भी अपनी भागीदारी दर्ज कराई। इस अवसर पर डॉ. जितेंद्र कुमार सुंदराय, प्रधान वैज्ञानिक एवं प्रभाग अध्यक्ष एफजीबीडी, भाकृअनुप-सीफा ने धन्यवाद प्रस्ताव दिया।

Nature protects if she is protected: Dr Dhriti Banerjee

ICAR-CIFA Annual Day celebrations

STATESMAN NEWS SERVICE
BHUBANESWAR, 1 APRIL:

The ICAR-Central Institute of Freshwater Aquaculture, Bhubaneswar, Odisha celebrated its "37th Annual Day" at its Kausalyaganga Campus, on Monday.

Dr (Mrs) Dhriti Banerjee, Director Zoological Survey of India, Kolkata was the chief guest while Dr Amaresh Kumar Nayak, Director, ICAR-National Rice Research Institute, Cuttack and Dr Debasis Dash, Director, Institute of Life Sciences, Bhubaneswar were also present.

Dr (Mrs) Dhriti Banerjee, said for an agrarian country like ours conservation of nat-

ural resources is very crucial. "Prakruti Rakshate Rakshita" which means nature protects if she is protected. She said that around 300 new animal species are identified annually by Zoological Survey of India.

A new fish species has been discovered recently by ZSI from Digha, West Bengal. She informed that ZSI will be inking a MoU with ICAR-CIFA for collaborative research.

The Director of ICAR-National Rice Research Institute Dr. Amaresh Kumar Nayak called for greater collaboration for addressing food and nutritional security of the poor people. Dr Debasis Dash, Director, Institute of Life Sci-

ences, Bhubaneswar spoke on collaboration between ILS and ICAR-CIFA in the diverse field of life sciences.

Dr. P. K. Sahoo Director, ICAR-CIFA highlighted the Institute's achievements such as successful breeding of *Clarias dussumieri* (Catfish); standardized CRISPER-cas9 based gene editing technology to develop perforin gene knockout F0 line of Rohu and F1 generation of zebra fish for *A. hydrophila* susceptibility.

The institute commercialized three technologies (Aeronom as hydrophila attenuated vaccine; disease resistant rohu (Ahr-Jayanti) and Improved catla); devel-

oped an IoT based smart automatic fish feeder (three variants) for fish pond, RAS and ornamental fish tank systems; Matsya Setu app strengthened with regional languages; developed a web portal (in English and 11 regional languages) to make the public aware of the health benefits of fish and Rangeen machhli app.

The institute has got ICAR certification for 12 technologies/products/methodologies and has signed 13 MoUs with various organizations for collaborative research, training and technology transfer and acquired 3 patents, informed Dr Sahoo.

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<https://epaper.thestatesman.com/c/74842563>



Dr. Dhriti Banerjee, Director, ZSI 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, Bhubaneswar, Odisha. On this occasion, 9 publications of ICAR-CIFA were released by the Director and the winners of four memorial awards for the year of 2023 and retired employees of ICAR-CIFA and other renowned institutes were also honoured.



A Memorandum of Understanding (MoU) was inked between ZSI, Kolkata and ICAR-CIFA, Bhubaneswar for collaborative research.



Director, ZSI attended a Gate Reveal Ceremony of ZSI, Estuarine Biology Regional Centre (EBRC), Gopalpur-On-Sea on 3rd April 2024.



A MoU was signed and exchanged between Dr. Dhriti Banerjee, Director, Zoological Survey of India and Prof. Geetanjali Das, Vice Chancellor, Berhampur University on 3rd April 2024 focusing on collaboration in academic, research and other knowledge-building programmes.



The 19th Research Advisory and Monitoring Committee (RAMC) meeting was held on 11th-12th April 2024 at Panchmarhi, Madhya Pradesh. Dr. Dhriti Banerjee, Director, ZSI, in her introductory remarks, 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, Ms. Nameeta Prasad, Joint Secretary, MoEFCC and all the members of RAMC for their acceptance and active participation.





On 15th April, 2024, Director, ZSI addressed the inaugural session of the DST- SERB sponsored Karyashala (High - End Workshop) on Hands-On Training On Corals and Coral Associated Faunal Communities: Taxonomy & Monitoring on 15th-23rd April, 2024 and 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.



On 22nd April, 2024, Director, ZSI as the Chief Guest attended the National Conference (DST-SERB sponsored) on "Zoology for Ecosystem and Human Health" 22-23 April 2024 organised by the Department of Zoology, University of Kalyani, West Bengal. Theme of the conference is Zoological Research for Ecosystem Restoration and better human health.



On 26th April, 2024, Director, ZSI had a meeting 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.



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 under the Chairmanship of Dr. K. Venkataraman, Former Director, ZSI and the External Member Dr. Urmil Chatterji, Professor, Calcutta University through Hybrid Mode. ZSI-EIACP Newsletter (2023-24) was released during Annual Progress Meeting on 1st May 2024.