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निदेशक
A. A. Mao
Director



भारत सरकार
पर्यावरण वन एवं जलवायु परिवर्तन मंत्रालय
भारतीय वनस्पति सर्वेक्षण
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT, FOREST
& CLIMATE CHANGE
BOTANICAL SURVEY OF INDIA

DO. No.: BSI – 8/1/PA/2019 / 1999

Date: 30.09.2024

Madam,

In reply to OM no. 24011/08/2019–GC dated. 25.03.2019 regarding monthly DO letter from Secretary (MoEF&CC) to the Cabinet Secretary, I am furnishing herewith the following major achievements of Botanical Survey of India for the Month of **September, 2024**.

Department: Botanical Survey of India

1. Important policy decisions taken, Major achievements during the month:

Scientists of BSI described **two (02) plant taxa as new to science** viz. *Anthracoportus indohimalayanus* D. Chakr., Sudeshna Datta & K. Das. and *Boletus dhakuricus* K. Das, A. Ghosh & Sudeshna Datta from the states of Sikkim and Uttarakhand respectively. Besides Scientists of BSI have also reported **three (03) taxa as new record to India** viz. *Scleroderma yunnanense* Y. Wang and *Tricholoma olivaceum* Reschke, Popa, Zhu L. Yang et G. Kost, as two edible mushrooms new to India and *Anthracoportus* as a new generic record to India.

Scientists of BSI conducted **23 field / local tours** and one HCT and **collected 1025 field numbers**. BSI prepared **metadata of 4175** herbarium specimens. During this month, **1497635** visitors visited the official websites of BSI (**1199299** visitors referred official website, **161443** visitors referred archives, and **136893** visitors visited Indian Virtual Herbarium).

Important events / programs organized / attended:

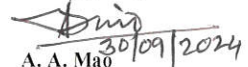
- Dr. A.A. Mao, Director, BSI; Dr. S.S. Dash, Scientist-F & In-charge, Tech. Sect., BSI-Kolkata; Dr. R. Gogoi, Scientist-F & H.o.O, SHRC, Gangtok; Dr. C.S. Purohit, Scientist D, AZRC Jodhpur and other officials from BSI delivered an invited talks in the *National Seminar on Biodiversity for sustainable future with special focus on plant taxonomy* from 27th -28th September, 2024, at the Department of Botany, Gauhati University, Assam.
- BSI, ISIM, Kolkata celebrated *World Coconut Day* on 2nd September, 2024 to foster a deeper appreciation for the Coconut Palm and its importance in our lives.
- BSI, NRC, Dehradun observed *Himalayan Day* on 6th September, 2024
- BSI and all its regional centres organized *Hindi Pakhwada / Hindi fortnight* throughout September. During this period, many events like essay competition, Dictation, speech competition, noting and drafting, recitation, quiz competition etc. were organized.
- A one day Training programme on *e-Office*, under Dr Anna Durai, IT Section MoEF& CC New Delhi on 12th September 2024 was organised in BSI- CNH, Howrah auditorium. All the concerned staff of Botanical Survey of India attended this training program.
- BSI and all its regional centres observed *World Ozone Day 2024* on 13th September, 2024 on the theme "*Montreal Protocol: Advancing Climate Action.*" On this occasion Sit & Draw competition and mass awareness program on 'recovery strategy of Ozone layer thinning' and were organized by various centres of BSI.
- BSI, ISIM, Kolkata celebrated 'Zero Emission Day' on 21.09.2024.
- BSI, WRC, Pune organised a Plantation program "*Ek Ped Ma Ke Naam*" on 23rd September 2024. On this occasion, 50 endemic and threatened plants were introduced in Mundhwa Botanical Garden of BSI,WRC, Pune.
- BSI and all its regional centres taken the *Swachhata Pledge* at their respective offices under the Chairmanship of the Dr. A. A. Mao, Director, BSI. On this occasion, he urged everyone to incorporate cleanliness into daily routines on office and also at home. During the *Swachhata Hi Seva* campaign 2024, various awareness program, mass cleanliness drive, mass plantation drive, health check up camp, sit and draw competition etc. organised
- Dr Lal Ji Singh, Scientist-F & Head, Andaman, and Nicobar Regional Centre, Port Blair attended as a guest of honour to observe *International Coastal Clean-up Day*, organized by the Atal Centre for Ocean Science and Technology for Islands, National Institute of Ocean Technology (NIOT) at Rangachang Beach, South Andaman. This event is a part of the *Swachh Sagar Surakshit Sagar Campaign*, aligning with the Ministry of Earth Sciences (MoES) initiative to conduct a nationwide coastal cleanup campaign across 30 beaches in the Indian Coastal States and Union Territories.

During this month **19** research papers and **01** pamphlet published got published by BSI scientists in International and National publications apart from participating in scientific lectures and publishing seminar abstracts. (**Annexure 1**).

2. **Important policy matter held up on account of prolonged inter-ministerial consultations: NIL**
3. **No. of cases of 'Sanction for prosecution' pending for more than 3 months: NIL**
4. **Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the government: NIL**
5. **Status of Rationalization of Autonomous Bodies:-NA-**
6. **Information on the specific steps taken for utilization of the space technology based tools and applications in governance and development: NIL**
7. **Vacancy position of senior level appointments in the Ministry/ Department, including Autonomous Bodies/ PSUs: Communicated to the Ministry separately.**
8. **List of cases in which ACC directions have not been complied with: NIL**

With regards,

Sincerely yours,


A. A. Mao
Director, BSI

To,
Ms. Nameeta Prasad, JS, (CS-II), MoEF&CC, New Delhi – 3



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Publications for the Month of September 2024

1. ALI, S. N., S. KUMAR, AND D. SINGH, 2024. Taxonomic studies on Indian *Balantinosidaceae* (Marchantiophyta: Jungermanniales). *Indian Forester*. 150(8):105-110.
2. BERA, S. AND K. KARTHIGEYAN, 2024. Typification of names applying to *Miliusa velutina* (Annonaceae). *Annales Botanici Fennici* 61: 239–243. <https://doi.org/10.5735/085.061.0133>
3. BHAUMIK, M. AND G. KRISHNA 2024. Contribution to the Flora of Dihang Dibang Biosphere Reserve, India-I. *Taiwania* 69(3): 412 - 419. DOI: 10.6165/tai.2024.69.412
4. DATTA S, D. CHAKRABORTY, A. BOSE, A. GHOSH AND K. DAS 2024. Broadening the horizon of Indian mycobiota: two new species and one new generic record in Boletoid mushrooms (Boletaceae). *Nordic Journal of Botany*. doi: 10.1111/njb.04490
5. HARIKRISHNA, P., RAMESH KUMAR AND S.L. MEENA. 2024. Tree stand structure and species diversity in dry deciduous forest of Bassi Wildlife Sanctuary, Chittorgarh, Rajasthan, India. *Journal of Economic and Taxonomic Botany*. 48 (2): 61-68
6. K. DEVANANDA, C. SUDHAKAR REDDY AND RAVI KIRANARIGEL. 2024. A Tracking five decades (1972-2024) spatio temporal dynamics and hotspots of *Prosopis juliflora* in Keoladeo national park, a World Heritage Site.
7. KUMAR, PUNEET., POULAMI GHOSH, PURUSHOTTAM KUMAR DEROLIYA AND SUSHIL KUMAR SINGH. 2024. *Hypoestes phyllostachya* Baker: a new record of Invasive Alien Plant Species from Uttarakhand, India. *Natl. Acad. Sci. Lett.* <https://doi.org/10.1007/s40009-024-01466-5>.
8. PANWAR, G. S. AND BHAVANA JOSHI. 2024. In vitro propagation and clonal fidelity assessment of *Rhynchostylis retusa* (L.) Blume: a threatened ornamental and medicinal orchid. *Vegetos*. <https://doi.org/10.1007/s42535-024-00831-5>
9. KUMAR, S., D. SINGH, AND T. SAHA, 2024. New National and regional records, 76. *Journal of Bryology*. 46(1):51-74. <https://doi.org/10.1080/03736687.2024.2350763>
10. PARIHAR, A., HEMBROM M.E., ANTONÍN, V. AND DAS, K. 2024. Combined study of morphology and molecular phylogeny unveils the first report of the mushroom genus *Singerocybe* (*Tricholomataceae*) from India. *KAVAKA* 60(2): 17-23.
11. SHUKLA, A. N. AND NITISHA SRIVASTAVA. 'Floristic diversity of Chandra Prabha Wildlife Sanctuary, Uttar Pradesh, Botanical Survey of India, Kolkata, pp 1-179, ISBN: 819706478-4, 2024
12. SINGH R.K. AND V.K. RAWAT 2024. *Phlegmariurus rojas-alvaradoi*, a replacement name for *P. nanus* A. Rojas & R. R. Calderón (Lycopodiaceae). *Journal of Biodiversity and Conservation* 8(4): 42–44.
13. SINGH R.K. AND S. KUMAR. 2024. Nomenclatural novelties in *Commelinaceae*. *Journal of Biodiversity and Conservation* 8(4): 12–25.
14. SINGH R.K. AND S. KUMAR. 2024. Nomenclatural novelties in *Anthurium* (Araceae). *Journal of Biodiversity and Conservation* 8(3): 66–79.
15. SINGH R.K. AND V.K. RAWAT. 2024. New combinations for eleven nothospecies in *Thelypteridaceae*. *Journal of Biodiversity and Conservation* 8(4): 26–41.

16. SINGH R.K. AND V.K. RAWAT. 2024. New combinations in *Polypodiaceae*. *Journal of Biodiversity and Conservation* 8(3): 80–88.
17. SINGH R.K., V.K. RAWAT AND S. KUMAR.2024. *Pterissodiroi*, a replacement name for *P. rigida*Sodirol (Pteridaceae). *Journal of Biodiversity and Conservation* 8(4): 45–48.
18. SINGH, D., M. PAUL, AND T. SAHA. 2024. Taxonomic studies of the genus *Mastigophora* in India. *Biological Forum*. 16(8): 296-303.
19. TUDU D., D. CHAKRABORTY AND A. GHOSH 2024. Morphology and molecular phylogeny of *Scleroderma yunnanense* and *Tricholoma olivaceum*, two edible mushrooms new to India. *Czech Mycology* 76(2): 111–124.