



Do. No. BSI-8/1/PA/2019/1251

Date: 07.07.2025

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 **June, 2025**.

Department: Botanical Survey of India

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

Scientists of BSI described **two (02) taxa as new to Science from India viz. *Pedicularis rajeshiana*** (Orobanchaceae), a new hemiparasitic species from Western Himalaya and *Portulaca bhara* (Portulacaceae), from Aravalli hills of Rajasthan. Besides, Scientists of BSI have reported **five (05) taxa** as new additions to India viz. *Auricularia sinodelicata* (Auriculariaceae): a new record for The Indian Mycobiota, *Leptochilus axillaris* from Northern Western Ghats, Maharashtra; *Hemipilia basifoliata* (Orchidaceae) to the orchid flora of India and *Nemalionopsis* Skuja- a generic addition to the freshwater red algal Flora from Arunachal Pradesh and *Carex fedia* (Cyperaceae) to the Flora of Bihar (Annexure I).

Scientists of BSI conducted **9 field / local tours** and collected **120 field nos.** of specimens. BSI prepared metadata of **2184** herbarium specimens. During this month, **6,98,407** visitors referred the official websites of BSI (**3,32,186** visitors referred official website, **2,49,068** visitors referred archives, and **1,17,153** visitors visited Indian Virtual Herbarium). Besides, **399** students / visitors visited the gardens and herbaria of BSI, and generated the revenue of about **Rs. 1,56,082** during this month.

Important events / programs organized / attended:

1. Botanical Survey of India (BSI) and all its regional centres observed **International Day of Yoga 2025** on 21st June 2025. On this occasion, *Harit Yoga session* was organised with the inspiring message of the Hon'ble Prime Minister of India, Shri Narendra Modi ji, aligning with this year's Yoga Day theme - "Yoga for One Earth, One Health."
2. Botanical Survey of India (BSI) and all its regional centres observed **World Environment Day 2025** on 5th June 2025, with the theme "*Beat Plastic Pollution*". On this occasion, various awareness programme such as *Sit & Draw competition*, *Mass Awareness Rally*, *Plantation Program*, free distribution of fruiting plant's saplings etc. were organized.
3. Botanical Survey of India, ISIM, Kolkata organised a 5-days open to all exhibition on the occasion of '**International Archive Day 2025**' on 9th June, 2025, showing the 'Fabrics dyed with Natural dye by Sir Thomas Wardle' collection. Altogether, about 270 visitors from various states visited the exhibition.
4. Shri Bhupender Yadav, the Hon'ble Minister, Environment, Forest & Climate Change, unveiled the 18th edition of BSI publication on **Plant Discoveries 2024**, during the grand celebration of the 110th Foundation Day of the Zoological Survey of India in Kolkata on 30th June, 2025. This includes 245 plat taxa as new to Science, 188 taxa as new records for India, enriching altogether 433 taxa to Indian Flora. Further, BSI also signed an MoU with IUCN (country office India), and Wildlife Trust of India (WTI), New Delhi, for promoting collaborative research on national red listing of Indian Flora.

During this month **30 publications** including **29 research papers and One book** were 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,

(Pratibha Gupta)
Director (I/C)

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

Publications for the Month of June, 2025**Research Publications: 30****RESEARCH PAPERS: 29**

1. BHATTACHARYYA, S., H. SINGH, P. KUMAR, P. K. DEROLIYA AND S. K. SINGH. 2025. Achene morphology of *Catamixis baccharoides*, *Ainsliaea aptera* and *Leucomeris spectabilis*. *Vegetos* <https://doi.org/10.1007/s42535-025-01319-6>
2. CHAKRABARTY, T., A. KUMAR AND P.P. GHOSHAL. 2025. A new combination in Indian *Litsea* Lam. (Lauraceae). *Trends in Current Biology*. 3(2): 19–21.
3. GARG, A. 2025. *Pedicularis rajeshiana* (Orobanchaceae), a new hemiparasitic species from Western Himalaya, India. *Phytotaxa* 702 (2): 149–165.
4. GARG, A. AND TRIPATHI, S. 2025. Pollen morphometric analogue in *Adansonia digitata* L. from India: implications for taxonomy, systematics and evolution. *Grana*. 64(I) 13.
5. MAHESH, Y., R. KOTTAIMUTHU AND N. ODYUO. 2025. Rediscovery of *Strobilanthes khasyana* (Acanthaceae): A little-known endemic species of North East India. *Plant Archives* 25(1): 2724-2726.
6. MEGHA, B., KUMAR, S., MUFEEDA, K.T., MAHADEVAKUMAR, S., AND SINGH, R. 2025 Resolving the identity of the phytopathogen causing severe leaf spots and blights on *Cinnamomum verum* in Kerala, India using a polyphasic approach. *Plant Pathology and Quarantine*. 15(1): 49–57.
7. PARIHAR, A. 2025. *Auricularia sinodelicata* (Auriculariaceae) Y.C. Dai & F. Wu, A New Record For The Indian Mycobiota. *J. Plant Development Sciences* Vol. 17(4): 157-160.
8. RAWAT V.K., P.K. DEROLIYA AND P.L. UNIYAL 2025 The genus *Pyrrosia* Mirb. (Polypodiaceae) in India: Taxonomic account. *Indian Fern J.* 42(1): 153-172.
9. RITU K. JAIN, O.N. MAURYA AND C.S. PUROHIT 2025. A note on occurrence of *Phaulopsis dorsiflora* (Retz.) Sant. (Acanthaceae) from Chhattisgarh state, India. *J. on New Biological Reports*,13(1):15-18. ISSN:2319-1104,
10. SAMPADA KANK, RAJAT MONDAL, SAKSHI PANDEY, KAUSHIK SARKAR AND ASIR BENNIAMIN 2025. *Leptochilus axillaris* (Cav.) Kaulf: A new distributional record from Northern Western Ghats, Maharashtra, India. *International J. Biology Sciences*, 7(6): 86-87
11. SANKARARAO M. 2025. Ending plastic pollution. *Yojana Telugu* 53 (8): 56–59.
12. SHARMA, B. P., K. S. DOGRA, S. CHANDEL, K. AMBRISH, R. K. SINGH, B. MEENA AND S. KUMAR, 2025. Rediscovery of *Premnaherbacea* Roxb. from Himachal Pradesh, India after 90 years. *National Academy Science Letters*. <https://doi.org/10.1007/s40009-025-01684-5>.
13. SHIL, T. AND O.N. MAURYA 2025. A Review of Research on Wetlands and Macrophytes Diversity with Respect to World and India. *Biological Forum* 17(5): 71–89.
14. SHIL, T., A. MAJI AND O.N. MAURYA 2025. *Carex fedia* (Cyperaceae): An addition to the Flora of Bihar, India. *J. Economic and Taxonomic Botany* 49(1): 38–40.
15. SINGH R.K. 2025 New combinations in Cucurbitaceae. *J. Biodiversity and Conservation* 9(2): 137–152. <https://doi.org/10.5281/zenodo.15593359>.
16. SINGH R.K. 2025 New combinations in *Dicliptera* (Acanthaceae). *J. Biodiversity and Conservation* 9(2): 206–215. <https://doi.org/10.5281/zenodo.15670955>.
17. SINGH R.K. 2025 Nomenclatural novelties in Euphorbiaceae. *J. Biodiversity and Conservation* 9(2): 43–62. <https://doi.org/10.5281/zenodo.15331461>.
18. SINGH R.K. 2025 Nomenclatural novelties in Malvaceae. *J. Biodiversity and Conservation* 9(2): 121–130. <https://doi.org/10.5281/zenodo.15593272>.
19. SINGH R.K. AND KUMAR S. 2025 A new combination in *Caulokaempferia* (Zingiberaceae) of Myanmar. *J. Biodiversity and Conservation* 9(2):216–217. <https://doi.org/10.5281/zenodo.15670990>. 2025
20. SINGH R.K. AND S. KUMAR 2025 New combinations in *Hoya* (Apocynaceae, Asclepiadoideae, Marsdenieae). *J. Biodiversity and Conservation* 9(2):131–133. <https://doi.org/10.5281/zenodo.15593283>.

21. SINGH R.K. AND S. KUMAR. 2025 A new name for *Odontoglossum* × *luerorum* in the genus *Oncidium* (Orchidaceae). *J. Biodiversity and Conservation* 9(2): 78–79. <https://doi.org/10.5281/zenodo.15331528>.
22. SINGH R.K. AND S.KUMAR 2025 A new combination in *Xylosma* (Salicaceae). *J. Biodiversity and Conservation* 9(2):63–66. <https://doi.org/10.5281/zenodo.15331495>. 2025
23. SINGH R.K. AND V.K. RAWAT 2025 New combinations in Vietnamese Ferns. *J. Biodiversity and Conservation* 9(2): 67–75. <https://doi.org/10.5281/zenodo.15331502>.
24. SINGH R.K., R.K. ARIGELA AND S. KUMAR. 2025 New combination in *Ibatia* (Apocynaceae, Asclepiadoideae, Asclepiadeae). *J. Biodiversity and Conservation* 9(2): 134–136. <https://doi.org/10.5281/zenodo.15593311>.
25. SINGH R.K., V.K. RAWAT AND S. KUMAR. 2025 A new combination in *Diplazium* (Athyriaceae). *J. Biodiversity and Conservation* 9(2): 76–77. <https://doi.org/10.5281/zenodo.15331517>.
26. SRIVASTAVA, AMBER., NISHANT CHAUHAN, SUDHANSHU SEKHAR DASH AND SUSHIL KUMAR SINGH. 2025. *Portulaca bharat* (Portulacaceae), a new species from Aravalli hills of Rajasthan, India. *Phytotaxa* 705(2): 212–218.
27. TANAY SHIL AND ONKAR NATH MAURYA. 2025 A Review of Research on Wetlands and Macrophytes Diversity with Respect to World and India. *Biological Forum*, 17(5):71-89.
28. ULAGALANTHAPERUMAL, E.P. AND M. PALANISAMY 2025. Generic Addition to the Freshwater Red Algal Flora of India from Arunachal Pradesh. *AJOB*. 21(6): 92-107.
29. WALTER D., NITHANIYAL S., VIMAL P., ALAGUSUNDARAM P., RAMESH U. 2025. Molecular identification of suspected Ooty hybrid trout stock of South India. *Current Science*, 128(7).

Book: 1

1. BISWA, S., LAKSHMINARASIMHAN, P. AND LOKHO, A. 2025. *Flora of Koderma Wildlife Sanctuary, Jharkhand*. Botanical Survey of India, Kolkata. (E book)