



भारत सरकार  
GOVERNMENT OF INDIA  
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय  
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE



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Date: 01.02.2023

Madam,

In reply to OM no. 24011/08/2019 – GC dtd. 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 January, 2023.

Department: Botanical Survey of India

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

Scientists of BSI reported **two taxa as new to science** viz. *Impatiens tajoensis* (Balsaminaceae) and a fungal taxon *Thaxterogaster shoreae* (Cortinariaceae) from Arunachal Pradesh, India. Further, they have also reported **thirteen taxa as new records to various flora including** 7 taxa as new addition to Indian flora viz. *Neopestalotiopsis eucalypticola*, a fungus; and 6 algal taxa i.e. *Lagynion macrotrachelum*, *Lagynion reductum*, *Stokesella epipyxis*, *S. lepteca*, *Stylodinium phaseolus* and *Peroniella hyalotheceae*; 2 taxa as new addition to the Flora of Southern India i.e. *Pancratium verecundum* and *Eriochloa barbatus*; and *Ipomoea laxiflora*, *Adenosma indianum* and *Nicotiana plumbaginifolia* to the flora of Andhra Pradesh and *Heterostemma dalzellii* (Aclepiadoideae) to Telangana State.

In addition, BSI scientists conducted 7 field / local tours and 1 Herbarium Consultation Tour and collected around 260 field nos. of specimens. Towards digitization, BSI completed metadata of 9938 herbarium specimens. During the month, 253864 visitors visited the official websites of BSI. (146675 visitors referred BSI official website, 49091 visitors referred BSI archives, and 102288 visitors visited the Indian Virtual Herbarium).

**Important events / programmes organized / attended:**

- Under the **Mission LiFE** campaign of the Government of India, BSI and all its regional centres organized awareness programmes on various themes, in which more than 11,114 people were sensitized about the mission LiFE.
- BSI, ISIM, Kolkata organized two days International conference on “**Science, Humanism and making of Modern India: the role of E.K. Janaki Amma**” in hybrid mode on 9<sup>th</sup> & 10<sup>th</sup> January 2023 in collaboration with University of Sussex, UK. About 150 participants joined physically. In addition, a new section was introduced in the museum on “**Antarctic Research done by BSI Scientists**” displayed Antarctic information, Research articles a model of explorer, photographs and many others.
- Under the **DST-SERB funded scheme**, BSI organized “**SERB Vritika Research internship workshop w.e.f. 6<sup>th</sup> December 2022 to 3<sup>rd</sup> January 2023** at BSI-Central National Herbarium, Howrah under the supervision of Dr. S.S. Dash, Scientist E & Incharge, tech. Sect., HQ, Kolkata. **5 selected interns** were trained on various techniques of Plant Taxonomy, skills of plant identification, biodiversity conservation, herbarium methodology and Threat Assessment of plants by the Eminent Scientists and Professors.
- BSI, WRC, Pune participated in 108<sup>th</sup> Indian Science Congress from 3-7<sup>th</sup> January 2023 at Nagpur and Exhibited BSI Stall during the India Pride Expo 2023, which received more than 40,000 footfalls.
- BSI and its regional centres observed 74<sup>th</sup> Republic Day in grand manner. Dr. A. A. Mao, Director, unfurled the national flag at the AJC Bose Indian Botanic Garden (AJCIBG) Howrah in presence of all senior scientists and staff of the BSI. Before the event, T-shirts depicting the Mission LiFE (Lifestyle for Environment) were distributed to all outsourced garden workers by BSI.

**Important scientific publications:**

During this month 33 research publications have been published by BSI scientists in various International and National research journals (Annexure 1).

- Important policy matter held up on account of prolonged inter-ministerial consultations:** NIL
- No. of cases of ‘Sanction for prosecution’ pending for more than 3 months:** NIL
- Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the government:** NIL
- Status of ongoing Swachhta Abhiyaan (Progress under Special Campaign):** Under outreach activities, regular cleaning drives and public awareness campaigns are organized in BSI.
- Status of Rationalization of Autonomous Bodies:** NIL
- Information on the specific steps taken for utilization of the space technology based tools and applications in governance and development:** NIL
- Vacancy position of senior level appointments in the Ministry/ Department, including Autonomous Bodies/ PSUs:** Recently Ministry has advertised 4 posts of scientists (Sci. C 1 post; and Sci. E 2 posts and Sci. F 1 post) in BSI, which is under process.
- List of cases in which ACC directions have not been complied with:** NIL

With regards,

Sincerely yours,

C. Murugan  
Director (I/C)

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

List of Publications for January, 2023Research Papers published: 33

1. AGRAWALA, D.K., RIJUPALIKA ROY AND R. GOGOI 2021. Vertical farming of Orchids– an effective tool for value addition and conservation. *ENVIS Newsletter* 26(1):6-8,
2. ARIGELA R.K., R.K. SINGH AND CH.S. REDDY 2023. Morphological variability in *Cyanotis fasciculata* (Commelinaceae) in different habitats in India and lectotypification of its ten heterotypic synonyms. *Ann. Bot. Fennici* 60: 7–22.
3. CHAKABARTY, T., P. P. GHOSAL, A KUMAR AND V. K. RAWAT 2022. A revision of the Genus *Machilus* (Lauraceae) in the Indo-Burmese Region. *Plant Sciences*, 11 (12): 5633-5657.
4. CHAKABARTY, T., V. K. RAWAT, A. KUMAR AND P. P. GHOSAL 2022. Notes on the identity of *Persea haridasanii* (Lauraceae) with typification of *Machilus robusta*. *Phytotaxa* 571 (1) 099-102.
5. DUBEY R. AND AMIT D. PANDEY 2022. Aquatic Mycobiota of Sanjay Gandhi National Park, Maharashtra, India: *Taxonomy & Ecology*. *Mycologia Iranica* 9(1):21– 40, 2022. DOI: 10.22043/MI.2022.359302.1222.
6. DUBEY R. AND AMIT D. PANDEY 2023. Distribution of foliicolous fungi in diverse forest types of Maharashtra State of India. *Plant Pathology & Quarantine* 13(1): 11–30, Doi 10.5943/ppq/13/1/2.
7. DUBEY, R 2022. *Neopestalotiopsis eucalypticola* (Pestalotiopsidaceae, Ascomycota): A new record to Indian mycoflora *J. Mycopathol. Res.* 60(4) : 597-600, (ISSN 0971-3719) doi :10.57023/JMycR.60.4.2022.597.
8. DUBEY, R. 2022. *Nigrospora zimmermanii* Crous: an addition to Indian Mycoflora. *Indian Phytopathology* <https://doi.org/10.1007/s42360-022-00562-0>.
9. GHOSH, A., D. CHAKRABORTY, M.E. HEMBROM, A. VIZZINI AND K. DAS 2023. *Thaxterogaster shoreae*, a new species of *Thaxterogaster* subg. *Scauri* sect. *Purpurascens* from Sal Forest of India based on morphology and molecular phylogeny. *Taiwania* 68(1): 23–30, DOI: 10.6165/tai.2023.68.23
10. HALDER, A.K., J. GHOSH, W. ARISDASON AND D. MAITY 2022. A review on the typification of names in *Gentiana* L. (Gentianaceae): Part II *Pleione* 16(3): 337–343.
11. HALDER, A.K., J. GHOSH, W. ARISDASON AND D. MAITY 2022. A review on the typification of names in *Gentiana* L. (Gentianaceae): Part I *J. Bot. Soc. Bengal* 76(2): 78–83.
12. JALANDER, V., J. SWAMY AND D. SRINIVAS 2022. *Eriochloa barbatus* (Poaceae: Paniceae): An addition to the Flora of Southern India. *Int. J. Curr. Res. Biosci. Plant Biol.* 9(7): 8-11. doi: <https://doi.org/10.20546/ijcrbp.2022.907.002>
13. KING, A.F.J., G. GNANASEKARAN AND W. ARISDASON 2022. Taxonomic Notes on Two Stenoendemic *Lepidagathis* Willd. (Barleriae: Acanthaceae) Species from Tamil Nadu, India *Nelumbo* 64(2): 168–176.
14. KRISHNA, G., A. BHATTACHARJEE AND S. BANDYOPADHYAY 2022. Elucidating the use of the term homonym in plant taxonomy. *Harvest* 7(2): 43–44.



15. KRISHNA, G., A. BHATTACHARJEE AND S. BANDYOPADHYAY 2022. Homonymy: Legitimacy vs. Illegitimacy. *Harvard Pap. Bot.* 27(2): 157–159.
16. KUMAR, P., H. SINGH AND S. K. SINGH 2022. IAPT chromosome data 37/3. In: MARHOLD, K. & KUČERA, J. (eds.) & al., IAPT chromosome data 37. *Taxon* 71(6): 1349-1352.
17. KUMAR, P., P.K. DEROLIYA, H. SINGH, AND S.K. SINGH 2023. Family Asteraceae in Sechu Tuan Nalla Wildlife sanctuary, Himachal Pradesh, India. *J. Non-Timber Forest Products* 29(2): 70-79.
18. LAHIRI, S. AND S. S. DASH 2022. An ethnobotanical survey of useful wild plants in Dzongri-Goecha La, Sikkim, India. *Nelumbo*. 64 (2): 327-340
19. MAHESH, Y., L. RASINGAM AND M.V. RAMANA 2022. Three New Distributional Records to the Flora of Andhra Pradesh, India. *Indian Forester* 148 (12): 1170-1171.
20. MURUGAN, P., R. KOTTAIMUTHU AND C. MURUGAN 2022. Nomenclature and Typification of thirty-five names in Rubiaceae of Southern Western Ghats, India. *Gard. Bull. Singapore* 74(2): 257–274.
21. NAIK, M. C., K. CHANDRAMOHAN, M. V. PRIYA, L.J. SINGH AND N. U. BEGUM 2022. Occurrence of *Vernonia revoluta* (Compositae:Vernonieae) in South Andaman District, Andaman and Nicobar Islands. *Nelumbo* 64(2): 259-262.
22. PALANISAMY M., A. SANTHOSH KUMAR Y AND S.K. YADAV 2022. Class Chlorophyceae – An Updated Checklist of Marine Macroalgae from Andhra Pradesh, East Coast, India. *Nelumbo*. 64 (2): 317-326.
23. PUNEET KUMAR., H. SINGH AND S. K. SINGH. 2022. IAPT/IOPB chromosome data 37/3. In: Marhold, K. & Kucera, J. (eds.) & al., IAPT chromosome data. *Taxon* 71 (6): 1350–1351 (IF=2.680).
24. SAVITHRA N, S.G. MALAMMANAVAR, A. SANTHOSH KUMAR AND M. PALANISAMY 2022. Six New Additions to Algal Flora of India. *Nelumbo* 64(2): 312-316.
25. SENGUPTA, R. AND S. S. DASH 2022. A stage-based assessment of invasion and comparative inventory of the alien plants in Mizoram and Tripura, an Indo-Burma biodiversity hotspot region in India. *Nelumbo* 64(2): 8-13
26. SENGUPTA, S., D.K. AGRAWALA, A. BHATTACHARJEE, C. DEORI, D. MAITY AND S. CHOUDHURY 2022. Notes on the correct identity of *Phalaenopsis arunachalensis* (Orchidaceae). *Nelumbo* 64(2): 177-180.
27. SINGH, R.K. 2022. A revised typification of *Cucumis acutangulus* (Cucurbitaceae). *Annales Botanici Fennici* 60: 1-4.
28. SWAMY, J. AND L. RASINGAM 2022. *Pancratium verecundum* (Amaryllidaceae): An Addition to the Flora of Southern India. *J. Econ. Tax. Botany* 46 (3-4): 126-128.
29. SWAMY, J., L. RASINGAM AND P.H. KRISHNA 2022. New Distributional Record of The Endemic Plant *Heterostemma dalzellii* (Apocynaceae: Aclepiadoideae) from Telangana State, *J. Econ. Tax. Botany* 46 (3-4): 129-131

30. TIWARI, U. L. 2022. New additions of plants to the flora of Arunachal Pradesh and India. *Nelumbo* 64(2): 263-265
31. TIWARI, U. L. 2023. *Impatiens tajoensis* (Balsaminaceae): A new species from Arunachal Pradesh, India. *Taiwania* 68(1): 39–43, 2023 DOI: 10.6165/tai.2023.68.39
32. TRIPATHI, S., J. SRIVASTAVA, A. GARG, S. KHAN, A. FAROOQUI, F. QUAMAR, B. THAKUR, P. S. RANHOTRA, S. K. BASUMATARY, A. TRIVEDI, S. PANDEY, K. ANUPAMA, S. PRASAD AND N. REGHU 2022. Surface pollen quantification and floristic survey at Shaheed Chandra Shekhar Azad (SCSA) Bird Sanctuary, Central Ganga Plain, India: a pilot study for the palaeoecological implications. *J. Palaeosc.* 71(2022): 159–176,
33. TSERING, J. AND A. BHATTACHARJEE 2023. On the first authentic report of *Goodyera alveolata* (Orchidaceae) from India. *Nelumbo* 64(2): 187–191.
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