

DO. No.: BSI – 8/1/PA/2019 / 2401

Date: 31.01.2024

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, 2024.

Department: Botanical Survey of India

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

One new species, *Dendrophthoe longensis* L.J. Singh (Loranthaceae) described from Andaman and Nicobar Islands; *Athelia rolfsii* (Sacc.) Redhead & S-T. Mullineux, as new distribution of to the Flora of India; One Genus *Teramnus* P. Browne (*Papilionadeae- Leguminosae*) as new record to the flora of Andaman and Nicobar Islands; New distributional report of *Eragrostis* Wolf (*Poaceae: Chloridoideae*) viz., *E. maderaspatana* Bor, *E. nigra* Nees ex Steud. & *E. zeylanica* Nees & Mey to Telangana state; new distributional records of three species to Sikkim and five species to Arunachal Pradesh were also documented.

In addition, BSI scientists conducted 11 field/ local tours and collected 366 field nos. of specimens. Besides BSI completed metadata of 16035 herbarium specimens. During the month, 393,373 visitors visited the official website of BSI (163,012 visitors referred to BSI official website, 116,696 visitors referred BSI archives and 113,665 visitors visited the Indian Virtual Herbarium).

Important events / programmes organized / attended:


1. A three-day training workshop on “Plant Identification and Nomenclature” for the Indian Forest Service (IFoS) officers nominated by the Ministry of Environment, Forest, and Climate Change, Govt. of India, New Delhi, was organized in the Botanical Survey of India w.e.f., 3rd-5th January, 2024, at the Central National Herbarium.
2. The Central National Herbarium and Central Botanical Laboratory of Botanical Survey of India, participated in the APC Roy Science Fair and Exhibition at Belgachia, Kolkata w.e.f., 5th-7th January, 2024.
3. The three units of the Botanical Survey of India (CNH, CBL and ISIM) successfully participated in the 55th Sri Ramakrishna Mela & Exhibition 2024 w.e.f., 18th- 21st January, 2024.
4. BSI Vision 2047 document was released by Hon’ble Minister Shri Bhupendra Yadav, Minister of MoEFCC, on 30th January, 2024, at the meeting of National Institute for Research and Application of Natural Resources to Transform, Adapt and Build Resilience (NIRANTAR) at MoEFCC, New Delhi.

During this month 24 research papers and 5 books have been published by BSI scientists in various International and National research journals (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: NIL
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:
8. List of cases in which ACC directions have not been complied with: NIL

With regards,

Sincerely yours,



01/02/2024
A. A. MAO

To

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



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LIST OF PUBLICATIONS FOR JANUARY 2024

PUBLISHED PAPERS:

1. BARMAN, R. D., T. SAHA, J. SWAMY AND D. SINGH, 2023. Ex-situ Conservation of Palms with Special Reference to Endemic and IUCN Red List Species in Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, India. *Journal of Experimental Agriculture International* 45(12): 223–234. <https://doi.org/10.9734/jcai/2023/v45i122283>
2. BIHARATHI, M.S., R. CHANDRAN, R. SENTHILKUMARAN, K. RAMKUMARAN, V.P.P. THIANAPPAN, N.R. CHAUDHURY, M. PALANISAMY, R. RAJANE AND C. SATYANARAYANA, 2023. Preliminary report on the occurrence of lethal crustose (non-geniculate) coralline algae white band and white patch diseases in the coral reefs of Gulf of Kachchh, India. *Indian Journal of Geo Marine Sciences* 52(05): 255–260, DOI: 10.56042/ijms.v52i05.8010.
3. CHAKRABORTY, D., J. SWAMY AND D. SINGH, 2023. Development of New Hibiscus rosa-sinensis L. Cultivar Acharya Jagadish Chandra Bose D. Chakraborty, J. Swamy & D. Singh in West Bengal, India. *Journal of Experimental Agriculture International* 45(12): 155–159. <https://doi.org/10.9734/jcai/2023/v45i122273>
4. CROUS, P.W., M.M., COSTA, H., KANDEMIR, M., VERMAAS, VU, D., L., ZHAO, E., ARUMUGAM, A., FLAKUS, Z., JURJEVIC, M., KALIYAPERUMAL, S., MAHADEVAKUMAR... *et al.*, 2023. Fungal Planet Description Sheets: 1550–1613. *Persoonia*, 51: 280–417. <https://doi.org/10.3767/persoonia.2023.51.08>
5. DUBEY RASHMI AND NEELIMA A MOONAMBETHI, 2023. Current Insight of Follicolous Fungi: A Review in Indian. *Journal of Mycopathological Research* 61(4): 453–464.
6. GUPTA, PRATIBHA, 2023. First Report of Diversity of Cyanoprokaryotes of Jorapipe Area Near Prain Lake of Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, 5th International Conference on Environment and Society :83.
7. JALANDER, V. AND J. SWAMY, 2023. Taxonomic Studies of the Genus *Eragrostis* Wolf (Poaceae: Chloridoideae) in Telangana-with New Additions. *Journal of Experimental Agriculture International* 45(12), 102–139. <https://doi.org/10.9734/jcai/2023/v45i122271>
8. KOTTAIMUTHU, R. AND Y. MAHESHI, 2023. *Spiraea glabrescens*, the legitimate name for *Spiraea celtifolia* (Rosaceae). *Phytotaxa* 632(1): 93–94.
9. KRIPA, T.S., S. KUMAR, K.T., MUFEEDE, J.M., JOSE, S. MAHADEVAKUMAR, AND RAGHUVENDRA SINGH, 2024. Morpho-Cultural and molecular phylogenetic characterization of *Curvularia verruculosa* causing leaf spot and blight disease of *Strychnos potatorum* from India. *Physiology and Molecular Plant Pathology*, 129: 102207. <https://doi.org/10.1016/j.pmpp.2023.102207>
10. OM PRAKASH RANEE, CAROLINE WHITEFORD, V. SAMPATH KUMAR, WILSON ARISDASON, RAJDEO SINGH, JULIE A. HAWKINS AND MARK A. CARINE, 2024. Samuel Browne's late 17th Century Indian herbarium: Identifications and early modern taxonomic practice. *Botany Letters*. DOI: 10.1080/23818107.2023.2296095 (published online on 7th Jan 2024).
11. PANDA, S.P., M.U. SHARIEF, S.S. HAMEED AND H.N. SUBUDHI, 2023. A Glimpse of the Ecology and Conservation Strategies of Orchids of Odisha, India. *Eco. Env. & Cons.* 29 (4), pp. (1583–1588).
12. PRABHU, S., ARIGELA, R.K., AND CH.S. REDDY, 2023. A new synonym of *Barleria prionitis* subsp. *pubiflora* (Benth. ex Hohen.) Brummitt & J.R.I. Wood (Acanthaceae). *Journal of Economic and Taxonomic Botany* 47(4): 189–191.
13. PUROHIT, C.S. AND L.J. SINGH, 2023. A note on Occurrence of an Endangered Plant *Cleome rutidosperma* var. *burmanii* from Andaman and Nicobar Islands. *Journal on New Biological Reports (JNBR)* 12(1): 41–44.
14. PURTI, N., L.J. SINGH AND A.K. PANDEY, 2023. New hosts for the Andaman Baron butterfly, *Euthalia aconthea acontius* (Hewitson, 1874) (Lepidoptera: Nymphalidae) in an Island Ecosystem. *Journal of the Andaman Science Association*, 28(2):173–187.
15. SALEEM, F., L.J. SINGH AND A.K. PANDEY, 2023. *Teramuss* P. Browne (Papilionaceae– Leguminosae) – A new addition to flora of Andaman and Nicobar Islands, India. *Journal of the Andaman Science Association* 28(2):188–192.
16. SAMEER PATIL AND S. K. SINGH, 2023. Fixing stray traditions in Gingers III: reaffirming taxonomic status to *Zingiber squarrosus* sensu *Roscoe* (Zingiberaceae). *Phytotaxonomy* 2(2): 42–49.
17. SHERPA, N., J.H. FRANKLIN BENJAMIN AND RAJIB GOGOI, 2023. Three New Records of Plants for Sikkim, Panda 15(4): 6–11. ISSN: 2320-3943.
18. SINGH R.K. AND R.K. ARIGELA, 2023. *Senecio vinodii* nom. nov., a replacement name for *S. austriacus* Herborg (Asteraceae). *Journal of Biodiversity and Conservation* 7 (4): 29–32.
19. SINGH R.K., P.K. DEROLIYA AND S. KUMAR, 2023. Second-step lecto-typification and new combinations in *Noccaea* (Brassicaceae). *Journal of Biodiversity and Conservation* 7 (4): 24–28.
20. SINGH R.K., R.K. ARIGELA AND C.S. REDDY, 2023. *Agrostis phillipsiae*, a new name for *Agrostis diffusa* S. M. Phillips (Poaceae). *Journal of Biodiversity and Conservation* 7 (4): 33–36.
21. SINGH, L.J., 2023. *Dendrophthoe longensis* L.J. Singh, A new species of *Dendrophthoe* (Loranthaceae) from Andaman and Nicobar Islands, India. *Feddes Repertorium*, 134(1): 54–65.
22. SINGH, LALJI, S. MAHADEVAKUMAR, P.A., DHOLE, ANIL M. KUMAR, AND GAUTAM ANUJ EKKKA, 2023. Agro-Biotechnological Potential of Wild Banana Resources from Andaman and Nicobar Islands. In: 32nd APSI Scientist meet 2023 and International Conference on “Drug Discovery and Development in Agro-biotechnology and Pharmaceutical Sciences” organized by N. M. P. C., Ahmedabad, Gujarat. 2023. Abs. 102–103.
23. TEJASWINI, G. S., S., MAHADEVAKUMAR, JOSNA JOY, S., CHANDRANAYAKA, AND R. SOWMYA, 2023. Morphological and molecular characterization of *Athelia rolfsii* associated with foot rot disease of *Gomphrena globosa* – a new record from India. *Crop Protection*, 174: 106414. <https://doi.org/10.1016/j.cropro.2023.106414>
24. TIWARI, U.L. (2023). Five angiosperms: new addition to the flora of Arunachal Pradesh, Indian, *Indian Forester*, 149(12):1299–1301.

BOOKS:

1. AGRAWALA, D.K., J.S. JALAL, A. BHATTACHARJEE, C. DEORI, A.A. MAO, V. K. YADAV, 2023. Wild Orchids of West Bengal. Botanical Survey of India & Directorate of Forests, Government of West Bengal.
2. D.K. SINGH & D.K. SINGH, 2023. Liverwort and Hornwort Flora of Sikkim, Vol.I, Botanical Survey of India, Kolkata.
3. D.K. SINGH & D.K. SINGH, 2023. Liverwort and Hornwort Flora of Sikkim, Vol.II, Botanical Survey of India, Kolkata.
4. DUBEY, RASHMI, 2023. Microfungi of Sanjay Gandhi National Park, Mumbai, Maharashtra, Botanical Survey of India, Kolkata.
5. HARIKRISHNA P., P.K., DEROLIYA, RAMESH KUMAR AND RAVI KIRAN ARIGELA, 2023. Wild Edible Fruits of Rajasthan. Ambika Prasad Research Foundation, Cuttack (Orissa).