

DO. No.: BSI – 8/1/PA/2019 / 1067

Date: 30.11.2022

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 November 2022.

Department: Botanical Survey of India

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

Scientists of BSI reported three taxa as new to science viz. *Bunodophoron awasthii*, a new lichen species; and two new species of liverworts viz. *Telaranea mizoramensis* (Lepidoziaceae) and *Cylindrocloea mizoramensis* (Cephaziellaceae) from Mizoram, Northeast India. They have also reported six taxa as new records to various states viz *Vigna hainiana*, *V. stipulacea* (Fabaceae) and 3 new genera *Acilepis*, *Camonea* and *Scleromitrium* to the flora of Telangana; and *Solmsiella biseriata* (Erpodiaceae) – a Bryoflora to Central India.

In addition, BSI scientists conducted 4 field/ local tours, and collected 393 field nos. of specimens. Towards digitization, BSI completed metadata of 10283 herbarium specimens. During the month, 3,60,562 visitors visited BSI official websites (1,44,253 visitors referred BSI homepage website, 1,09,403 visitors referred BSI archive, and 1,06,906 visitors visited the Indian Virtual Herbarium).

Important events / programmes organized / attended:

1. Dr. A. A. Mao, Director, Botanical Survey of India participated in the 19th meeting of the Conference of Parties (CoP) to the Convention on International Trade in Endangered Species of wild fauna and flora (CITES), held w.e.f. from 14th – 25th November 2022 at Panama City, Panama.
2. The Mansarovar Global University (MGU), Bhopal in collaboration with the Indian Fern Society and the Botanical Survey of India hosted the XVIIth Annual Conference of the Indian Fern Society and also organized a National symposium on Advances in Pteridology Research: Present Status and Future Strategies from 25th to 27th November, 2022 at MGU, Bhopal. Dr. S.S. Dash, Sci-E & Incharge, Tech. Sect, BSI-HQ, Dr. A. Benniamin, Sci-E, BSI-WRC, Pune and Dr. V.K. Rawat, Sci-E, BSI-APRC, Itanagar attended and delivered the invited lecture.
3. Dr. A. A. Mao, Director, BSI, Dr. J.S. Jalal, Sci. E, HQ and Dr. L. Rasingam, Sci. E & Hoo, DRC, Hyderabad attended the Parliamentary Rajbhasha Committee meeting at Hyderabad on 7th November, 2022 and received the certificate of inspection from the committee.
4. BSI-Eastern Regional Centre, Shillong participated and displayed an exhibition on the activities of BSI in the Science Fest 2022 on the theme of "Science and Technology for a sustainable future", organized by the Synod College, Shillong, sponsored by DBT, Ministry of Science and Technology, Govt. of India held on 21st October 2022.
5. BSI-Northern Regional Centre, Dehradun, in collaboration with Uttarakhand Science Education and Research Centre (USERC) organised a workshop on Hands on Field Based Taxonomy w.e.f. 28th November to 3rd December, 2022 to promote taxonomic research among the College students.
6. All officers and staff of BSI take oath on Rashtriya Ekta Divas on 31.10.2022 to commemorate the birth anniversary of Sardar Ballav Bhai Patel.

Important scientific publications:

During this month 16 research publications 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 ongoing Swachhta Abhiyaan (Progress under Special Campaign): Under outreach activities, regular cleaning drives and public awareness campaigns are organized in BSI.
6. Status of Rationalization of Autonomous Bodies: NIL
7. Information on the specific steps taken for utilization of the space technology based tools and applications in governance and development: NIL
8. Vacancy position of senior level appointments in the Ministry/ Department, including Autonomous Bodies/ PSUs: Communicated in the Ministry separately.
9. List of cases in which ACC directions have not been complied with: NIL

With regards,

Sincerely yours,



A. A. MAO

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



List of Publications for November, 2022**Research Papers published: 16**

1. BHANDARI M. S., S. MAIKHURI, A. THAKUR, G.S. PANWAR, A. SHAMOON AND S. PANDEY 2022. Rapid multiplication of mature *Eucalyptus* hybrids through macro and-micropropagation. *The Nucleus*. <https://doi.org/10.1007/s13237-022-00394-3>.
2. GOGOI, K. AND K. CHOWLU 2022. The genus *Thrixspermum* Loureiro in Arunachal Pradesh and three new additions. *Mord. Phytomorphology*. 16: 181-186. DOI. 10.5281/zenodo.200121.
3. JAGADEESH RAM T.A.M. AND G.P. SINHA 2022. Additional records of Pyrenocarpous lichens from the Andaman and Nicobar Islands, India. *Cryptogam Biodiversity and Assessment* 6(1): 27-33.
4. JAGADEESH RAM T.A.M. AND G.P. SINHA 2022. *Bunodophoron awasthii*, a new lichen species from India. *Cryptogam Biodiversity and Assessment* 6(1): 11-13.
5. JALANDER, V. AND J. SWAMY 2022. New distributional record of the endemic plant *Vigna hainiana* (Fabaceae) from Telangana, Peninsular India. *Indian J. of Forestry*, 45(1): 24-26. <https://doi.org/10.54207/bsmps1000-2022-PZ3O9J>
6. JALANDER, V. AND J. SWAMY 2022. *Vigna stipulacea* (Fabaceae): An addition to the Flora of Telangana. *Bioinfolet* 19(3): 301-303.
7. KULLOLI R.N. AND C.S. PUROHIT 2022. Assessment of IUCN threat category and present population status of *Ammannia desertorum* Blatt. & Hallb. in Indian desert. *International J. of Agriculture Sciences*, 13(2): 102 – 108.
8. KUMAR, S., AND P. GUPTA 2022. Impact of over cultivation of Makhana. *Int. J. of Biol. Inno.* Vol. 4(2): 313-321.
9. LAHIRI, S., S. S. DASH AND R. MAITY 2022. Revisiting the typification of three names in the family Gentianaceae. *Phytotaxa* 572 (3): 289–294. <https://doi.org/10.11646/phytotaxa.572.3.8>
10. MAITY, R., M. SAWMLIANA AND S. S. DASH 2022. Rediscovery of *Phlogacanthus jenkinsii* (Acanthaceae) from India after 140 years. *Phytotaxa* 573 (2). DOI: <https://doi.org/10.11646/phytotaxa.573.2.8>
11. QUAMAR, F.H., A. GARG, A. FAROOQUI, N. PRASAD, S.KHAN, A. N. SHUKLA 2022. A New Pollen Aperture in *Schleichera oleosa* (Lour.) Oken. from Madhya Pradesh, Central India, and its Taxonomic and Evolutionary Significance. *Internat. J. Plant and Environment* 8(2): 133-136.
12. RANJANA, BINWAL M, A.K. VERMA, D.U. BAWANKULE, N. TIWARI AND K. SHANKAR 2022. Stimulation of glucose uptake by glycosides from *Alectra parasitica* subsp. *chitrakutensis* (M.A. Rau) K.K. Khanna & An. Kumar: An in-vitro study of TNF- α induced insulin resistance in L6 myoblasts. [Natural Product Research](https://doi.org/10.1080/14786419.2022.2112957). DOI: [10.1080/14786419.2022.2112957](https://doi.org/10.1080/14786419.2022.2112957).
13. SINGH, D., R. D. BARMAN AND T. SAHA 2022. *Solmsiella biseriata* (Austin) Steere (Bryophyta: Erpodiaceae) – an addition to Bryoflora of Central India. *Plant Science Today*. doi.org/10.14719/pst.1472
14. SINGH, S. K. 2022. Description of two new species of liverworts (Marchaniophyta) from Mizoram Northeast India. *Indian J. of Forestry*. 45(1):27-31
15. SWAMY J., A. APPAIAH, L. RASINGAM, V. JALANDER 2022. Report of invasive species *Ageratum houstonianum* (Asteraceae) from Telangana, India. *Indian J. of Forestry* 45(1): 38-40. <https://doi.org/10.54207/bsmps1000-2022-N8LNA5>
16. SWAMY J., V. JALANDER, A. APPAIAH AND L. RASINGAM 2022. Three new generic records to the Flora of Telangana state, India, *Bioinfolet* 19(3): 220-222.