

ए. ए. माओ
निदेशक
A. A. Mao
Director



सत्यमेव जयते

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 /1690

Date: 01.03.2022

Dear Smt. Pandey,

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 February, 2022.

Department: Botanical Survey of India

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

Scientists of BSI reported a **three taxa as new to science** viz. *Dictyosporium matherense* from the Western Ghats, *Striga todgarhica* from the Arid zone and *Staurogyne arunachalensis* (Acanthaceae) from the North East India (Arunachal Pradesh). Besides, BSI also reported **four taxa as new additions to the various states** viz. *Spathoglottis affinis* as an addition to the flora of India, and a new Bryophyte genus *Metalejeunea* to Bryoflora of North-East India, *Cheilolejeunea obtusifolia* for Manipur, and *Datura discolor* (Solanaceae) as an addition to the flora of Maharashtra and rediscovered **two taxa** viz. *Senecio kundaicus* (Asteraceae) and *Impatiens laticornis* (Balsaminaceae) from the Nilgiri Biosphere Reserve. In addition, BSI also completed metadata of **30,650** herbarium specimens.

Important events / programmes organized / attended:

- BSI, on the occasion of its 133rd Foundation day, organised two days National webinar on 'Floristic Research in India, Contribution of BSI to the Nation: Present and Future' on 13th and 14th February 2022. On this occasion, 5 lead lectures were delivered by the eminent speakers and 26 lectures by the senior scientists of BSI. 701 participants, including 235 faculties from various universities and colleges, 214 students, 112 research scholars, 111 BSI officials and 29 participants attended this webinar.
- Dr. A.A. Mao, Director BSI, Dr. J.S. Jalal, Scientist E & Hindi Officer, HQ attended the 3rd Parliamentary Inspection Committee, held at BSI, ANRC, Port Blair on 25th February, 2022.
- Dr. S.S. Dash, Scientist E & Incharge, Tech. Sect. attended the Inter Agency Coordination meetin of *Wildlife Crime Control Board* at Aranya Bhavan, Kolkata on 23rd Feb. 2022. He also attended a virtual meeting with DG, Forests, MoEF&CC and discussed on the *Wildlife Protection Act Wildlife Protection Act (1972) and its amendment (2021)*, and on the *Integrated Management Plan for Biosphere Reserves*, held on 23rd and 25th Feb. 2022 respectively.
- BSI, CNH, Howrah and BSI-ENVIS resource partner on Biodiversity (Flora) observed the 'World Wetlands Day' on 2nd February, 2022. Dr. K. Karthigeyan, Scientist-E, CNH delivered a talk on "Floristic study of East Kolkata Wetlands". On this occasion, National level Drawing competition was organized for school children's under different age groups in online virtual was made. Children of various age groups from all over the country attended this competitions. Winners were provided e-Certificates.

Important scientific publications:

During this month **25 research publications** have been published by BSI scientists in various International and National research journals (*Annexure 1*).

BSI Website: During this month **99,946** persons visited BSI website.

B. Important policy matter is held up on account of prolonged inter-ministerial consultation: NIL

- Compliance of COS decisions: Nothing pending
- 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 implementation of e-governance: PFMS, CPGRAMS, e-Publications of *Nelumbo*, procurement through GEM Portal and digital archives etc. have already been implemented.
- Details of cases in which ACC directions have not been complied with: NIL
- Status of Public grievances:

No. of public grievances redressed during the month	No. of Public grievances pending at the end of month
0	1

- Information on the specific steps taken by the ministry/department for utilization of the space technology based tools and applications in governance and development: NIL

With regards,

Sincerely yours,

01/03/2022
A. A. MAO

To
Smt. Manju Pandey, Jt. Secretary, (CS), MoEF & CC, New Delhi – 3



सी.जी.ओ कॉम्प्लेक्स, तृतीय एम.एम.ओ भवन, ब्लॉक-एक (पाँचवा तल), डी एफ ब्लॉक, सेक्टर 1, साल्ट लेक सिटी, कोलकाता-700 064 फोन : 033-23344963

CGO Complex, 3rd MSO Building, Block F (5th Floor) DF Block. Sector 1, Salt Lake City, Kolkata - 700064 Phone : 033-23344963
E-mail : aamao2008@gmail.com

List of Publications for February, 2022Research Papers published: 25

1. ARIGELA, R.K. AND C. SRINIVASA REDDY 2022. New synonymy in the genus *Crotalaria* L. (Fabaceae). *Species* 23(71): 54–59.
2. ARON SANTHOSH KUMAR, Y AND PALANISAMY M, 2021. Two New Combinations for the Endemic taxa of *Ulva* from India. *Nelumbo* 63 (2): 20–22.
3. DEROLIYA, P.K., S.K. SINGH, SAMEER PATIL AND SACHIN SHARMA, 2022. An annotated checklist of the flora of Himachal Pradesh, India. *Annals Forest.* 27(1&2): 1-294.
4. DHOLE, P.A., M. MISHRA AND SUJANA, K. A. 2020. Wild edible plants traditionally used by the tribes in Malkangiri district, Odisha, India. *J. Econ. Taxon Botany* 44(1-4): 24-32.
5. DUBEY, R. 2022. *Dictyosporium matherense* sp. nov.: A new-fangled cheirosporous fungal species described from the Western Ghats of India. *Asian J. Forestry* 6(1): 1-8
6. DUBEY, R. AND A.D. PANDEY 2022. Inventory and data analysis of leaf inhabiting fungi of protected areas of Northern Maharashtra, India. *Indian Phytopathology* Vol 75:1-9.
7. GUPTA, PRATIBHA 2022. Epiphytic Cyanoprokaryotes Diversity on Great Banyan Tree (*Ficus bengalensis* L.) of Acharya Jagdish Chandra Bose Indian Botanic Garden, Howrah. *Anusandhan* 9(1): 15 - 20.
8. GUPTA, PRATIBHA 2022. Diversity of Cyanoprokaryotes and Algae from *Brattnevet Peninsula* of Larsemann Hills, East Antarctica: First Report. *3rd International Conference on Environment and Society (ICES 2021)*.
9. JALAL, J.S., C. DEORI, C. MURUGAN, N. ODYUO, B. S. KHOLIA, D. L. BIATE, S. R. TALUKDAR, AND Y. MAHESH. 2021. *Spathoglottis affinis* de Vriese (Orchidaceae), A new addition for the flora of India. *Nelumbo* 63(2): 89-93.
10. JOSHI, B., G.S. PANWAR AND S.K. SINGH 2022. *Eulophia dabia* – A lesser known critically endangered terrestrial orchid. *Indian Forester* 148(1):83-87.
11. KHOLIA, B.S. 2022. Indian Pteridophytes: a plea for domestication, horticulture, and *ex-situ* conservation. *Indian Fern J.* 38: 222-264.
12. KUMAR, SHASHI, S.K. SINGH AND S. L. BONDYA, 2022. *Cheilolejeunea obtusifolia*: A New Distributional Record from Manipur Northeast India. *Annals Forest.* 28(1&2): 7-10.
13. NAGARAJU, S., R.K. ARIGELA, K.A.A. KABEER AND D. SANGITA 2021. On the occurrence of *Tripogonella minima* (Poaceae: Chloridoideae) in India. *Nelumbo* 63 (2): 66–71.

14. POOJA, R. M., J. SWAMY, C.B. SALUNKHE, T.J. SHAIKH AND G.G. POTDAR 2022. *Datura discolor* (Solanaceae): An addition to the flora of Maharashtra, India. *Indian Forester* 148 (1): 99-100.
15. PREMKUMAR, M., B. KARTHIK, M. MURUGESAN AND R. MANIKANDAN 2021. Rediscovery of *Senecio kundaicus* (Asteraceae), a critically endangered and stenoendemic species from Nilgiri Biosphere Reserve, India. *Nelumbo*. 63 (2): (28-31)
16. PUROHIT C.S. 2022. *Striga todgarhica* (Orobanchaceae) - A New parasitic species from Todgarh-Raoli wildlife sanctuary, Rajasthan, India. *J. New Bio. Rep.* 10(2): 89 – 94.
17. SINGH, S. K., K. PAGAG, D. K. ROY AND A. A. MAO 2022. SEM Studies on Pollinia of *Dendrobium* species from Northeast India. *Annals Forest.* 28 (1&2): 15-25.
18. SINGH, S.K., V.K. RAWAT, A. BENNIAMIN AND C.R. FRASER-JENKINS 2022. Ferns and Fern-allies of Meghalaya - An Updated Account. *Annals Forest.* 28(1&2): 27-37.
19. SINGH, SUSHIL KUMAR AND K. K. RAWAT 2022. Two New *Plagiochila* (maechantiophyta: Plagiochilaceae) from India. *Annals Forest.* 28(1&2): 1-5.
20. SINGH, SUSHIL KUMAR, SHASHI KUMAR AND SUTANU LAL BONDYA 2022. Genus *Metalejeunea* Grolle: A New Addition to Bryoflora of North-east India. *Annals Forest.* 28(1&2): 11-13.
21. SRIVASTAVA, A., H. SINGH, A. BHANDARI, P. KUMAR, G. S. PANWAR, AND A.A. MAO. 2022. Ornamental potential of *Gentiana kurroo* could be a Boon for its survival: A Critically Endangered species. *Indian Forester* 147 (1): 120-122.
22. THARANI, R., M. MURUGESAN, V. RAVICHANDRAN, B. KARTHIK AND V. ANUSUBA 2021. Rediscovery of *Impatiens laticornis* C.E.C. Fisch. (Balsaminaceae), a stenoendemic and critically endangered species from Nilgiri Biosphere Reserve, southern India. *Nelumbo*. 63 (2): (32-36)
23. TIWARI, M. K. AND P. GUPTA 2021. Bionomics, Distribution and Relationships of Earthworms. *Anusandhan* 9(1): 46 - 50.
24. VADHYAR, R.G., M. BOOPATHIAYANAR AND K.A. SUJANA 2022. Notes on distribution, population and conservation status of *Henckelia missionis* - an endemic species of Tamil Nadu. *Species* 23(71):44-48.
25. YAMAL., D. BORAH AND R.K. SINGH 2022. *Staurogyne arunachalensis* (Acanthaceae), a new species from Arunachal Pradesh, India. *Annales Botanici Fennici* 59: 47-51