



सत्यमेव जयते
भारत सरकार

Government of India

पर्यावरण, वन और जलवायु परिवर्तन मंत्रालय
Ministry of Environment, Forest & Climate change
भारतीय वनस्पति सर्वेक्षण / Botanical Survey of India



DO. No.: BSI – 8/1/PA/2019 / 227

Date: 01.03.2021

Dear 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 **February, 2021**

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** namely *Russula banyakundensis* (subg. *Russula* subsect. *Lepidinae*) from the Western Himalaya and *Lonavalomyces-* from the Western Ghats (Lonavala, Maharashtra).

Important events / programmes organized / attended:

- BSI observed its **132nd Foundation Day** on 13th February, 2021. On this occasion, a special lecture on the mission and vision of BSI was organized.
- BSI signed a **MoU** with the Indian Council of Forestry Research and Education (ICFRE) Dehradun on 15th February, 2021 on virtual mode. On this occasion, the Director General, ICFRE and the Director, BSI signed the MoU in presence of other senior officials of both the organizations.
- BSI organized a series of **3 webinars** namely a webinar on "*Potential Importance and Conservation need under Climate Change Scenario*" on 02.02.2021 by Botanical Survey of India, Southern Regional Centre, Coimbatore; a webinar on "*Role on Botanical Survey of India*" on 22.02.2021 by Botanical Survey of India, High Altitude Western Himalayan Regional Centre, Solan, H. P. and a webinar in series of its second green talk on 23.02.2021 by Botanical Survey of India, Sikkim Himalayan Regional Centre, Gangtok.

Important publications:

During this month, 21 research publications and 1 book have been published by BSI scientists in various international and national research journals (**Annexure 1**).

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

3. **Compliance of COS decisions: Nothing pending**

4. **No. of cases of 'Sanction for prosecution' pending for more than 3 months: NIL**

5. **Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the government: NIL**

6. **Status of implementation of e-governance: PFMS, CPGRAMS, e-Publications, GEM Portal of *Nelumbo* etc. have already been implemented.**

7. **Details of cases in which ACC directions have not been complied with: NIL**

8. **Status of Public grievances:**

No. of public grievances redressed during the month	No. of Public grievances pending at the end of month
01	01

9. **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,

Yours sincerely,


(S.S. DASH)
(Director- In-Charge)

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

Important Research Publications

1. BISWAS T.K., S. CHAKRABARTI, B. AUDDY, T. MONDAL, S. PANDIT AND T. SEAL, 2021. *Pterocarpus santalinus*: A Wonder Gift of Nature. In: Mandal S.C., Chakraborty R., Sen S. (eds) Evidence Based Validation of Traditional Medicines. Springer, Singapore. https://doi.org/10.1007/978-981-15-8127-4_44.
2. DEBTA, M.R. AND K. AMBRISH, 2021. Vegetation and Floristic Analysis in Col. Sher Jung National Park, Sirmaur district, Himachal Pradesh. In L.J. Singh & V. Ranjan (eds.), *New Vistas in Indian Flora* 2: 613-638.
3. FRASER-JENKINS C. R., B.S. KHOLIA AND D.R. KANDEL, 2020. Recent changes and corrections in the taxonomy of Indian Pteridophytes: Part 2. *Indian J. For.* 43(1): 58-86.
4. FRASER-JENKINS, C.R., K.N. GANDHI, B.S. KHOLIA AND D.R. KANDEL, 2020. *An annotated checklist of Indian Pteridophytes Part-III.* (Lomariopsidaceae to Salviniaceae). Bishen Singh Mahendra Pal Singh Dehradun. ISBN978-81-949953-7-1.
5. GARG, A., R.T. PATRUT, A. PATRUT, S. WOODBORNE AND LASZLO RAKOSY, 2021. Radiocarbon dating and status of the oldest extant Ceylon iron wood (*Manilkara hexandra*) in the reverine Ramsar site of India. *Current Science.* 120(3): 562-566.
6. GHOSH, A., K. DAS AND D. CHAKRABORTY. 2021. Morphology and molecular approach reveal a new species of the genus *Russul* subsect. *Lepidinae* (Russulaceae) from India. *Phytotaxa* 483(3): 244-254.
7. GUPTA, PRATIBHA, 2020. Epiphytic algal diversity on mango tree of Acharya Jagdish Chandra Bose Indian Botanic Garden, Howrah. *Anusandhan* 8(1): 60 - 64.
8. MAJUMDAR S. AND M. DEY, 2021. *Drepanolejeune amawtmiana*, a new synonym of *Drepanolejeune aherzogii* (Lejeuneaceae: Marchantiophyta) with a note on the diversity of the genus *Drepanolejeunea* in India. *J. Bryology*, DOI: 10.1080/03736687.2020.1864893.
9. PAGAG K., DEEPU VIJAYAN AND A.A. MAO, 2020. Phytochemical studies of leaves and roots (*in vitro*) of endemic orchid *Arachnissenapatiana* (Phukan & A.A. Mao) Kocyan & Scuiteman. *J. Pharmacogn. Phytochem.* 9(6): 1465-1467.
10. PAGARE, R.S., M.K. JANARTHANAM AND W. ARISDASON, 2021. Typification of four names of *Dioscorea* (Dioscoreaceae) from India. *Phytotaxa* 480(3): 262-268.
11. PATIL, SACHIN M., VINAY M. RAOLE, V.K. RAWAT AND KISHORE S. RAJPUT, 2020. Diversity of the genus *Tectaria* Cav. (Tectariaceae) in Eastern Himalaya and North-East India. *Pleione* 14 (2): 179-196.
12. PRAMEELA, R., M. VENKAIAH, J. SWAMY, AND J. PRAKASARAO. 2020. Amaryllids of Andhra Pradesh, India. *Trop. Plant Res.* 7(3): 594-603.
13. RASHMI DUBEY. 2020. *Lonavalomyces*- A New Anamorphic Ascomycetes Genus reported from Lonavala, Western Ghats of India. *J. New Biological Reports.* 9(3): 316 – 320.
14. SINGH C. BAGATH AND A. BENNIAMIN, 2021. Assessment of threat status of *Cyrtomium micropterum* (Kuntze) Ching (Dryopteridaceae) in India using IUCN Regional guidelines. *J. Threat. Taxa* 13(1): 17554-17560
15. SINGH, C. BAGATH, A. BENNIAMIN AND D. JESUBALAN, 2020. Range Extension of Three South Peninsular Indian fern to Karnataka State. *Indian Fern J.* 37: 130-138.
16. SINGH, D. 2020. Bryophytes. In: CHANDRA, K., C., RAHUNATHAN AND A.A. MAO (eds.), *Biodiversity profile of East Kolkata Wetlands*. Zoological Survey of India and East Kolkata Wetlands Management Authority, Department of Environment, Govt. of West Bengal. pp. 283-289.
17. SINGH, D.K., S. MAJUMDAR, D. SINGH AND E.A.M. NOVOA, 2020. *Ramudaria* – A New Name for *Udaria* (Lophocoleaceae, Marchantiophyta) *Indian J. For.* 43 (2): 190-191.
18. TIWARI, A.P., A. GARG AND A.N. SHUKLA, 2021. *Blumea sonbhadrensis*, a new synonym of *Erigeron sublyratus* (Asteraceae). *Phytotaxa* 480 (3): 291-296.
19. TIWARI, M.K. AND PRATIBHA GUPTA. 2020. *In vitro* study on effect of antitubercular drugs on *Mycobacterium lucknowense* sp. nov. isolated from Indian frog *Rana tigerina*. *Anusandhan* 8(1): 48 - 52.
20. UMA MAHESHWARI, M. AND K. KARTHIGEYAN, 2021. On the occurrence and distribution of the narrowly endemic Andaman Lantern Flower *Ceropegia andamanica* (Apocynaceae: Ceropegieae). *J. Threat. Taxa* 13(1): 17597-17600.

21. UPADHYAY, A., R. GOGOI AND P.K. MITRA, 2021. Ethnobotany of the genus *Elatostema* JR Forster & G. Forster. *Ethnobot. Res. Appl.* 21: 1-24

Book: 1

22. RASINGAM, L. AND S.M. REHEL, 2020. Forest Plants of the Nilgiri Biosphere Reserve – North-eastern Nilgiri Biosphere Reserve – *A Pictorial Field Guide*, Keystone Foundation, Kotagiri, Tamil Nadu, pp. 1-362.