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A. A. Mao  
Director



भारत सरकार  
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/2019/139

Date: 04.05.2022

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 **APRIL 2022**.

**Department: Botanical Survey of India**

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

Scientists of BSI reported **one fungal taxon as new to science viz. *Cortinarius dombangensis*** (Agaricales, Cortinariaceae) from Indian Himalaya. In addition, BSI scientists conducted **20** field/ local tours and 2 Herbarium Consultation Tour and collected **1172** field nos. of specimens. Besides BSI completed metadata of **16205** herbarium specimens and 1900 medicinal plants database.

During the month, BSI uploaded and released 10 volumes of Flora of India series, 20 vols. of Fascicles, 37 State floras, 35 District floras, and 123 special and miscellaneous books on its official websites ([https:// bsi.gov.in](https://bsi.gov.in)). All these books have been made available for general public for free of cost. Besides, **2,52,843** visitors (1,30,017 for <https:// bsi.gov.in> and 1,22,826 for BSI archival) visitors referred BSI websites.

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

1. Dr. A.A. Mao, Director, BSI attended as Chief Guest in the 31<sup>st</sup> **Indian Association for Angiosperm Taxonomy Annual Conference & International Conference on “Documentation, Bioprospecting and Conservation of Biodiversity for Sustainable Development”**, Akole, Maharashtra on 4-6 April, 2022 and also delivered an invited lecture on conservation.
2. Dr. A.A. Mao, Director, BSI attended as special invitee in the **9<sup>th</sup> International Congress of Society of Ethnopharmacology**, held at JSS Academy of Higher Education & Research Mysure, Karnataka on 22-24 April, 2022 and honored with **Harihar Mukherjee Memorial Award, 2022** of the Society.
3. Dr. S.S. Dash, Scientist E & Incharge, Tech. Sect. BSI HQ attended a virtual meeting with MoEF&CC for formulation of guidelines on Integrated Management Plan for Biosphere Reserve on 28.04.2022.
4. BSI organized a **National Webinar on Traditional Knowledge and Ethnobotany** on 20<sup>th</sup> April 2022, in collaboration with Society of Ethnobotanists to commemorate the 1<sup>st</sup> death anniversary of late Dr. S.K. Jain, Ex-director, also known as Father of Indian Ethnobotany). Total 473 participants from different Institutions & Universities registered and joined the webinar through various social media platforms of BSI.
5. BSI, CNH, Howrah organized mass awareness programme on BSI social media platforms on World Health Day 2022 theme **‘Our Planet Our Health’**, to focus global attention on urgent actions needed to keep humans and the planet healthy on 7 April 2022.
6. All the Officers and Staffs of Botanical Survey of India observed and took **“Swachh Bharat Harit Bharat Green Pledge”** on 11.04.2022.

**Important scientific publications:**

During this month **17** 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:** Recruitment of 10 posts of scientist ‘C’ is pending in ministry and 13 posts of Botanists is pending in UPSC.
9. **List of cases in which ACC directions have not been complied with: NIL**

With regards,

Sincerely yours,

  
A. A. MAO

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



List of Publications for April, 2022**Research Papers published: 19**

1. ARIGELA R.K., R.K. SINGH, K. A. A. KABEER AND C.K. VISHNUDAS 2022. Floristic inventory of the habitats of the endangered montane grassland bird Nilgiri Pipit (*Anthus nilghiriensis*) at Palani Hills and Nilgiri Hills of southern Western Ghats, India. *Annales Universitatis Paedagogicae Cracoviensis Studia Naturae* 7: (1-15) <https://aupestudianaturae.up.krakow.pl/>
2. BEHARA D., S.S. JENA, B.T. PANDA, H.N.SUBUDHI AND S.P. PANDA 2022. *Eria meghasaniensis* (S, Misra) S. Misra, an endemic and endangered Orchid of Similipal Biosphere Reserve, Odisha India. *Eco. Env. & Cons.* 28: S294-S299 (Suppl. Issue).
3. BHAKTA, S., T.K ROUT, , D. KARMAKAR, C. PAWAR AND P.K. PADHY 2022. Trace elements and their potential risk assessment on polar ecosystem of Larsemann Hills, East Antarctica. *Polar Science*, 31: 100788 <https://doi.org/10.1016/j.polar.2022.100788>
4. DAS, K., D. CHAKRABORTY, A. GHOSH AND A. VIZZINI. 2022. *Cortinarius dombangensis* sp. nov. and *C. longistipitatus* (Agaricales, Cortinariaceae) from Indian Himalaya. *Nordic J. Bot.* doi: 10.1111/njb.03579
5. KHULLAR, S. P., S.C. VERMA, C. R. FRASER-JENKINS AND B. S. KHOLIA 2021. *Polystichum zayuense* (Dryopteridaceae) in India and some critical *Polystichum* species in the west Himalaya. *Indian Fern J.* 38 : 36-71. ISSN No: 0970-2741
6. KUMAR, A., AND T. CHAKRABARTY. 2022. Notes on the nomenclature and typification of eight names in Bignoniaceae. *Pl. Sci. Today* 9(sp1): 38–42. <https://doi.org/10.14719/pst.1554>
7. M. ANANTHA LAKSHMI, R. MANIKANDAN AND W. ARISDASON. 2020 Prickly Wild Edible Yellow Brinjal - A local medicinal plant of Tamil Nadu. *ENVIS Newsletter* 25(2), 2020.pg.no. 4–5.
8. NAYAK, S., D.K. AGRAWALA, S. CHAKRABORTY, R. ROY, A. BHATTACHARJEE AND D. MAITY 2022. Notes on the taxonomy, typification, extended distribution and Red list assessment of *Bulbophyllum nodosum* - an endemic and endangered orchid from India. *Bot. Let.:* DOI: 10.1080/23818107.2022.2043182 [IF: 1.744]
9. PATIL, S. 2022 Additions to the Flora of Kodagu district, Karnataka, India. *JETB* 45(1): 99-105.
10. PUROHIT C.S., K. JAIN, A. BHARTI, R. RAM AND R. PRASAD 2022. *Tephrosia pentaphylla* (Roxb.) G. Don.: Recollection from Todgarh-Raoli wildlife sanctuary, Rajasthan. *Indian Journal of Arid Horticulture* 2 (1 & 2): 79 – 80.
11. RAJU, V.S., S. PATIL, S. GURAPPA AND K. CHANDRAMOHAN 2022. Taxonomy and typification of *Dimeria mooneyi* (Poaceae: Andropogoneae: Ischaeminae). *JETB* 45(2): 33-39.
12. SAMAL, P., K. A MOLLA, A. BAL, S. RAY, H. SWAIN, A. KHANDUAL, P. SAHOO, M. BEHERA, S.JAISWAL, A. IQUEBAL, M. CHAKRABORTI, L.BEHERA, M. K KAR AND A. K MUKHERJEE 2022. Comparative transcriptome profiling reveals the basis of differential sheath blight disease response in tolerant and susceptible rice genotypes. *Protoplasma*. 259 (1): 61-73.

13. SINGH R.K. AND R.K. ARIGELA 2022. Taxonomic notes on southern Indian *Portulaca* (Portulacaceae). *Feddes Repertorium* 133: (1-13) <https://doi.org/10.1002/fedr.202100010>
14. SRIVASTAVA, R.C., P.K. AGRAWAL, RAMABHARATHI, V. AND PATIL, S. (2022) Gymnosperms in India: Ethnic and Economic uses. *JETB* 45(3): 173-183.
15. TURNER, I.M., AND A. KUMAR 2022. Prain's Erycibe (Convolvulaceae) types. *Webbia* 77(1): 169–172. doi: 10.36253/jopt-12014
16. JOSHI, V. C., RENU RAWAL, MANISHA BHANDARI, M .TRIPATHI, B.S. KHOLIA, PRADEEP SINGH, G.C.S. NEGI, AND R.S .RAWAL 2022. Lower Plants of Tungnath-Chopta Timberline Zone, Garhwal Himalaya. *ENVIS. Newsletter on Himalayan Ecology*. 17 (3): 5-8.
17. YADAV R.B., KUMAR A., S.K. VERMA AND L. J. SINGH 2021. An Ethnobotanical Survey of Medicinal Plants used for the treatment of Diabetes in Bundelkhand region of India. *J. of Emerging Technologies and Innovative Research (JETIR)* 8(11): 203-209