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निदेशक  
A. A. Mao  
Director



सत्यमेव जयते

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

Date: 03.06.2022

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 May 2022.

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 viz. *Eugenia pachakumachiana* (Myrtaceae) from the Western Ghats, India and *Grewia lakshminarasimhanii* (Malvaceae: Grewioideae) from the Southern Western Ghats, India. Besides, Scientists of BSI have also reported three taxa i.e. *Leptochillus minor* Fee as addition to the Pteridophytic Flora of Manipur and *Heterotis* (Melastomataceae) as a new generic record for Tamil Nadu and *Benkara fasciculata* (Rubiaceae: Gardenieae) to the flora of Andaman and Nicobar Islands. Further, the Indian lipstick plant, *Aeschynanthus monetaria* Dunn (Gesneriaceae) has been recollected after a century from Arunachal Pradesh.

In addition, BSI scientists conducted 5 field/ local tours and collected 158 field nos. of specimens. Besides BSI completed metadata of 15873 herbarium specimens. During the month, 131997 visitors referred BSI website.

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

1. BSI organized the **Heads of Offices meeting and RCM** at BSI, SRC Coimbatore w.e.f. 6-8 May, 2022, under the chairmanship of Dr. A.A. Mao, Director, BSI. All the regional heads of BSI attended and presented the progress of their centre.
2. **International Day for Biological Diversity** was observed on 22nd May 2022 by BSI and all its regional centres and units. Dr. A.A. Mao, Director, Dr. S.S. Dash, Scientist E & Incharge, Tech. Sect. and Dr. J. Jayanthi, Scientist E and other scientists from BSI, SRC Coimbatore attended the event at Chennai. BSI arranged a stall on “Biodiversity, Nutritional security & Human Wellbeing” at Biodiversity Exhibition. The Hon’ble Minister, EF&CC Shri Bhupendra Yadav also visited BSI stall. Besides, on this occasion various outreach activities such as plantation programmes, saplings distribution, and lectures were organized by BSI. CNH, Howrah organized two thematic lectures on “Diversity of Mangroves in India” and Diversity of Marine Macro Algae in India.
3. BSI, DRC, Hyderabad conducted one day **workshop** in collaboration with Government Degree College, Begumpet, Hyderabad on **Basics and applied aspects of Plant Taxonomy** on 29th April 2022.
4. Dr. A.A. Mao, Director, BSI inaugurated the **Lead Botanic Garden, BSI, NOEG, Yercaud, Tamil Nadu** on 5th May, 2022. Dr. S.S. Dash, Scientist E & Incharge, Tech. Sect., Dr. C. Murugan, Scientist E & Head of Office, HQ and other officials from CPWD & state Forest department attended the event.
5. BSI-ISIM, Kolkata celebrated **World Museum Day** on 18th May 2022. On this occasion, a guided tour and documentary was screened in two phases. About 500 visitors actively participated in the event.
6. BSI-Northern Regional Centre, Dehradun organized a one week **Taxonomical Training Programme w.e.f.** 23rd to 28th May, 2022 for UG and PG students in collaboration with the Uttarakhand Science Education and Research Centre (USERC), Dehradun.
7. BSI established its 3rd **Molecular Biology Laboratory** at Central National Herbarium, Howrah, which was inaugurated jointly by Dr. A.A. Mao, Director, BSI and Dr. Dhriti Banerjee, Director, ZSI Kolkata on 24th May 2022.
8. BSI-ISIM, Kolkata celebrated its **121st Foundation Day** in association with Lady Brabourne College, Kolkata on 29th May 2022. Dr. S.S. Dash, Scientist E & Incharge, Tech. Sect., Dr. C. Murugan, Scientist E & Head of Office, HQ and other officials of BSI attended the event.

**Important scientific publications:**

During this month 19 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. UPSC has declared the result of 13 posts of Botanists in BSI. Dossiers yet to receive.
9. **List of cases in which ACC directions have not been complied with:** NIL

With regards,

Sincerely yours,

03/06/2022  
A. A. MAO

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



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List of Publications for May, 2022Research Papers published: 19

1. ARUMUGAM, S. AND C. MURUGAN 2022. *Eugenia pachakumachiana* (Myrtaceae), A New species from the Western Ghats, India. *Edinburgh J. of Botany* 79: 1–10. <https://doi.org/10.24823/EJB.2022.1938>
2. BENNIAMIN, A, VINEET K. RAWAT AND ASHISH K. SONI 2022. *Leptochillus minor* Fee (An Endangered Fern); Addition to the Pteridophytic Flora of Manipur, North East India. *Indian Fern J.* 39(1): 206-209.
3. BENNIAMIN, A., SHUNMUGA SUNDARI, M., JESUBALAN, D., BAGATH SINGH, C. AND KAUSHIK SARKAR. 2022. In Vitro Developmental Ontogeny of A Medicinal Fern *Adiantum capillus-veneris* L. Through Spore Culture, *Indian Fern J.* 39: 65-74.
4. CHOWLU, KRISHNA, GOPAL KRISHNA AND W. ARISDASON. 2022. Recollection of Indian lipstick plant, *Aeschynanthus monetaria* Dunn (Gesneriaceae) after a century from Arunachal Pradesh, India. *Current Science.* 122 (8): 884-885.
5. DEROLIYA, P.K., SINGH, H., KUMAR, P. AND SINGH, S.K. 2022. Enumeration of Family Fabaceae from Sechu Tuan Nalla Wildlife Sanctuary, Chamba District, Himachal Pradesh (India). *J. of Botanical Research* 4(2) DOI: <https://doi.org/10.30564/jbr.v4i2.4651>
6. DUBEY, RASHMI AND A. D. PANDEY 2022. Documentation and statistical approach towards foliar fungi found in Western Ghats (Desh region of Maharashtra), India. *Plant Pathology & Quarantine* 12(1), 77–104, Doi 10.5943/ppq/12/1/6.
7. GHOSHAL, P.P., T. CHAKRABARTY, A. KUMAR AND S. DEY. 2022. Conspectus of the Genus *Dracaena* (Asparagaceae) in the Indo-Burmese Region. *J. Econ. Tax. Bot.* 45: 20–32.
8. KABEER, K.A.A, A.C. HALDAR AND R. SARAVANAN 2022. Ethnobotanical Study of Aurangabad and Nawada districts of Bihar, India. *J. Econ. Taxon. Botany* 45(1-4): 157-167.
9. KARTHIGEYAN, K., L. RASINGAM AND J. JAYANTHI 2022. *Benkara fasciculata* (Rubiaceae: Gardenieae) – an addition to the flora of Andaman and Nicobar Islands. *J. of Economic and Taxonomic Botany* 45: 114-115.
10. M. ANANTHA LAKSHMI AND R. MEHALA DEVI 2022. Achene micromorphological character study of six *Kyllinga* spp. (Cyperaceae) from south India using scanning electron microscope (SEM) for its taxonomic significance. *Indian J. of Forestry* 44(2), pp.55-61.

11. M. SHUNMUGA SUNDARI, A.BENNIAMIN, D.JESUBALAN AND RAJESHWAR DHAYAL 2022. In vitro spore germination of *Pityrogramma calomelanos* - A medicinal fern" *J. of Non-Timber Forest Products* Volume: 28: 1 Page No. 23-27.
12. SUNDARI M.S. A.BENNIAMIN, D.JESUBALAN AND KAUSHIK SARKAR 2022. In vitro Propagation of *Asplenium aethiopicum* through tissue culture. *J. of Non-Timber Forest Products* 28(2), pp.39-42.
13. PATIL, S. 2022. Six New Combinations and a New Name in *Gagea sensu lato* (Liliaceae) with Lectotypification. *J. of Japanese Botany* 97(2): 87–98.
14. ARUMUGAM, S., C. MURUGAN, W. ARISDASON AND R. MANIKANDAN 2022. *Grewia lakshminarasimhanii* (Malvaceae: Grewioideae), A New species from Southern Western Ghats, India. *J. of Economic and Taxonomic Botany*. 45(1-4).12-15.
15. SALEEM., FOUZIYA, R.B YADAV AND L. J. SINGH 2022. Some Sacred Plants of Andaman and Nicobar Islands, India. *International J. of Economic plants* 09(1): 81-87, [HTTPS://DOI.ORG/10.23910/2/2022.0442](https://doi.org/10.23910/2/2022.0442)
16. SINGH, R.K. 2022. Nomenclatural novelties and lectotypifications in Indian *Ardisia* (Primulaceae). *Annales Botanici Fennici* 59: 131-142.
17. SURESHKUMAR,P., THOMAS, J. AND BHAKTA, S. 2022. Development of DNA barcode for freshwater microalgae species revealing it's evolutionary insights on diversity in Noyyal river of Western ghats, India, *Env. Sci. Poll. Res.*, DOI: <https://doi.org/10.21203/rs.3.rs-1330489/v1> (Pre-Print).
18. SARAVANAN, T. S. AND S. KALIAMOORTHY 2022. Extended distribution of *Acmella radicans* (Asteraceae). *Indian J. of Forestry* 44(3): 102–104.
19. SARAVANAN, T. S. AND S. KALIAMOORTHY 2022. *Heterotis* (Melastomataceae): A new generic record for Tamil Nadu, India, *Indian J. of Forestry* 44(3), pp.105-107.