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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 /1497

Date: 31.07.2024

Madam,
In reply to OM no. 24011/08/2019–GC dated. 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 July, 2024.

Department: Botanical Survey of India

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

Scientists of BSI described three plant species new to science viz. *Phlogacanthus sudhansusekharii* (Acanthaceae) from Arunachal Pradesh and *Aeschynanthus maoi*, (Gesneriaceae) from Arunachal Pradesh and *Sutorius apleurocystidiatus* (Boletaceae) from India. Scientists of BSI have also reported three species, viz. *Plagiochila himalayana* Schiffn., *P. khasiana* Mitt., and *Solenostoma lanigerum* (Mitt.) Vána & D.G.Long, as new records from the state of Arunachal Pradesh; *Impatiens devendrae* from as new record from Himachal Pradesh; *Stemodia* L. (Plantaginaceae) as a new generic record to the Flora Andaman and Nicobar Islands; *Euphorbia jodhpurensis* Blatt. and Hallb. from Rajasthan;

Scientists of BSI conducted 12 field / local tours and 4 Herbarium Consultation tour and collected 518 field nos. BSI prepared metadata of 6345 herbarium specimens. During this month, 658,434 visitors visited the official websites of BSI (383,234 visitors referred official website, 127,275 visitors referred archives, and 147,925 visitors visited Indian Virtual Herbarium).

Important events / programs organized / attended:

1. BSI and all its regional centres / units celebrated Van Mahotsav 2024 on 5th July 2024, under the theme “Ek Ped Maa Ke Naam” and organized a mass plantation programme.
2. Dr Gobind Sagar Bhardwaj, ADG & CITES Management Authority of India, Ministry of Environment, Forest & Climate Change, Government of India along with Dr Avishek Bhattacharjee, Scientist-E, Botanical Survey of India, represented India as members of the Indian delegation to the 27th Meeting of CITES Plants Committee, Geneva on 8-13th July 2024.
3. Dr. S. K. Yadav, Botanist, Hqrs., BSI and Shri Sanjay Kumar, Botanist, CNH, Howrah conducted a comprehensive Green Audit and organized an awareness program at Sarat Centenary College, Dhaniakhali, Hooghly, West Bengal. This initiative was supervised by Dr. S. S. Dash, Scientist-F, BSI Headquarters, Kolkata. The event aimed to promote environmental consciousness and sustainable practices within educational institutions on July 20, 2024
4. Industrial Section Indian Museum (ISIM), BSI has celebrated “International Day for Conservation of Mangrove Ecosystem” on 26th July, 2024. The major aim of this occasion was to create awareness among students about the importance of Mangrove Ecosystem, their role in prevention of soil erosion especially in coastal areas and conservation strategies of this special type of vegetation.
5. A Para-taxonomy course is being conducted jointly by the Chhattisgarh State Biodiversity Board, Raipur and the Botanical Survey of India, Kolkata at New Raipur, Chhattisgarh w.e.f 22.07.2024 to 18.08.2024. The course is being attended by 15 technical staff from BSI.
6. An MoU was signed between BSI and the Green for Life Foundation, Kolkata on the lines of creation of a Miyawaki Forest on 1.4 acres of vacant land in the AJC Bose Indian Botanic Garden, Howrah.

During this month 23 research papers and 2 books got published by BSI scientists in International and National publications apart from participating in scientific lectures and publishing seminar abstracts. (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 Rationalization of Autonomous Bodies: -NA-
6. Information on the specific steps taken for utilization of the space technology based tools and applications in governance and development: NIL
7. Vacancy position of senior level appointments in the Ministry/ Department, including Autonomous Bodies/ PSUs: Communicated to the Ministry separately.
8. List of cases in which ACC directions have not been complied with: NIL

With regards,

Sincerely yours,


A. A. MAO 31/07/2024

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



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PUBLICATION OF JULY 2024:**RESEARCH PAPERS:**

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2. ARIGELA R. K., T. KATHULA, R. KUMAR, P.K DEROLIYA., S. JEEVITH AND R.K. SINGH. 2024. *Tephrosia purpurea*, the potential nectar source for the butterflies in Jodhpur, an arid zone of Thar Desert, Rajasthan, India. *Annales Universitatis Paedagogicae Cracoviensis Studia Naturae*,9.DOI: 10.24917/25438832.9.xx.2024.
3. ARON SANTHOSH KUMAR YOHANNAN., PALANISAMY MOOKKAN., SUDHIR KUMAR YADAV AND M. SAVURIRAJAN. 2024.Account on the diversity and distribution of the genus *Ulva* from India. *Regional Studies of Marine Science*. 77(2024)103634.<https://doi.org/10.1016/j.rsma.2024.103634>
4. CHIMYANG, N., P. MOSSANG., A. DHYANI., H. EVELIN., P. L. UNIYAL., D. SINGH., M. PAUL AND S. N. ALI. 2024. Addition to the liverwort flora (Marchantiophyta) of Arunachal Pradesh, India. *Journal of Threatened Taxa*. 16(6): 25410-25421. <https://doi.org/10.11609/jott.9044.16.6.25410-25421>.
5. DAS, K., S., DATTA, A., GHOSH AND A., VIZZINI. 2024. Insight into the “*Sutorius eximius* species complex” with concordant genealogies and morphology to unveil *Sutorius apleurocystidiatus* sp. nov. (Boletaceae) from India. *Taiwania* 69(3): 294–301.
6. DEBTA, M.R., A. SHENOY, M.K. AKHIL et al. 2024. *Aeschynanthus maoi*, a new species of Gesneriaceae from Arunachal Pradesh, India. *Brittonia*. <https://doi.org/10.1007/s12228-024-09790-2>.
7. DEROLIYA P.K. AND S.K. SINGH. 2024. Range extension and new distributional record of a narrow endemic Balsam, *Impatiens devendrae* from Himachal Pradesh, India. *Phytotaxonomy* 3(1): 1-4.
8. DOGRA K. S., R. SHARMA, K. AMBRISH, R. K. SINGH AND YODHVEER. (2024). Management of Invasive Alien Plant Species through their Traditional Ethno- Medicinal and Socio-economic uses in the Shivalik Hills of Himachal Pradesh, India. *Indian Forester*, 150(6): 543-556.
9. GOSWAMI, S. AND R. MAITY, 2023. A new species of *Phlogacanthus* (Acanthaceae) from India. *Indian Journal of Forestry* 46(4): 200–204.
10. HALDER, SUMAN, HUI TAG, V.K. RAWAT, A. SHENOY, A. GHOSH, S.S. DASH AND A.A. MAO. 2024. A Review on diversity of floristic elements in the Indian state of Arunachal Pradesh. *Journal of Bioresources* 11(2):1-18.
11. JHA VIDYANATH, BASANT KUMAR SINGH AND A.A. ANSARI. (2024). Palm Diversity in an Institutional Campus of Darbhanga, Bihar - With a Note on Coryphantha Lam.-A New Record for Bihar *e Journal of Applied Forest Ecology (eJAFE)*, Vol 12, No. 1 pp9 – 19
12. KHERDE, R. M., ANIL KUMAR M., P. A. DHOLE AND LAL JI SINGH. 2024. *Stemodia* L. (Plantaginaceae): A New Generic Record to the Flora Andaman and Nicobar Islands, India. *Journal of the Andaman Science Association* 29 (1).
13. PUROHIT C. S., A. KUMAR AND S. L. MEENA. 2024. Discovery of new population of an Endemic species *Euphorbia jodhpurensis* Blatt. And Hallb. from Indian desert, Rajasthan, India. *Journal on New Biological Reports* 13(1): 9 –12.
14. PURTI, N., L. J. SINGH, AND A. K. PANDEY. 2024. New host for Banana Skipper (*Erionota torus* Evans, 1941) in Andaman and Nicobar Islands, India. *Journal of the Andaman Science Association* 29 (1): 73-87
15. RAJNI KANT, DEVENDER KUMAR AND KUMAR AMBRISH (2024).Wild plants used as a forest ecosystem service by the local inhabitants of the Sarkaghat and its adjacent of

- Himachal Pradesh to the subsistence of their livelihood. *INTERNATIONAL JOURNAL OF TRENDS IN EMERGING RESEARCH AND DEVELOPMENT*. Volume 2; Issue 4; Page No. 04-07
16. ROHAN, M. S, V. RATHNA, A. ANTONY, K. MOHAN, A. M. IQBAL, S. GOPAKUMAR, G. SHINE, S. KUMAR, AND S. MAHADEVAKUMAR. 2024. First report of *Pseudopezalotiopsis camelliae-sinensis* causing leaf blight diseases on *Schleichera oleosa* (new global host record). *Australasian Plant Disease Notes* 19:19. <https://doi.org/10.1007/s13314-024-00542-5>
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 20. SINGH R.K. AND S. KUMAR. 2024. Lectotypification of the Linnaean name *Inulapinifolia* and *Seneciolallan-singhii*, a new name for *S. pinifolius* (L.) Spreng. (Asteraceae). *Journal of Biodiversity and Conservation* 8(2): 65–71.
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 23. VISAHL, V., S. S. TIGGA, P. THONGSUWAN, P. HAMVITHAYAKORN, N. SUWANNASAI, C. PHOSRI, M. E. HEMBROM, G. SINGH AND S. LAL. 2024. *Indian Phytopathology*. doi.org/10.1007/s42360-024-00768-4

BOOKS:

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2. BHAUMIK, M. AND A.A. MAO (eds). 2024. Flora of India Vol. 22. I-xxx, 1-804. BSI, Kolkata