



भारत सरकार

GOVERNMENT OF INDIA

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय

MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

तृतीय एम. एस. ओ. भवन / 3RD MSO BUILDING

पाँचवाँ और छठा तल / 5TH & 6TH FLOOR

डी एफ ब्लॉक, सेक्टर १ / DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६५ / SALT LAKE, KOLKATA – 700064

Tel.: (033) 2321 4050 [Tech. Section] ; E-mail: tech@bsi.gov.in

DO. No.: BSI – 8/1/PA/2019 / 1536

Date: 06.11.2025

Respected Sir,

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 October, 2025.

Department: Botanical Survey of India

Important policy decisions taken, Major achievements during the month:

Scientists of BSI have described **four (04) taxa** as New to Science from India. Besides, Scientists of BSI have reported **fourteen (14) taxa** as new additions to the different areas and states of India (Annexure II). Further, Scientists of BSI have also rediscovered *Hypotrachyna neodissecta* (Hale) Hale from Kerala, India; *Myelochroa radiculata* (Kurok.) Divakar & A. Crespo and *Relicina dahlii* (Hale) Kirika, Divakar & Lumbsch from Tamil Nadu, India after 50 years.

Scientists of BSI conducted 7 field / local tours and collected 326 field nos. of specimens. BSI prepared metadata of 3001 herbarium specimens. During this month, 6,70,930 visitors referred the official websites of BSI (2,26,250 visitors referred official website, 3,12,419 visitors referred archives, and 1,32,261 visitors visited Indian Virtual Herbarium). Besides, 930 students / visitors visited the gardens and herbaria of BSI, and generated the revenue of about Rs. 51,648 during this month.

Important events / programs organized / attended:

1. Botanical Survey of India and all its Regional Centres organized a massive cleaning drive under the ongoing Swachhta Hi Seva campaign on the occasion of the 156th Birth Anniversary of the Father of the Nation, Mahatma Gandhi on 2nd October, 2025.
2. Botanical Survey of India organized a Heads of Offices meeting at the Central National Herbarium, Howrah on 6th October, 2025 under the esteemed chairmanship of Dr. Kanad Das, Director, BSI, to comprehensively review and evaluate the progress of the Department's Annual Research Programmes. The meeting was attended by 16 Heads of Offices and Unit Heads representing various regional centres and establishments of the BSI across the country.
3. Dr. Kanad Das, Director, Botanical Survey of India attended the 9th International Conference on Ecotoxicology and Environmental Sciences (ICEES–2025) as a Chief Guest at its Inaugural Session at St. Xavier's College (Autonomous), Kolkata held during 10th – 11th October, 2025. He also attended a panel discussion on "The Way Forward – Reforms needed to Enhance Ease of Doing R&D" at the National Workshop on 'Ease of Doing Research & Development for Accelerating Scientific Growth of the States/UTs' jointly organised by NITI Aayog and IIT Guwahati from 15th–16th October 2025.
4. Dr. S. S. Dash, Scientist-F & In-charge, Technical Section, BSI-Headquarters represented the Botanical Survey of India (BSI) as a part of the delegation at the IUCN World Conservation Congress 2025 at Abu Dhabi emphasizing India's commitment to scientific documentation and evidence-based conservation as India launched its National Red List Roadmap and Vision 2025–2030, a landmark step toward a comprehensive, science-based framework for assessing and conserving the nation's rich biodiversity during 8th – 16th October, 2025.
5. Dr. Rajiv Gogoi, Scientist F & HoO, BSI-Sikkim Himalayan Regional Centre, Gangtok received "Dr. Lily Majinder Barua Memorial Scientist Award, 2024 from the Botanical Society of Assam on 17th October 2025 for his outstanding contribution in plant classification (Plant Taxonomy).
6. Shri Arup Kumar Bhattacharya, Deputy Secretary, Ministry of Environment, Forest and Climate Change (MoEF&CC), New Delhi visited the Botanical Survey of India, Headquarters, Kolkata on 16th October 2025 as a part of the ongoing Swachhta Campaign 5.0, to review the implementation of the campaign.
7. A team of 9 members (including Scientists and scientific staff) from Botanical Survey of India are participating in the Kundao Tso Trek from 26th October to 7th November 2025 along the High Ridge Border Area, Anjaw District,

- Arunachal Pradesh to commemorate the valor and supreme sacrifice of our Brave hearted in the 1962 Battle of Walong organized by the ADGPI - Indian Army (82 Mountain Brigade Headquarters).
8. The Vigilance Awareness Week 2025 was observed with the theme Preventive Vigilance by all the officials and staff of BSI Headquarters, Kolkata on 28th October 2025 by taking the Integrity pledge. The pledge was administered in the presence of Dr. Kanad Das, Director, Botanical Survey of India, inspiring everyone to uphold honesty and integrity in all spheres of work.

During this month 40 Publications including 38 Research Papers and 2 book chapters were published by BSI scientists in International and National journals of repute apart from participating in scientific lectures and publishing seminar abstracts and 2 Book chapters (*Annexure 1*).

1. Important policy matter held up on account of prolonged inter-ministerial consultations: NIL
2. No. of cases of 'Sanction for prosecution' pending for more than 3 months: NIL
3. Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the government: NIL
4. Status of Rationalization of Autonomous Bodies:-NA-
5. Information on the specific steps taken for utilization of the space technology based tools and applications in governance and development: Inputs on Leveraging Space Technology & Application for Viksit Bharat 2047 were provided by BSI to the Ministry
6. Vacancy position of senior level appointments in the Ministry/ Department, including Autonomous Bodies/ PSUs: Communicated to the Ministry separately.
7. List of cases in which ACC directions have not been complied with: NIL

With regards,

Sincerely yours,



(J. Jayanthi)
Director (I/C)

To,

Shri. Ved Prakash Mishra, JS, (CS-II), MoEF&CC, New Delhi – 3

PUBLICATION OCTOBER 2025

1. ARI, V.H., H.J. NOLTIE, , H. TAG, AND K. A. A. KABEER. 2025. Typification, distribution and morphology of the Sino-Himalayan *Agrostisbrachiata* Munro ex Hook.f. *Kew Bull.* <https://doi.org/10.1007/s12225-025-10291-y>
2. BHAGURE, P., DALAVI, J. AND KAMBLE, M.Y. 2025. On the occurrence of creeping *Strobilanthes* (*Strobilanthesreptans*) in peninsular India. *Nelumbo* 67(1): 146–147. <https://doi.org/10.20324/nelumbo/v67/2025/173423>
3. BHATTACHARYYA, S., S. PATIL AND S.K. SINGH. 2025. *Caraganasericophylla*, a replacement name for *Caraganaspinosissima* (Fabaceae). *Phytotaxa* 718(4): 298–300
4. CHOWLU, K., A. SHENOY, A. RAY, K.A.A. KABEER AND S. BORAH. 2025. *Impatiens rajibiana*(Balsaminaceae): a new species from Arunachal Pradesh, India. *Nelumbo* 67 (1): 10-16.
5. DATTA, S., A. BOSE, M.E. HEMBROM AND K. DAS. 2025. Taxonomic and molecular characterization of two new species of *Auricularia* from tropical India. *Nelumbo* 67 (1): 1 – 9.
6. GHOSH, J., M. BHAUMIK AND P. BHANDARI. 2025. Typification of Three Names of *Bupleurum* (Apiaceae), *B. gracillimum*, *B. himalayense* and *B. hoffmeisteri* *J. Jap. Bot.* 100(5): 446–450. doi: <https://doi.org/10.51033/jjapbot.ID0310>
7. JAMBHEY S., T. HANIYA, KRISHNA CHOWLU, A. DAS, L. TOSSU, O. APANG AND H.B. ABO. 2024. *Hemipiliacalcolicola* (Orchidaceae), a new record to the flora of Arunachal Pradesh, India. *Ind. J. For.* 47(4), 286-287.
8. KUMAR, S., AND S. K. SINGH. 2025. The genus *Leptolejeunea* (Lejeuneaceae: Marchantiophyta) in India. *Nelumbo*. 67(1): 28-47.
9. KUMAR, S., D. SINGH AND D. K. SINGH. 2025. *Lopholejeuneaceylanica* (Marchantiophyta: Lejeuneaceae): An Addition to the Indian Bryoflora from Andaman & Nicobar Islands. *National Academy Science Letters*,4: 1-5.
10. MAJUMDAR, S., AND M.ANDDEY. 2025. Recent additions and taxonomic changes in the liverwort and hornwort flora of India. *Journal of Threatened Taxa* 17(9): 27544–27547.
11. MATHEW, G.N. AND JAGADEESH RAM T.A.M. (2025). Lichen family *Parmeliaceae* from the Agasthyamalai Biosphere Reserve including new record of 3 taxa each to India and States. *Nelumbo* 67(1): 17–27.
12. MURUGESAN, M., R. THARANI, V. ANUSUBA AND B. KARTHIK (2025). Taxonomy, distribution and typification of *Biophytumpolyphyllum* Munro ex Wight (Oxalidaceae). *Nelumbo* 67(1): 125–128.
13. PARIHAR, A. 2025. Morphological and Phylogenetic analysis of *Strobilomycesglabriceps* W.F. Chiu (Boletaceae) from Arunachal Pradesh, India. *KAVAKA* 61(3): 30-37. DOI:10.36460/Kavaka/61/3/2025/30-37.
14. PARIHAR, A. AND A. GHOSH. 2025. Taxonomic studies on two interesting species of *Auricularia* (Wood Ear Mushroom) from Arunachal Pradesh, India. *Mushroom Research* 34 (1): 1-6, 2025, DOI: <https://doi.org/10.36036/MR.34.1.2025.165139>.
15. PARIHAR, A. AND M. E. HEMBROM (2025). An annotated checklist of holotype specimens deposited in mycological section of Central National Herbarium (CAL), Howrah, India. *Mushroom Research* 34(1):1-6. DOI: <https://doi.org/10.36036/MR.34.1.2025.165139>.
16. PARIHAR, A. AND M. E. HEMBROM. 2025. An annotated checklist of holotype specimens deposited in mycological section of Central National Herbarium (CAL), Howrah, India. *Mushroom Research* 34 (1):7–24.

17. PARTHIBAN, A. AND L. RASINGAM. 2025. Notes on the taxonomy and distribution of *Rotalaritchiei* (Lythraceae) in India. *Nelumbo*, 67(1), 83–88. <https://doi.org/10.20324/nelumbo/v67/2025/173450>
18. PAUL, M., S.N. ALI AND D. SINGH. 2025. Two new reports of leafy Liverworts (*Radula & Dumort.*) from Nagaland, India. *Nelumbo* 16: 134-135.
19. PUROHIT C.S., A. KUMAR AND S. L. MEENA. 2025. A note on the extended distribution of an Endemic grass *Eragrostistremula* var. *gajanandii* (Poaceae) from Indian Desert and its IUCN Red List Assessment. *Phytotaxonomy*. 4(1): 01-07.
20. PUROHIT, C.S., A. KUMAR, S. L. MEENA. 2025. Desert species *Tribuluscistoides* (Zygophyllaceae), rediscovery in India after 150 years. *Turczaninowia*. 28, 3: 43–50.
21. PUROHIT, C.S., B.C. DEY, G.A. EKKA AND L.J. SINGH. 2025. A Note on Occurrence of *Alpinia zerumbet* (Zingiberaceae) from Campbell Bay, Andaman and Nicobar Islands, India. *International Journal on Emerging Technologies* 16(1): 54-56.
22. PUROHIT, C.S., B.C. DEY, L.J. SINGH AND C.P. VIVEK 2024. Role of ENM, GeoCAT and Arc-GIS software's in Conservation, Mapping and IUCN Assessments of threatened palms in Andaman and Nicobar Islands (ANI's), India. In: Eds. D, Giribabu, A.k. Bera, S.S. Rao and S.K. Srivastav. *Proceedings of the 43rd INCA International Conference, Jodhpur* (publication released in 2025). 155-180
23. PUROHIT, C.S., C.P. VIVEK AND B.C. DEY. 2025. Extended distribution of Threatened Endemic species, *Ceropegia andamanica* and its threat status assessment as per IUCN guidelines. *Nelumbo* 16: 67-72.
24. RASINGAM, L., P. HARIKRISHNA AND V. CHANDRA SEKHARA RAO. 2025. A new distributional record of *Fimbristylis adenolepis* J.Kern (Cyperaceae) in the Eastern Ghats biogeographic zone. *Nelumbo*, 67(1), 148–149. <https://doi.org/10.20324/nelumbo/v67/2025/173438>
25. REKHA, C., A. SUNDARAN, SUJANA, K.A. AND K.M. MANUDEV. 2025. *Tetrataenium manilalianum*, a new species of Apiaceae from the Western Ghats, Kerala, India. *Nordic Journal of Botany* (e04966).
26. SALAJA NANDAN RAY, ASIR BENNIAMIN, PRASAD KUMAR DASH, PRAKASH CHAND GONINEN AND SHASHI SOURAV HANSDA. 2025. Two new additions to the Fern and Fern allies of the state of Odisha, India, *Nelumbo* Vol 67 (1) 136-137)2025
27. SAMPATHKUMAR, M. R., K. AJITHKUMAR, S. MAHADEVAKUMAR, A. S. SAVITHA, K. N. AMRUTHESH, N. LAKSHMIDEVI. 2025. Morpho-cultural and molecular characterization based on multigene phylogeny of *Colletotrichum truncatum* associated with leaf blight disease of Linseed (*Linum usitatissimum* L.). *Physiological and Molecular Plant Pathology*, 140: 102967. <https://doi.org/10.1016/j.pmpp.2025.102967>.
28. SARAVANAN, T.S. AND S. KALIAMOORTHY. 2025. *Achimenes* Pers. (Gesneriaceae): A new generic record for Tamil Nadu, India. *Nelumbo* 67(1): 144–145.
29. SEAL, TAPAN, KAUSIK CHAUDHURI AND BASUNDHARA PILLAI. 2025. Phenolic and antioxidant alterations in wild edibles under different cooking methods. *International Journal of Pharmacy and Pharmaceutical Sciences* 17 (10): 15-22
30. SHERPA N., S. MANGAR, B. CHETTRI, G. CHHETRI, J.H. FRANKLIN BENJAMIN AND R. GOGOI. 2025. Recollection of *Lysionotus kingii* (C.B. Clarke) Hilliard (Gesneriaceae) after 138 years, and its expanded description *Rheedea* 35(3): 138–144.
31. SHERPA, N., B. CHETTRI, S. MANGAR, G. CHHETRI AND R. GOGOI. 2025. *Eskemukerjea* Malick & Sengupta (Polygonaceae) - a new generic record for the flora of India. *Nelumbo* 67(1): 73–77

32. SHERPA, N., P.T. LEPCHA, G. CHHETRI AND R. GOGOI. 2025. *Begonia watsonii* (Begoniaceae): A New Species from Sikkim, India. *FeddesRepertorium* Vol. 136 DOI:10.1002/fedr.70032
33. SINGH R. K., R. K. ARIGELA, AND K. A. A. KABEER. 2025. Nomenclatural notes on two Indian endemic *Symplocos*(*Symplocaceae*). *Turczaninowia* 28, 3: 51–59.
34. SINGH. R.K., ARIGELA, R.K. AND KABEER, K.A.A. 2025. Nomenclatural notes on two Indian endemic *Symplocos* (*Symplocaceae*). *Turczaninowia* 28(3): 51–59. 2025 <https://www.doi.org/10.14258/turczaninowia.28.3.5>
35. SREEJA, K. AND K.A. SUJANA. 2025. Lectotypifications of five names in *Alstonia* (Apocynaceae). *Rheedeae*32(3): 145–149.
36. SRIDHAR, P., M.E. HEMBROM, A. GHOSH, P. PALANI AND K. DAS. 2024. *Mattirolomycesspinosus*: a new record for Indian mycobiota. *Nelumbo*66 (2): 29–35.
37. VERMA, ASHUTOSH KUMAR, SANJAY MISHRA, B. LAKSHMANUDU AND O. N. MAURYA.2025. *RuelliaPseudopatula*: An Addition to Madhya Pradesh Flora FromKuno National Park. *Journal of Plant Development Sciences* Vol. 17(9): 375–377.
38. WEI, D., K.D. HYDE, R. JEEWON, S.C. KARUNARATHNA, H. ZHANG, W. ROSSI,, S. MAHADEVAKUMAR, *et al.* 2025. Fungal diversity notes 2017–2122: taxonomic and phylogenetic contributions to freshwater fungi and other fungal taxa. *Fungal Diversity*<https://doi.org/10.1007/s13225-025-00560-3>

BOOK CHAPTER:

1. BHAKTA, S. AND S.K. DAS 2025. Terrestrial diatoms as potential indicators of the impacts of climate change. *In*: Barathan, B.P., Velupillai, V., Perumal, S. & Kannan, K. (eds.) *Navigating climate change: Impacts on biodiversity and ecosystem resilience. Sustainable Development and Biodiversity*, Vol. 42, Springer, Singapore, pp. 315–332.
2. GUPTA, P. 2025. *Epiphytic Algae of AJC Bose Indian Botanic Garden*. Botanical Survey of India pp 110 (e- Book).

IUCN ASSESMENT:

1. BENNIAMIN A., PANDEY, S. & MONDAL, R. 2025. *Elaphoglossumstigmatolepis*. The IUCN Red List of Threatened Species 2025
2. BENNIAMIN A., MONDAL, R. & PANDEY, S. 2025. *Trichomanesexiguum*. The IUCN Red List of Threatened Species 2025:
3. BENNIAMIN A., PANDEY, S. & MONDAL, R. 2025. *Bolbitissemicordata*. The IUCN Red List of Threatened Species 2025

NEW TO SCIENCE (OCTOBER, 2025)

1. *Impatiens rajibiana* Chowlu, Borah, & A. Shenoy (Balsaminaceae): a new species from Arunachal Pradesh
2. *Auricularia andamanica* Su. Datta & K. Das (Auriculariaceae, Basidiomycota) from Andaman and Nicobar Islands
3. *Auricularia tropica* Su. Datta & K. Das (Auriculariaceae, Basidiomycota) from West Bengal
4. *Tetrataenium manilalianum* C. Rekha, Amruth., Manudev & Sujana (Apiaceae) from the Western Ghats.

NEW RECORDS (OCTOBER 2025)

1. *Hemipiliacalcicola* (Orchidaceae), a new record to the flora of Arunachal Pradesh, India.
2. *Lopholejeunea ceylanica* (Marchantiophyta: Lejeuneaceae): An Addition to the Indian Bryoflora from Andaman & Nicobar Islands.
3. *Bulbothrix cinerea* Marcelli & Kalb (Parmeliaceae) from India
4. *Hypotrachyna majoris* (Vain.) Hale (Parmeliaceae) from India
5. *Parmotrema mordenii* (Hale) Hale (Parmeliaceae) from India
6. *Radula auriculata* Steph. New reports of leafy Liverworts (Radula Dumort.) from Nagaland, India.
7. *Radula stenocalyx* Mont. New reports of leafy Liverworts (Radula Dumort.) from Nagaland, India.
8. *Fimbristylis adenolepis* J. Kern (Cyperaceae) A new distributional record from the Eastern Ghats biogeographic zone.
9. *Achimenes* Pers. (Gesneriaceae): A new generic record for Tamil Nadu, India.
10. *Eskemukerjea* Malick & Sengupta (Polygonaceae) - a new generic record for the flora of India.
11. *Mattirolomy cespinosus*: a new record for Indian mycobiota.
12. *Ruellia pseudopatula*: An Addition to Madhya Pradesh
13. *Asplenium phyllitidis* D. Don from the Similipal Biosphere Reserve
14. *Haplopteris elongata* (Sw.) E.H. Crane from the Similipal Biosphere Reserve