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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 /1430

Date: 31.10.2023

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 the following major achievements of Botanical Survey of India for the month of **October, 2023**.

Department: Botanical Survey of India

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

Scientists of BSI reported five new addition viz. *Flemingia lineata* Aiton. and *Stylosanthus scabra* Vogel to the flora of Andaman and Nicobar Islands, India; *Strobilanthes sunhangii* T.Deng, J.T.Chen & Y.F.Deng to the flora of Arunachal Pradesh; *Pancratium verecundum* Aiton (Amaryllidaceae) and *Tripogon bromoides* var. *anantaswamianus* (Sreek., V.J. Nair & N.C. Nair) Sang. Dey & Prasanna (Poaceae) to the Flora of Andhra Pradesh. Also, one taxon reported as new distributional Record for Eastern India viz. *Crotalaria medicaginea* var. *neglecta* (Wight & Arn.) Baker (Fabaceae: Papilionoideae).

Scientists of BSI conducted 17 field / local tours and 1 Herbarium Consultation Tours and collected 1032 field nos. of specimens. Towards digitization, BSI completed metadata of 1686 herbarium specimens. During this month, 3,28,463 visitors visited the official websites of BSI (152975 visitors referred BSI official website, 75850 visitors referred BSI archives, and 99638 visitors visited the Indian Virtual Herbarium).

Important events / programmes organized / attended:

1. On the call of Honorable Prime Minister of India, 3,606 persons under the regional centers and unit offices of Botanical Survey of India, participated in the organized "Mega Cleaning Drive" under the "Swachhata-Hi-Sewa" cleanliness campaign on 1st October 2023, aiming to generate Jan Andolan through community participation, provide impetus on the implementation of the Swachh Bharat Abhiyan, reinforce the concept of sanitation as everyone's business, and serve as a prelude for the Swachh Bharat Diwas (2nd October) with nationwide participation. Total area cleaned was 14 km Road & 22.2 hectare area and the garbage disposed is around 28.5 tons.
2. BSI, APRC, Itanagar organized workshop at Namsai district on 'Expansion of skill development in interior villages of Arunachal Pradesh for alternative Livelihood for Socio-Economic upliftment' on 3rd & 4th October 2023 in collaboration with Centre for Earth Sciences & Himalayan Studies.
3. Botanical Survey of India and BSI - EIACP PC RP conducted sensitization workshop on Sustainable Development and Climate Change under the Mission LiFE initiative at Kendriya Vidyalaya Ballygunge Kolkata on 17 October 2023. On this occasion Scientists of BSI delivered a talk on 'Floral Diversity- Conservation & Sustainable Utilization' and administered 'Mission LiFE' pledge to all participants.
4. Vigilance Awareness week is being observed in all our Offices from 30th October 2023 and more than 1000 persons participated in the Integrity Pledge ceremony.
5. Observed Rashtriya Ekta Diwas 2023 and organized, "Run for Unity" at all the offices of BSI and its regional centers on 31st October, 2023 where more than 1000 people participated.
6. Two Administrative Officer posts got filled-up by Promotion at BSI. During this month 28 research publications and 1 book chapter 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):** Altogether 16 events under outreach activities, regular cleaning drives and public awareness campaigns were 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:** Communicated in the Ministry separately.
9. **List of cases in which ACC directions have not been complied with: NIL**

With regards,

Sincerely yours,

A. A. MAO
31/10/2023

To

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



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LIST OF PUBLICATIONS FOR OCTOBER, 2023

1. BERA, I., I.K. NIDHIN, M.E. HEMBROM, K. DAS AND I. CHOTTOPADHYAYK 2023. Metagenomics offers insights into the rhizospheric bacterial diversity of mushrooms from a tropical forest and temperate forest of India. *Ecological Genetics & Genomics*. <https://doi.org/10.1016/j.egg.2023.100203>
2. BHATTACHARJEE, A., BANDYOPADHYAY, S., CHAKRABORTY, K., SARDAR, S., MONDAL, S., CHAKRABORTY, S., AND S. SARKAR 2023. Nomenclatural consequences of some new combinations and replacement names in *Eulophia* (Orchidaceae: Eulophiinae). *Rheedea* 33(3): 116–117.
3. CHOWLU, KRISHNA, AKSHATH SHENOY AND KUMAR AMBRISH. 2023. *Strobilanthes sunhangii* (Acanthaceae) – a new addition to the flora of India from Arunachal Pradesh. *Rheedea*. 33 (3): 204-207.
4. DHOLE P.A., B.C. DEY, G.A. EKKA, A.M. KUMAR, S. MUTHUKUMAR, C.P. VIVEK, C.S. PUROHIT AND L.J. SINGH. 2023. Critically Endangered and narrowly endemic species of *Ceropegia* L. (Apocynaceae: Ceropegieae): Conservation Measures in Andaman & Nicobar Islands, India. *Journal of the Andaman Science Association* 28(1): 62 – 66.
5. GUPTA, PRATIBHA. 2023. First report of diversity of Cyanoprokaryotes and Algae from aero-terrestrial biofilms on Roxburgh building of Acharya Jagadish Chandra Bose Indian Botanic Garden, Howrah, West Bengal, India. *Trop. Plant Res.* 10(1): 1 - 10.
6. JALANDER, V. AND J. SWAMY. 2023. Taxonomic Studies on the Genus *Vigna* Savi (Fabaceae: Phascolaeae) in Telangana, India. *Journal of Experimental Agriculture International*. 45 (10): 172-203. DOI: 10.9734/JEAI/2023/v45i102212
7. JOSHI, BHAVANA., G. S. PANWAR AND S. K. SINGH. 2023. Ex-situ conservation of *Rhynchosyris retusa* (L.) Blume: an ornamental and medicinal species 2. *Phytotaxonomy*. (1): 23-26.
8. JOSHI, P., B. KUMAR, D.D. GIRI, R. TIWARI AND H. DWIVEDI. 2023. An enumeration of genus *Athyrium* Roth in Central India. *Phytotaxonomy*. 2(1): 35-41.
9. KUMAR, P., P. GHOSH, P.K. DEROLIYA AND S.K. SINGH. 2023. Asteraceae diversity in Rajaji National Park: some additions. *Phytotaxonomy* 2(1): 27-34.
10. MAO, A. A., S. K. SINGH., BRIJESH KUMAR, SAMEER PATIL AND K. N. GANDHI. 2023. A report on the fifth Botanical Nomenclature Course organised by the Botanical Survey of India at Dehradun. *J. Jap. Bot.* 98(5): 278-281.
11. MASTAKAR, V.K., J. SWAMY AND R.D. BARMAN. 2023. *Crotalaria medicaginea* var. *neglecta* (Fabaceae: Crotalariaeae): A New distributional Record for Eastern India. *Biological Forum – An International Journal*. 15(10): 07-08.
12. ROY RIJUPALIKA, VIKAS KUMAR, PANDAY S. & SUDIANSU SEKHAR DASH. 2023. Rediscovery and lectotypification of *Maesa kurzii* (Primulaceae), a poorly known species from India, *Rheedea* 33(3):211-214
13. RUBU RINYO, P. K. HUI, V. K. RAWAT, HUI TAG. 2023. Medicinal Plants used by the Apatani and tagin Tribes of Arunachal Pradesh for the treatment of stomach disorders. *Journal of Bioresources* 8 (2): 36-40. July to December.
14. SALEEM, FOUZIYA, LAL JI SINGH AND ARUN K. PANDEY. 2023. Two additions to the Legumes Flora of Andaman and Nicobar Islands, India. *Journal of the Andaman Science Association*. 28(1):40-46.
15. SINGH R.K. & KUMAR S. 2023. *Stachys lallamiana* R. Kr. Singh & Sanjeet Kumar, a replacement name for *S. malacophylla* Skan (Lamiaceae). *J. Biodivers. Conservation* 7 (3): 41-44.
16. SINGH R.K. 2023. A checklist of Indian *Hopea* (Dipterocarpaceae) with one new combination and lectotypifications. *J. Biodivers. Conservation* 7 (3): 26-40.
17. SINGH R.K. 2023. *Erigeron darwinii* R. Kr. Singh, a replacement name for *E. tenuifolius* Hook.f. (Asteraceae). *J. Biodivers. Conservation* 7 (3): 50-53.
18. SINGH R.K. 2023. *Senecio lallanii* nom. nov., a replacement name for *S. multicaulis* DC. (Asteraceae). *J. Biodivers. Conservation* 7 (4): 1-3.
19. SINGH R.K. 2023. *Stachys richardiana* nom. nov., a replacement name for *S. hypoleuca* (Lamiaceae). *Phytotaxa* 620 (2): 198-200. <https://doi.org/10.11646/phytotaxa.620.2.9>
20. SINGH R.K. A replacement name and lectotypifications in *Dicliptera* (Acanthaceae) of Myanmar. *Kew Bulletin* 73 (4): <https://doi.org/10.1007/s12225-023-10138-4>. 2023.
21. SINGH R.K. AND R.K. ARIGELA. 2023. A new combination in *Dichanthium* and second-step lectotypification of *Andropogon armatus* (Poaceae: Andropogoneae). *J. Biodivers. Conservation* 7 (4): 8-15.

22. SINGH R.K., C.S. REDDY AND S. KUMAR. 2023. A new combination in *Habenaria* (Orchidaceae). J. Biodivers. Conservation 7 (4): 16-18.
23. SINGH R.K., C.S. REDDY AND S. KUMAR. 2023. *Vernonia shankarii* R. Kr. Singh, Ch. S. Reddy & Sanjeet Kumar, a replacement name for *V. concinna* S. Moore (Asteraceae). J. Biodivers. Conservation 7 (4): 19-23.
24. SINGH R.K., R.K. ARIGELA AND S. KUMAR. 2023. *Crassocephalum vishwanathii* nom. nov., a replacement name for *C. sonchifolium* (Baker) Humbert (Asteraceae). J. Biodivers. Conservation 7 (4): 4-7.
25. SWAMY, J., T. SAHA, R. D. BARMAN AND D. SINGH. 2023. Taxonomy and Distributional Notes on the Striking, Flat Fruited Mango (*Mangifera camptosperma*) in India. Journal of Experimental Agriculture International. 45 (10): 144-147. 10.9734/jeai/2023/v45i102209
26. THAKUR R. AND K. AMBRISH. 2023. Floristic Diversity of Invasive weeds in Shirpur Taluka of Dhule District, Maharashtra State, India. IJARST.3(2): 445-453.
27. VARSHINI, G., K. NETHAJI, G. SUSMITHA, K. KALYANI BAI, P. RANJITHKUMAR, J. RANJANA AND L. RASINGAM. 2023. Two New Additions to the Flora of Andhra Pradesh, India. Journal of the Andaman Science Association. 28: 92-96.
28. YADAV, R.B., B. KUMAR AND LAL JI SINGH. 2023. Morpho-anatomical diversity of *Angiopteris crassipes* Wall ex C. Presl (Marrattiaceae). J. Andaman Sci. Assoc. 28(1): 47-61.

Book Chapters:

1. SINGH, D. 2023. Bryophytes of Larsemann Hills, East Antarctica and Future Prospects In: Pandey et al., Advances in remote sensing technology and the three poles, Edition 1 (John Willey & Sons Ltd.). Pp. 155-178.