

DO. No.: BSI – 8/1/PA/2019

Date: 01.09.2020

Dear Smt. Pandey,

In reply to OM no. 24011/08/2019 – GC dtd. 25.03.2019 regarding monthly DO letter from Secretary (E & F) to the Cabinet Secretary, I am furnishing herewith the following major achievements of Botanical Survey of India for the month of August, 2020.

Department: Botanical Survey of India

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

Scientists of BSI reported **1 novel plant species new to science** viz. *Dendrophthoe gamblei* (Loranthaceae) from the Peninsular India. Besides, they also reported **18 plant species** viz. *Gastrochilus affinis* (Orchidaceae), *Tarenna flava* (Rubiaceae), *Polyalthia longipedicellata* (Annonaceae), *Meistera newmanii* (Zingiberaceae), *Ipomoea parasitica* (Convolvulaceae), *Peristylus orbicularis* (Orchidaceae), *Ipomoea parasitica*, *Habenaria reniformis* (Orchidaceae), *Schonefeldia gracilis* (Poaceae), *Arthraxon hispidus* (Poaceae), *Jasminum roxburghianum*, *Kyllinga odorata* subsp. *Cylindrical*, *Lecanthus peduncularis*, *Neanotis calycina*, *Stylosanthes hamata*, *Tylophora fasciculata*, *Tripogon anantawamianus* and *Tripogon filiformis* (Poaceae) as new additions to various states of India.

Important meetings / programmes / lectures organized / attended delivered during the month:

- Director, BSI chaired a brainstorming session through video conference (VC) on Display Gardens with all the heads of offices of BSI on 04.08.2020 regarding display gardens to be established at BGIR, Noida.
- Director, BSI chaired a meeting through VC with towards the preparation of *Pteridophytic Flora of India*, on 12th, 18th and 20th August 2020.
- Director, BSI chaired a meeting through VC with BSI, SRC scientists in connection with the Flora of Kerala on 19th August 2020.
- Director, BSI, Dr. S.S. Dash, Scientist E and Dr. Harish Singh, Scientist E delivered invited lectures as resource persons in a national webinar on 'Frontiers of Biodiversity Conservation and Herbal Research' jointly organized by Botanical survey of India and CL Mahavidhyalaya, Haridwar on 09.08.2020. Dr. Puneet Kumar, Scientist C, Dr. S.K. Yadav, Botanist and Dr. P.A. Dhole, Bot. Asstt. were also participated the said webinar.
- Dr. Harish Singh, Scientist E served as a Resource Person for Panel discussion in a webinar on 'Relevance of Ethnobotany in Contemporary Socio-Economic Conditions' organized jointly by SKJ IOE and Jiwaji University Gwalior on 14.08.2020.
- Dr. Pratibha Gupta attended webinar on "Climate Variability & Change-Challenges for Disaster Risk Reduction in India" on 20.08.2020 organized and conducted by Indian Institute of Public Administration (IIPA), New Delhi.
- Dr. M. Palanisamy Scientist E attended a webinar on "Need of R&D for Scientific Validation of Traditional Herbal Medicines" Organized by the department of Botany, Arignar Anna Government Arts College Puducherry on 18.08.2020.
- Dr. A K Verma, Scientist C attended a webinar on "Breeding of Oilseeds: A Challenge for Self- Sufficiency" organized by Bihar Agricultural University, Sabour, Bhagalpur, Bihar, on 29.07.2020.
- Dr. Brijesh Kumar, Botanist attended a webinar on topic, "Diversity and distribution of Pteridophytes in India" organized by Department of Botany, Holy Cross College (Autonomous), Tiruchirappalli on 06.08.2020.
- Dr. G.P. Sinha, Scientist F, Dr. A.N. Shukla Scientist C attended 'Town Official Language Implementation committee (TOLIC) meeting at Allahabad on 28.07.2020.
- Dr. Sanjay Mishra, Scientist C & Dr. P. Harikrishna, Bot. Asstt. attended half yearly TOLIC online meeting hosted by CAZRI, Jodhpur on 18.08.2020.
- BSI, WRC, Pune developed a new garden phyto-display section called '*Phyto-Charactorium*' to serve as one-stop phyto-character display for visiting students and scholars.
- BSI, NRC, Dehradun observed its **foundation day** on 1st August 2020 by planting trees in the office premises.

Important publications:

1. AGRAWALA D.K., S. PANDEY AND M. BHAUMIK 2019. Extended distribution of *Peristylus orbicularis* (Orchidaceae) in Arunachal Pradesh, India. *Indian J. Forestry* 42(3): 255-258.
2. ANANTHA LAKSHMI M, V. SIVAKUMAR AND A. NICODEMUS 2019. Assessment of Variability in *Eucalyptus* germplasm using adult leaves and capsules. *J. Econ. Taxon. Bot.* 43(1-4). 30-37.



3. ARIGELA, R.K., L. PARAMESH AND R.K. SINGH 2020. *Ipomoea parasitica* (Kunth) G. Don, a new record to the flora of Telangana State, India and typification of the name *Convolvulus parasiticus* Kunth. *Indian Forester* 146(48): 775–777.
4. ARISDASON, W. 2020. Obituary: Dr. P. Lakshminarasimhan (28.08.1959–15.07.2020). *Nelumbo* 62(1): 103–106.
5. ARUMUGAM S, G. GNANASEKARAN, K.A.A. KABEER, G.V.S. MURTHY AND V.J. NAIR 2020. Caryopses Morphology of *Sporobolus* (Poaceae: Eragrostidae: Sporobolinae) in India and Its Taxonomic Significance. *Nelumbo* 62 (1): 16-26.
6. BHATTACHARJEE, A., S. DEY AND S. BANDYOPADHYAY 2020. (012) Proposal to modify Article 9.12. *Taxon* 69(3): 630.
7. CHAKRABARTY, T., S. PANDAY AND A. KUMAR 2020. Reinstatement of two varieties of *Trigonostemon viridissimus* and seven superfluous lectotypifications in Indo-Burmese *Trigonostemon* (Euphorbiaceae). *J. Asia-Pacific Biodivers.* <https://doi.org/10.1016/j.japb.2020.08.007>
8. DEORI, C. 2020. Obituary, Tynjuh Mawbor Hynniewta. *Nelumbo* 62(1): 107-110.
9. DWIVEDI, M.D., S. CHAUHAN, A. SRIVASTAVA, P. S. MISHRA, S.J. THAKUR AND A.N. SHUKLA 2020. Systematic position and habitat distribution modeling for reintroduction of critically endangered medicinal plant *Pittosporum eriocarpum* Royle (Pittosporaceae). *Pleione* 14(1): 109-120.
10. JALAL, J.S., I. D. RAI, A. BHATTACHARJEE AND G. SINGH 2020. New Distributional Record of *Gastrochilus affinis* (Orchidaceae) from Western Himalaya with Notes on a new synonym and typification. *Nelumbo* 62 (1): 12-15.
11. JOSEPH S., G.P. SINHA AND S. NAYAKA 2020. Taxonomic status of the genus *Schismatomma* (lichenized Ascomycota: Arthoniales) in India. *Lichenologist* 52: 329–331.
12. KAMBLE, M.Y. AND C.P. VIVEK 2019. Grasses of six Wildlife Sanctuaries in North Andaman Islands, India. 2019. *J. Non-Timber Forest Prod.*, 26(4): 167–174.
13. KHANNA, K.K., A.P. TIWARI, AND A.N. SHUKLA 2020. Six taxa of angiosperms as new distributional records for Chhattisgarh, India. *Intern. J. New Biolo. Report.* 220-222.
14. KRISHNA, G., A. BHATTACHARJEE, S. BANDYOPADHYAY AND M. SANJAPPA 2020. (021) Proposal to amend Recommendation 46C.2. *Taxon* 69(3): 636.
15. KUMAR, ANAND 2020. Notes on the typification of five names in Lauraceae. *Thai Forest Bull., Bot.* 48(2): 142–144.
16. KUMAR, A., O.N. MAURYA AND S. BANDYOPADHYAY 2020. Proposal to add a new Example after Article 11.4. *Taxon*. 69(3): 633.
17. MAHESH, Y., L. RASINGAM AND M.V. RAMANA 2020. *Habenaria reniformis* (D. Don) Hook. f. (Orchidaceae) - A New Distributional Record for Andhra Pradesh, *Nelumbo* 62(1): 57–59.
18. MISHRA, S., J. S. JALAL, C.P. VIVEK, G. A. EKKA, D.K. AGRAWALA AND L.J. SINGH 2020. A Note on the Occurrence of *Luisia unguiculata* (Orchidaceae) in Andaman and Nicobar Islands, India. *Nelumbo* 62 (1): 50-53.
19. MURUGAN, P., M. SULAIMAN AND B. PAUL, 2020. "*Tarenna flava* Alston (Rubiaceae): A New Record for Kerala from Agasthyamalai Biosphere Reserve, Western Ghats, India". *Indian Forester* 146(8): 780-781.
20. PANWAR, G.S AND BHAVANA JOSHI 2020. Micro propagation of *Tricholepis roylei* Hook.f.- a point endemic species of the Western Himalaya. *J. Genetic Eng. Biotech.* 18(40): 1-8.
21. RASINGAM, L. AND K. KARTHIGEYAN 2020. *Ziziphus ridleyana*, a new name for *Ziziphus macrophylla* Ridl. (Rhamnaceae), *Phytotaxa* 454 (1): 071–072.
22. S. NAGARAJU, P.V. PRASANNA AND Y.V. RAO 2019. Two *Tripogon* species as additions to the grass flora of Telangana State, India. *J. Econ. Taxon. Bot.* 43 (1-4): 52–55.
23. SAMPATH KUMAR K, S. ARUMUGAM AND K. KATHIRESAN 2020. Current Taxonomic Status of Three Coastal Endemic Species of *Acacia* s.l. (Fabaceae: Mimosoideae) in Tamil Nadu, India. *Nelumbo* 62 (1): 4-11.
24. SANGITA DEY AND P.V. PRASANNA 2019. Taxonomic status of some recently described species *Tripogon* (Poaceae) from India. *J. Econ. Taxon. Bot.* 43 (1-4): 5–15.
25. SEAL, TAPAN 2020. Nutritive scenario of wild consumable plants of Meghalaya state in India together with heavy metals, anti-nutritional, vitamin and toxicity studies. *Res. J. Pharmacog. Phytochem.* 12(3):123-134.
26. SINGH, H., SINGH, J., PUNEET KUMAR., V. K. SINGHAL., B. S. KHOLIA AND L.M. TEWARI 2020. Chromosome count, male meiotic behaviour and pollen fertility analysis in *Agropyron thomsonii* Hook.f. and *Elymus nutans* Griseb. (Triticeae: Poaceae) from Western Himalaya, India. *Caryologia*. 73(2):89-98 (IF - 1.174)
27. SINGH, L.J., V. RANJAN, L. RASINGAM AND J. SWAMY 2020. A new species of genus *Dendrophthoe* Mart. (Loranthaceae-Loranthaceae) from the Peninsular India. *J. Asia-Pacific Biodiv.* 13: 487–493.
28. SINGH, S.K., T. PÓCS, D. SINGH AND S. KUMAR 2020. A synopsis of *Colura* (Dumort.) Dumort. (Marchantiophyta: Lejeuneaceae) in India. *Cryptog. Bryolog.* 41 (10): 111–129.

29. SUJANA K. A. AND R. G. VADHYAR 2019. Notes on distribution, conservation and pollen morphology of an endemic and threatened wild ginger. *J. Non-Timber Forest Prod.*, 26 (2):89-91.
30. SUJANA K. A. AND R. G. VADHYAR 2020. *Polyalthia longipedicellata* (Annonaceae): An addition to the flora of Tamil Nadu. *Indian Forester*, 146 (8):778-779.
31. SWAMY, J. AND S. NAGARAJU 2019. *Schonefeldia gracilis* (Poaceae: Chloridoideae): An addition to the flora of Telangana, India. *J. Econ. Taxon. Bot.* 43 (1-4): 56-57.
32. TIWARI, A.P., A.N. SHUKLA, K.K. KHANNA AND R.L.S. SIKARWAR 2020. Lectotypification of *Alysicarpus gracilis* (Papilionoideae: Leguminosae). *Phytotaxa* 449(2): 200-202. 2020.
33. VIVEK, C.P. S. MISHRA, L.J. SINGH AND G. A. EKKA, 2019. *Arthraxon hispidus* (Poaceae): A new record for Andaman and Nicobar Islands, India. *J. Econ. Taxon. Bot.* 4 (1-4): 58.

2. Important policy matter is held up on account of prolonged inter-ministerial consultation: Nil
3. Compliance of COS decisions: Nothing pending
4. No. of cases of 'Sanction for prosecution' pending for more than 3 months: Nil
5. Particulars of cases in which there has been a departure from the Transaction of Business Rules or established policy of the government: Nil
6. Status of implementation of e-governance: PFMS, CPGRAMS, e-Publications, GEM Portal, OJMS portal of Nelumbo etc., has already been implemented.
7. Details of cases in which ACC directions have not been complied with: Nil
8. Status of Public grievances:

No. of public grievances redressed during the month	No. of Public grievances pending at the end of month
1	1

9. Information on the specific steps taken by the ministry/department for utilization of the space technology based tools and applications in governance and development: NIL

With regards,

Sincerely yours,


01/09/2020
A. A. MAO

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