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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: 29.01.2021

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 **January, 2020**

Department: Botanical Survey of India

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

Scientists of BSI reported **one novel plant species as new to Science** viz. *Strobilanthes lakshminarasimhanii* (Acanthaceae) from the shola forests of Pushpagiri Wildlife Sanctuary in Western Ghats. Besides, **four taxa** viz. *Lactarius abieticola* (Russulaceae), *Apocopsis collinus* (Poaceae) have been reported as new addition to India while *Eulophia macrobulbon* (Orchidaceae) and *Cucumis sativus* forma *hardwickii* (Cucurbitaceae) have also been reported as new addition to the Flora of Manipur and Rajasthan states respectively.

Important events / programmes organized / attended:

- BSI, Deccan Regional Centre, Hyderabad organized a virtual international webinar on "International Code of Nomenclature (ICN) for Plants" on 6th January, 2021. Dr. K.N. Gandhi, Sr. Nomenclatural Registrar, Harvard Univ. Herbaria, USA served as resource person and 311 participants from all over India attended the programme.
- BSI, Sikkim Himalayan Regional Centre, Gangtok organized a virtual webinar series on "Science in Biologie Forest-Biologie Forest in science" on 8th January, 2021. Prof. (Dr.) Bogdan Jaroszewicz, Prof. & Director, Biologie Forest Geobotanical Station, Univ. of Warsaw served as resource person.
- Dr. K.N. Gandhi, Sr. Nomenclatural Registrar, Harvard Univ. Herbaria, USA served as resource person and 311 participants from all over India attended the programme.
- BSI, HAWHRC, Solan organized a virtual national webinar lecture series 5 on "Evolutionary play of Invasive species in a changing Himalayan theater" on 22th January, 2021.
- BSI, Northern Regional Centre, Dehradun inaugurated 6 month internship program for M.Sc. students on 25th January, 2021.
- BSI, Southern Regional Centre, Coimbatore organized a virtual webinar on "Green Walk-Plant Resources as Aid for Prevention of Covid-19" on 27th January, 2021. Dr. S. Ignacimuthu, S.J., Director, Xavier Research Foundation, St. Xavier's College, Palayamkottai served as resource person and 63 participants from all over India attended the webinar.

Important publications:

During this month, 22 research papers have been published by BSI scientists in various International and National Journals (**Annex. 1**).

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
0	0

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,

Yours Sincerely,

29/01/2021
(A. A. MAO)

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



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Important Research Publications

1. BANDYOPADHYAY S., A. BHATTACHARJEE AND M.N. MITTA. 2020. Marketing of achievements through fake awards – A ‘novel’ trend in modern academic and research systems. *Ann. Pl. Sci.* 9 (12): 4103–4104.
2. BENNIAMIN, A. AND M. SHUNMUGA SUNDARI. 2019. Diversity and distribution of the genus *Arachniodes* Blume (Dryopteridaceae) in North-East India, *Pleione* 13 (2) 236 – 246.
3. BENNIAMIN, A., M. SHUNMUGA SUNDARI, C. BAGATH SINGH AND D. JESUBALAN. 2020. Spore germination and early gametophyte development of an endemic fern *Elaphoglossum beddomei* Sledge. *Indian Fern J.* 37: 244 -249.
4. BERA, I., K. DAS, AND A. GHOSH. 2020. Morphological description and phylogenetic estimation of *Lactarius abieticola* (Russulaceae), a new record for Indian mycobiota. *Nelumbo* 62(2): 124–130.
5. BHATTACHARJEE B., P. LAKSHMINARASIMHAN, S.K. MUKHERJEE, S. KALIAMOORTHY AND A. BHATTACHARJEE 2020. Notes on the identity of *Vernonia shevaroyensis* (Asteraceae) and its neotypification. *Nelumbo* 62 (2): 148–153.
6. BISWA S., A. LOKHO AND P. LAKSHMINARASIMHAN 2020. Ethnobotanical study of Birhore Tribe in Koderma Wildlife Sancturay Jharkhand, India. *Adv. Plant Sciences* 33: 139–152.
7. CHAKRABARTY, T. AND G. KRISHNA 2020. Typification of eight accepted names and two synonyms in Indian Euphorbiaceae. *Nelumbo* 62(2): 161–172.
8. CHOWLU, K., A. N. RAO AND C. DEORI. 2020. Synopsis of *Eulophia* R. Br. (Orchidaceae) in Manipur (India) with a new distributional record to the state. *Pleione*. 14(2): 361-366.
9. GOGOI, R. AND N. SHERPA. 2020. Taxonomic identity of *Impatiens cathcartii* Hook.f. & *I. serratifolia* Hook.f. with notes on typification of both names. *Bio. Res. Con.* 59(2):1-8.
10. GOGOI, R., N. SHERPA, B.B.T. THAM, C. DEORI AND S. TALUKDAR. 2020. Recollection of *Impatiens angustiflora* (Balsaminaceae) and notes on its lectotypification. *Nelumbo* 62(2):154-160.
11. KRISHNA, G., A. BHATTACHARJEE AND K. KALIYAMURTHY 2020. *Hoya edeni* (Apocynaceae: Asclepiadoideae): Notes on its Overlooked First Drawing, Original Material at CAL and Etymology. *Nelumbo* 62(2): 92–196.
12. KUMAR, A. AND V. RANJAN 2020. Life Forms and Biological Spectrum of the Flora of Gorumara National Park, West Bengal, India. *Int. J. Adv. Res. Biol. Sci.* 7(11): 131–134.
13. KUMAR, A. AND V. RANJAN 2020. Wild edible plants of Gorumara National Park, Jalpaiguri, West Bengal. *Int. J. Adv. Res. Biol. Sci.* 7(12): 1–5.
14. KUMAR, ANAND, G. KRISHNA AND T. CHAKRABARTY 2020. Two new synonyms in Indian *Cryptocarya* (Lauraceae). *Nelumbo* 62(2): 173–177.
15. LAKRA, R. AND PUSHPA KUMARI 2020. *Apocopsis collinus* (Poaceae), a new record for India from Nicobar Islands, Andaman & Nicobar Islands. *Nelumbo* 62(2): 121–123.
16. MAITY R. AND S.S. DASH, 2020. Lectotypification of Seven Names in Genus *Phlogacanthus* (Acanthaceae). *Nelumbo* 62(2): 266-277.
17. PAGAG, K., D. VIJAYAN AND A. A. MAO. 2020. Phytochemical studies of leaves and roots (*In vitro*) of endemic orchid *Arachnis senapatiana* (Phukan & A. A. Mao) Kocyan & Schuiteman. *J. Pharmacog. Phytochem.* 9(6): 1465-1467.

18. PATIL, S. 2020. *Strobilanthes lakshminarasimhanii* (Acanthaceae): A new species from Kodagu, Karnataka. *Nelumbo* 62(2): 113-116.
19. PUROHIT C.S., JAIN K. AND MERUSIKHA. 2020. *Cucumis sativus* forma *hardwickii* – New Record for Rajasthan with status of family Cucurbitaceae of Todgarh-Raoli wildlife sanctuary, Rajasthan. *Species*, 21(68): 410 – 423.
20. SHALINI S., SUJANA K.A., ARISDASON W. & D. MAITY. 2020. A new species of *Argyreia* (Convolvulaceae) from the southern Western Ghats, Tamil Nadu, India. *Rheedea*, 30(4): 444-449.
21. SHARMA, R., KULDIP S. DOGRA AND KUMAR AMBRISH, 2020. Traditional Knowledge of Medicinal Plants used in the rural areas of Solan District, Himachal Pradesh. *J. Non-Timber Forest Prod.*, 27(2):104-112.
22. YADAV, S.K. 2020. Medicinal prospective of seaweed resources in India: A review. *J. Pharmacog. Phytochem.* 9(6): 1384-1390.