

# BSI NEWSLETTER

The monthly electronic newsletter of Botanical Survey of India

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**Botanical Survey of India**  
CGO Complex, 3<sup>rd</sup> MSO Building, Block – F  
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Kolkata – 700 064



## HEAD QUARTERS, KOLKATA

For the projects, “Hot spring Algae of Rajgir and Mungar, Bihar”, “Studies on Wild Mushrooms of Sikkim”, “Wood rotting fungi of Rajmahal hills”, “Bryoflora of Jharkhand” and “Liverworts and Hornworts Flora of Darjeeling District, West Bengal” identification, drawings, descriptions and microphotographs were made by the scientific officials of the Cryptogamic Unit. Dr. M.E. Hembrom, Botanist prepared ArcGIS map for the species *Tinctoporellus epimiltinus* (Berk. & Broome) Ryvarden (Polyporaceae).

Dr. Devendra Singh, Scientist ‘D’ prepared the camera lucida illustration and photoplate of *Cololejeunea mahabaleshwariensis* sp. nov. (S.K. Singh 135176) collected from Lingamala falls, Maharashtra. Dr. Singh also prepared the herbarium label of 27 liverworts specimens and incorporated in the general herbarium of Bryophytes submitted by Ms. Sumira Mukhia from North Bengal University collected from Darjeeling.

Sri Arvind Parihar, Bot. Asst. accessioned and incorporated four type specimens received from Upendra Singh, H.N.B. Garhwal University and Prof. P. Manimohan, Dept. of Botany, University of Calicut, Kerala. The details of the specimens are *Hericium rajendrae* U. Singh & K. Das (Accession no. CAL 1717) – Holotype and (Accession no. CAL 1718) – Paratype, *Anupama indica* K.N.A. Raj, K.P.D. Latha & Manim. (Accession no. CAL 1725) – Holotype, *Hygrocybe indica* K.P.D. Latha & Manim. (Accession no. CAL 1726) – Holotype.

### Public service rendered

Dr. A.B.D. Selvam, Scientist ‘D’ pharmacognostically studied and authenticated two plant samples: *Piper nigrum* L. – fruits and *Trachyspermum ammi* (L.) Sprague – seeds, which were received from IIT, Dhanbad, Jharkhand.

Dr. Selvam pharmacognostically also studied and authenticated ten plant samples (as detailed below), which were received from Sastra deemed University, Tamil Nadu:

*Acorus calamus* L. – dried rhizome

*Alpinia calcarata* (Haw.) Roscoe – dried Rhizome

*Allium sativum* L. – bulb

*Embelia ribes* Burm.f. – fruits

*Foeniculum vulgare* Mill. – seeds

*Myristica fragrans* Houtt. – seeds

*Madhuca longifolia* (J.Koenig ex L.) J.F.Macbr. – leaves

*Piper longum* L. – fruits

*Prosopis cineraria* (L.) Druce – leaves

*Solanum torvum* Sw. – fruits

### Function/conference/meeting attended

Scientific officials of Headquarters, BSI attended the World Ozone Day celebration at Central National Herbarium on 15.09.2018.

Dr. Selvam attended a meeting of the Sub-committee constituted to make amendments in the Wildlife (Protection) Act, 1972, held at Narmadha Hall, MoEF & CC, New Delhi on 13.09.2018 and 14.09.2018 along with Dr. P.V. Prasanna, Scientist ‘F’ & HoO, CNH, BSI.

Sri Arvind Parihar attended one day ESRI User Conference on ArcGIS software at Kolkata.

### Publication

Parihar, A., Hembrom, M.E., Vizzini, A. and Das, K. 2018. A new species of *Boletellus* (Boletaceae, Basidiomycota) from tropical India. *Nordic J. Bot.* DOI.org/10.1111/njb.02089

## CENTRAL NATIONAL HERBARIUM, HOWRAH

Dr. Vinay Ranjan, Scientist 'D' and Sri Anant Kumar, Bot. Asst. identified 10 field numbers and 11 species collected from Neora Valley National Park, Darjeeling district, West Bengal.

Dr. O.N. Maurya, Scientist 'C' identified two species collected from Udaipur Wildlife Sanctuary, West Champaran, Bihar.

Sri P.P. Ghoshal, Botanist identified 12 specimens collected from of Betla National park, Latehar, Jharkhand.

### Public Service rendered

Dr. Subir Bandyopadhyay, Scientist 'B' provided information in PDF of 315 pages from *Blumea* volumes 23 (1976), 24 (1978), 34 (1989), 35 (1991) and 41 (1996) on taxonomic studies in Rubiaceae and of five pages [Deb, D.B. (1970) to Dr. Mohan Gangopadhyay.

Dr. Bandyopadhyay provided information about new taxa of *Rubia* L. (Rubiaceae). *Bulletin of the Botanical Society of Bengal* 24: 163–167 to Mr. Md. Danish Hussian, National Botanical Research Institute, Lucknow.

Dr. Subir Bandyopadhyay reviewed a manuscript for *Journal of Economic and Taxonomic Botany*; a manuscript on typification of two names in Elaeocarpaceae received from Dr. Milind M. Sardesai, Department of Botany, Savitribai Phule Pune University, Pune, Maharashtra.

Dr. V. Sampath Kumar, Scientist 'D' provided information to Dr. Ian Turner, Singapore Botanical Liaison Officer, RBG, Kew for Rubiaceae specimens availability at CAL, which were searched in general as well as type section and their availability were informed accordingly: *Lasianthus densifolius* var. *calycinus* Ridley 5679; *Lasianthus griffithii* var. *latibracteata* Ridley 10196, Ridley 9528, Scortechini s.n. *Lasianthus flavicans* Ridley 4394, Ridley 6927, Scortechinii s.n., Ridley 2223, King's collector 10974; *Lasianthus flavicans* var. *subglabra* Curtis 1334, Ridley 4895; *Lasianthus ridleyi* Ridley 3620a *Lasianthus singaporensis* Ridley 9095.

Dr. K. Karthigeyan, Scientist 'D' reviewed a manuscript for the journal *Rheedea*.

### Workshop/meeting attended/prgramme organized/lecture delivered

Sri Vijay Kumar Masatkar attended a workshop as resource person and delivered a lecture on "Plant Identification and Herbarium Techniques" on 18th and 19th September, 2018 at Govt. Sarojani Noidu P.G. (Autonomous) College, Bhopal, Madhya Pradesh.

Hindi Divas Programmes were organised by Central National Herbarium from 13th to 14th September 2018.

World Ozone Day celebration was observed in Central National Herbarium on 15.09.2018.

A lecture was organized on 'Biology of insectivorous plants' by Dr. C. Sathish Kumar, former Scientist, JNTBGRI, Palode, Trivandrum in CNH at Committee Room on 26.09.2018.

Dr. P.V. Prasanna, Scientist 'F' & HoO attended a meeting of the Sub-committee constituted to make amendments in the Wildlife (Protection) Act, 1972, held at Narmadha Hall, MoEF & CC, New Delhi on 13.09.2018 and 14.09.2018.

### Visitors/students

Dr. C. Kalidas, Scientist and Ms. Madhusmita Mallia, JRF, Regional Plant Resource Centre (RPRC), Bhubaneswar in consultation of general and type specimens of Solanaceae from 3rd to 18th September 2018.

Md. Shameer Cheriyaath, Research Scholar, Srinivayasa N.S.S. College, Kerala on 18.09.2018.

Mr. P.J. Michael, Deputy secretary, MoEF & CC, New Delhi on 20.09.2018.

Dr. C. Satish Kumar, former Scientist, JNTBGRI, Palode, Trivandrum consulted type on 28.09.2018.

### Publications

Bandyopadhyay, S. and Bhattacharjee, A. 2018. Request to avoid unpronounceable epithets for new plant names. *Int. J. Adv. Res. Bot.* 4(2): 6–7.

Bandyopadhyay, S. and Bhattacharjee, A. 2018. Doctoral studies carried out at Botanical Survey of India – Part III. *Int. J. Adv. Res. Bot.* 4(2): 14–19.

Karthigeyan, K. and Murugan, P. 2018. Typification of *Lophopogon tridentatus*, an Indian endemic (Poaceae, Andropogoneae). *Phytotaxa* 367(1): 97 – 99.

– Dr. P.V. Prasanna  
Scientist 'F' & HoO

## INDUSTRIAL SECTION INDIAN MUSEUM, KOLKATA

The botanical paintings by Roxburgh are being interpreted with updated nomenclature. In this project, following 14 species were interpreted *Panicum aegyptiacum* Retz., *P. fluitans* Retz., *Ischaemum rugosum* Salisb., *Eleusine coracana* (L.) Gaertn., *E. stricta* Roxb., *Apluda aristata* L., *A. geniculata* Roxb., *Andropogon serratus* Retz., *A. tenellus* Roxb., *Coix lacryma* L., *Anthistiria cymbaria* (L.) Roxb., *A. heteroclita* Roxb., *Anthistiria polystachya* Roxb. and *A. prostrata* (L.) Willd.

### Database of Herbarium Specimens

As a part of preparing a database of herbarium specimens at BSIS, 205 numbers of Dicot herbarium specimens were listed and documented.

### Public service rendered

Under the Narcotic Drugs & Psychotropic Substances (NDPS) Act, one samples received from West Bengal Police were identified.

### Awareness programme/workshop/seminar organized/attended

A group of trainees from Archaeological Survey of India (Indian Museum) visited Botanical Gallery on 12.09.2018.

World Ozone Day 2018 organised at CNH, BSI, Howrah on 15.09.2018 was attended by Dr. Manas Bhaumik, Scientist 'D' & HoO.



Photo: ISIM

Trainees from Archaeological Survey of India in a open discussion with Dr. A.K. Sahoo at ISIM, BSI, Kolkata



Dr. Manas Bhaumik at World Ozone Day celebration at CNH, BSI, Howrah on 15.09.2018

Mr. P.J. Michael, Deputy Secretary, MoEF&CC, New Delhi visited Botanical Galleries on 20.09.2018. Hindi Divas Samaroha 2018 was observed on 20.09.2018.



Photo: ISIM

Mr. P.J. Michael, Deputy Secretary, MOEF & CC, New Delhi visiting Botanical Gallery at ISIM, BSI, Kolkata



Officials of ISIM participating in Hindi Divas Samaroha on 20.09.2018 at ISIM, BSI, Kolkata



Photo: ISIM

**Ms. Sudeshna Datta delivering a lecture on Plants alternatives to Plastics to the visiting students**



**Dr. M. Bhaumik explaining to the students of Dum Dum Sarvodaya Vidhyapith visiting Hooker's exhibition**



Photo: ISIM

**Ms. S. Datta explaining about miscellaneous collections to the students during their visit to ISIM**



**Sri B.C. Dey explaining about the farming and industrialization to the students**



Photo: ISIM

**Head of Offices Meeting of Botanical Survey of India at ISIM Committee Room**

Two lectures were organized with 44 students from Dum Dum Sarvodaya Vidyapith, Kolkata and 46 students from Sarada Prasad Institution on 08.09.2018 and 22.09.2018 respectively under Environmental Education Awareness Programme (EEAP). The Botanical Gallery and Gallery on Botanical History also visited by the school students and they were guided by Ms. Sudeshna Datta, Sri B.C. Dey and Sri S.K. Sharma. A lecture on "Selected medicinal plants for home growing and household use" by Dr. P.R. Sur, Retired Scientist, BSI on 08.09.2018 and "Plants an Alternative to Plastic" was delivered by Ms. Sudeshna Datta on 22.09.2018.

Ms. Bhanupriya, Art Conservator was consulted the rare holding of ISIM.

The meeting of all Head of Offices from BSI Regional Circles and Units was organized at BSI-ISIM on 28.09.2018 under the chairmanship of Dr. P. Singh, Director, BSI.

**– Dr. Manas Bhaumik**  
Scientist 'D' & HoO

## ARID ZONE REGIONAL CENTRE, JODHPUR

In connection with the project, “Ex-situ conservation of RET and economically important species” one field tour was conducted by Sri Vinod Maina, Scientist ‘D’ & HoO and Dr. Ravi Kiran Kulloli, PDF to Jaisalmer and Barmer District from 28th August to 4th September 2018 for germplasm and live plants collection of Rare and Threatened species.

In connection with the Project, “Flora of Tadgarh-Raoli Wildlife Sanctuary, Rajasthan”, Dr. C.S. Purohit, Scientist ‘B’ conducted one botanical exploration tour from 30th August to 11th September 2018 and collected specimens of 165 field numbers and nine live plants for *ex-situ* conservation.

In connection with the project, “GIS mapping of EET (Endemic, Endangered & Threatened) species of Rajasthan” Dr. C. S. Purohit and Dr. Ramesh Kumar conducted one field tour to Mount Abu WLS, Sirohi and Sunda Mata, Jalore, Rajasthan from 18th to 24th September 2018 and collected specimens of 100 field numbers and eight live plants species for *ex-situ* conservation.



Photo: C.S. Purohit

Survey and exploration during field trip



*Plumbago zeylanica* (Plumbaginaceae)

### Identification of Herbarium specimen

In total specimens of 77 field numbers has been identified during the period under report.

### Public service rendered

Identified two plant specimens viz., *Alhagi maurorum* Medik. and *Asparagus racemosus* Willd. brought by Ms. Nootan Shewaram and Ms. Mamta Patel, M. Pharm Student, Lachoo Memorial College of Science & Technology, Jodhpur.

### Programme/Workshops organized

Organised *Hindi Saptah* programme from 7th to 14th September 2018 and organized various competition.

Organised one *Hindi Raj Bhasha* workshop on *Karyalaya tippan* and lecture delivered by Dr. Bharat Kumar, Assistant Professor, Dept. of Hindi, Jai Narayan Vyas University, Jodhpur on 14.09.2018.



Photo: AZRC

Celebration of *Hindi Saptah* at AZRC, BSI, Jodhpur

### GSDP: Advance Course for Para-taxonomists

Green Skill Development Program (GSDP) is going on as per scheduled programme.

### Visitors/students

Two visitor visited AZRC, BSI, Jodhpur during this month.

– Dr. S.L. Meena  
Scientist ‘D’ I/c

## CENTRAL REGIONAL CENTRE, ALLAHABAD

For international collaborative studies on Non commercial study of the age, growth rates and architecture of five individual trees – two trees of *Adansonia digitata* L. (in Lucknow and in Allahabad) and *Ficus benghalensis* L., *Prosopis cineraria* L. and *Manilkara hexandra* L., Dr. Arti Garg attended and conducted a field tour from 04th to 9th September 2018 with Prof. Adrian Patrut, Babes-Bolyai University, Romania and his team of four Scientists for permitted collection of samples from different regions in Uttar Pradesh.



Sample collection from *Adansonia digitata* L. (left) and *Ficus benghalensis* L. (right) at Jhunsi, Allahabad for 'Collaborative studies on Non commercial study of the age, growth rates and architecture of five individual trees'

### Identification of Herbarium specimens

For the project, 'Floristic diversity of Alwara wetland, Kaushambi district, 230 specimens have been collected, under specimens of 90 Field numbers pertaining to 90 species during a field tour on 23.09.2018.



Floating anchored hydrophytes (left) and submerged hydrophytes (right) at Alwara wetland, Kaushambi District, Uttar Pradesh

A total of 21 specimens were identified in connection with the project 'Identification of old unidentified specimens of BSA'.

19 type specimens of Lichens from AMH herbarium, Agarkar Research Institute, Pune were studied and authenticated by Dr. Pushpi Singh, PDF DST-SERB.

During major reorganization of the Herbarium (BSA) 230 specimens were incorporated.

### Ex-situ Conservation

All introduced/conserved plants/tree species of the garden were routinely maintained with assistance of MTS and five species brought from Jabalpur, namely, *Boswellia serrata* Roxb. ex Colebr., *Commiphora wightii* (Arn.) Bhandari, *Dillenia indica* L., *Shorea robusta* Gaertn. and *Switenia macrophylla* King were introduced in the garden.

### Workshop/Meeting/lectures attended/programme organised

Sri V.K. Singh, Bot Asst. and Dr. Nitisha Srivastava, Bot. Asst. attended three-day workshop on Gene cloning and expression to produce genetically modified organisms at Department of Botany, CMP College from 13th to 15th September 2018.

Dr. G.P. Sinha, Scientist 'E' & HoO attended a plantation drive organized at company bag in Allahabad on 18.09.2018.

A Hindi Workshop was organised on 07.09.2018 during which various competitions were organized followed by prize distribution ceremony on Hindi Diwas, wherein Sri Suresh Choubey, Ex Director, Rajbhasha, New Delhi was invited to deliver lecture and interact with the employee of CRC, BSI, Allahabad.



Hindi workshop organized at CRC, BSI, Allahabad

### Publications

Khanna, K.K. and Shukla, A.N. 2018. *Eclipta prostrata* (L.) L. var. *dixitii* Anand Kumar & K.K. Khanna – a new distributional record for Uttar Pradesh. *Phytotaxonomy* 17: 128.

Singh, P. and Singh, K.P. 2018. *Leucodecton minisporum* Lücking (Graphidaceae), a new record to Indian lichen biota. *Phytotaxonomy* 17: 24–26.

Tiwari, A.P., Shukla, A.N., Shaikh, M. and Lawand, P.R. 2018. Note on the occurrence of *Cleistachne sorghoides* Benth. (Poaceae) in Madhya Pradesh. *Phytotaxonomy* 17: 129–131.

– Dr. G.P. Sinha  
Scientist 'E' & HoO

## NORTHERN REGIONAL CENTRE, DEHRADUN

Identified 44 and described total 21 species of Angiosperm and Pteridophyte for the projects, Flora of Himachal Pradesh Vol. I, Flora of Sechu-Tuan Nala Wildlife Sanctuary, Chamba District, Himachal Pradesh, Flora of Binsar Wildlife Sanctuary, Plant diversity of Cold Desert Biosphere Reserve, Lahaul-Spiti, North-west Himalaya – Analysis, Pictorial Flora of Pteridophytes of Uttarakhand and Revision of Genus *Adiantum* L. in India.

### Digitization of Herbarium specimens

Scanned and digitized 121 specimens housed at BSD, BSI, Dehradun.

### Hindi Pakhwara

Hindi Pakhwara celebrated at NRC, BSI, Dehradun from 14th to 28th September 2018.

Photo: Rajnikant



Photo: Brijesh Kumar

Hindi Pakhwara celebrated at Northern Regional Centre, BSI, Dehradun from 14th to 28th September 2018



### Seminar attended

Dr. Kumar Ambrish, Scientist 'D' & HoO attended Annual Research Seminar of WII, Dehradun on 19.09.2018 at WII, Dehradun.

### Publications

Ambrish, K., Dogra, K.S., Srivastava, S.K., Rajnikant and Kharakwal, K. 2018. Vegetation types and Floral composition of Himachal Pradesh, Western Himalaya: An Overview. *Phytotaxonomy* 17: 123–127.

Singh, S., Sinha, B.K., Rajnikant, Kharakwal K. and Ambrish, K. 2018. Ethnobotanical studies in Great Himalaya National Park and its proximity. *Phytotaxonomy* 17: 43–49.

Debta, M.R. and Ambrish, K. 2018. *Neodistemon indicum* (Wedd.) Babu & A.N. Henry-A new distributional record for Himachal Pradesh. *Phytotaxonomy* 17: 117–119.

Pusalkar, P.K. and Ambrish, K. 2018. *Koenigia tortuosa* (D.Don) T.M. Schust. Reveal var. *glabrifolia* (S.P. Hong) T.M. Schust. & Reveal -A new record for Indian flora. *Phytotaxonomy* 17: 20–23.

Joshi, P., Kumar, V. and Kumar, B. 2018. *Cheilanthes tenuifolia* (Burm.) Sw.: An Addition to pteridophytic flora of Manipur, an Indo-Myanmar Biodiversity Hotspot Region. *Ann. For.* 23(2): 127–130.

Panwar, G.S., Joshi, B., Srivastava, A. and Ambrish, K. 2018. *In vitro* rescue and habitat restoration of critically endangered and endemic *Catamixis baccharoids* Thomson: a monotypic species. Proceeding of International Biodiversity Congress.

Sharma, S. Kholia, B.S. and Bargali, S.S 2018. A new species of *Microlepia* (Dennstaedtiaceae) from Mizoram, India. *Webbia, Journal of Plant Taxonomy and Geography.* 73(2): online. <https://doi.org/10.1080/00837792.2018.1509932>.

Debta, M.R. and Srivastava, S.K. 2018. An Overview of plant diversity in Col. Sher Jung National Park, Sirmour district, Himachal Pradesh. *Phytotaxonomy* 17: 27–30.

Phondani, P.C., Bhatt, I.D., Maikhuri, R.K., Kothiyari, B.P., Bhatt, A., Purohit, V.K. and Joshi, P. 2018. Exploring floriculture potential for sustainable livelihood of subsistence communities in Indian Himalaya. *Natl. Acad. Sci. Lett.* (doi.org/10.1007/s40009-018-0660-z).

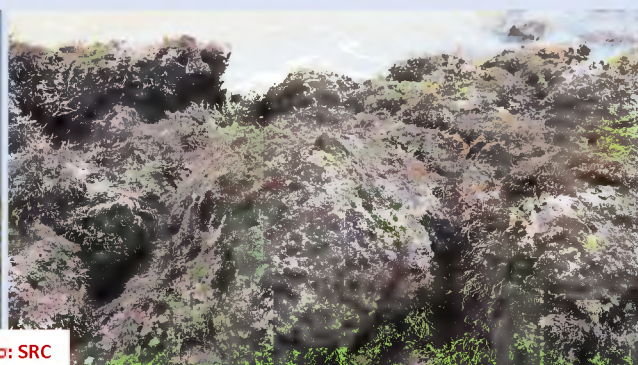
**Dr. Kumar Ambrish**  
Scientist 'D' & HoO

## SOUTHERN REGIONAL CENTRE, COIMBATORE

Dr. J.H. Franklin Benjamin, Scientist 'C' and Sri Rakesh G. Vadhyar, Bot. Asst. conducted botanical exploration from 18th to 28th September 2018 at Kanyakumari WLS, Tamil Nadu and vouched specimens of 128 field numbers. They also completed identification for specimens of 25 field numbers from the previous collection. Dr. R. Manikandan, Scientist 'D' and Ms. R. Mehala Devi, Sr. Pres. Asst. conducted herbarium consultation tours from 3rd to 7th September 2018 at AHMA, BSI, Pune. They also completed identification for specimens of 15 field numbers under Cauvery North WLS, Tamil Nadu.



Enormous diversity of Chlorophyceae in backwater area of Pulicat lake at lowtide



Mixed Seaweed vegetation on eroded calcareous rocks at Bheemlipatnam

Photo: SRC



*Entada rheedei* - a rare liana collected from Kanniyakumari WLS

Photo: SRC



Photo: SRC

*Impatiens herbicola* - an endemic rare species collected from Kanniyakumari WLS



*Miliusa eriocarpa* - a rare species growing in Kanniyakumari WLS

### Identification of herbarium specimens

Dr. C. Murugan, Scientist 'D' & HoO and Dr. S. Arumugam, Bot. Asst. completed identification for specimens of 50 field numbers from Meghamalai WLS, Tamil Nadu. Dr. K.A.A. Kabeer, Scientist 'D' and Mr. A. Ravi Kiran, Bot. Asst. completed identification for specimens of 22 field nos. from Kodaikanal WLS, Tamil Nadu. For fragile ecosystem, Dr. M. Palanisamy, Scientist 'D' and Dr. S.K. Yadav, Bot. Asst. completed taxonomic description of 15 species of seaweeds from Goa coast and collected 12 references pertaining to the study area. For documentation of Phytodiversity, Dr. C. Murugan and Dr. S. Arumugam completed identification for specimens of 10 field numbers for Cyperaceae of Tamil Nadu.

### Ex-situ conservation

Dr. S. Kaliamoorthy, Scientist 'D', Dr. M.Y. Kamble, Scientist 'D' and his team multiplied 38 plants belonging to 10 genera, developed 44 seedlings of 5 taxa, 114 cuttings of 8 taxa and recorded the phenological data of 30 plants, including 20 orchids and 10 other angiosperms at NO & EG, Yercaud.

### Public service rendered

Identified 65 plant species for the students/research scholars of various institutions.

Dr. S. Arumugam delivered a lecture on BSI and its activities to the students (M.Sc, Botany) and research scholars of PSGR Krishnammal College for Women, Coimbatore.

Ms. R. Mehala Devi and M. Ananthalakshmi, Sr. Pres. Assts. delivered lectures on the topic "Handling of Microscope" to the BSI scholars.

Five digital images of family Urticaceae were provided to Dr. P. Sunoj Kumar, Assistant Professor, University of Calicut, Kerala.

Ten digital images of *Thottea* spp. and *Aristolochia* spp. were sent to Ms. Suchithra G. Krishnan, Jawaharlal Nehru Tropical Botanic Garden and Research Institute, Palode, Trivandrum, Kerala.

### Programme organised/conference attended/lecture delivered

Dr. M. Palanisamy delivered a lecture on "Carrier Guidance in Botany" on 25.09.2018 at the Department of Botany, Vivekanandha college of Arts and Sciences for women" Namakkal Dist. Tamil Nadu.

Dr. R. Manikandan delivered a lecture on "Plant Taxonomy-Key Preparation", Ms. R. Mehala Devi conducted practical classes on the same topic to 45 PG students on 20.09.2018 at Department of Botany, PSGR Krishnammal College for Women, Coimbatore.

### Drawings/translations/photographs made

Sri R. Suresh, Artist, illustrated 13 illustrations/charts/boards, whereas Sri A.T. Durgadas, Artist is involved in oil painting Portrait of Dr. E.K. Janakiammal and Dr. W. Roxburgh.

### Rajbhasha (Hindi) activities

The internal Quarterly meeting of the Rajbhasha (Hindi) Implement Committee was held at SRC, BSI, Coimbatore on 03.09.2018. All the committee members attended and discussed various issues pertaining to Rajbhasha progress.

A Hindi workshop was conducted on 19.09.2018 at SRC, BSI, Coimbatore. Sri M. Kavettirangan, TOLIC secretary, BSNL office, was the chief guest of the workshop.

Hindi Day and Fortnight were celebrated from 14th to 28th September 2018 at SRC, BSI, Coimbatore. During this, various competitions were organized for the staff to promote Hindi communications in office.



Photo: SRC

Hindi Day and Fortnight celebrated from 14th to 28th September 2018 at SRC, BSI, Coimbatore

### Visitors/students

During this month, a total of 94 scientific personnel/officials/students/scholars including 5 VIPs visited the museum, herbarium and library of this regional centre whereas 220 persons in 32 parties visited the NO & EG, Yercaud.

– Dr. C. Murugan  
Scientist 'D' & HoO

## WESTERN REGIONAL CENTRE, PUNE

Dr. Priyanka Ingle, Scientist 'B' conducted botanic garden inspection tour to Botanic Garden, GKVK, Bangalore during 14th and 15th September 2018 for Assistance to Botanic Garden scheme.

### Specimen Identification

Dr. C.R. Jadhav, Botanist identified specimens of 20 field numbers for the project, "Floristic survey of Someshwara Wildlife Sanctuary, Karnataka.

Dr. Priyanka Ingle, identified specimens of six field numbers for the project, "Floristic diversity of Wan Wildlife Sanctuary, Maharashtra".

Sri S.C. Patil, Bot. Asst. identified specimens of 50 field numbers for the project, "Flora of Pushpagiri Wildlife Sanctuary, Karnataka".

Smt. A.M. Neelima conducted mitotic chromosome studies of two orchids for the project, "Seed morphology and cyto-taxonomy of some selected orchids of Northern Western Ghats".

Sri D. Jesubalan, Bot. Asst. identified specimens of three field numbers for the project, "Pteridophytic flora of Pushpagiri Wildlife Sanctuary, Karnataka with 10% periphery".

Dr. Rashmi Dubey, Scientist 'D' identified specimens of eight field numbers for the project, "Taxonomic Studies of Micro fungi of Sanjay Gandhi National Park along with its 10% peripheral area".

### Public service rendered

During this month 12 plant specimens were identified and issued authentication certificates to students from B. Pharm, M. Pharm. colleges, Ph.D. and P.G. students from different institutions.

### Green Skill Development Programme (GSDP)

Valedictory function of the training course titled "Community based Conservation of Mangrove Ecosystem" under the Green Skill Development Programme (GSDP) of Ministry of Environment, Forest and Climate Change was organized at Botanical Survey of India, Western Regional Centre, Pune on 19.09.2018. Programme was attended by Dr. A.K. Jha, Former PCCF & DG, Social Forestry Division, Maharashtra Forest Department and Dr. Mahesh Shindikar, Assistant Professor of Biology, COEP, Pune & Mangrove expert, Mangrove Foundation, Mumbai. A total of 10 students were enrolled for this training course and received course completion certificate after passing the examination.



Photo: WRC

Distribution of course completion certificates to the trainees during GSDP valedictory function

### Visitors/students

A total of 25 DFO trainees from Forest research Institute, Dehradun visited WRC, BSI during this month.

Sri Manish Mistry from Vadodra, Gujarat visited museum and garden on 05.09.2018.

Ms. M.P. Krishnapriya and Ms. K.K. Jeomol from Calicut University visited herbarium for consultation of genus *Utricularia* and family Urticaceae from 13th to 18th September 2018.

Ms. Shubhangi Kamble, Research Scholar from Shivaji University Kolhapur visited WRC herbarium on 17th and 18th September 2018 and consulted genus *Amaranthus* for her Ph.D. work.

Ms. A. Amrutha and Sri Nikhil Krishna from Department of Botany, University of Calicut visited herbarium for consultation of the Genus *Acacia* and *Begonia* on 17.09.2018

Ms. Manasi A. Joshi from Dr. BAMU, Aurangabad visited for Herbarium consultation of Genus *Tribulus* on 18.09.2018.

### Publication

Dubey, R. 2018. *Temerariomyces indicum* - a new species of sporodochial fungus from Sanjay Gandhi National Park, Mumbai, India. *J. New Biological Reports* 7(2): 106–108.

– Dr. P. Lakshminarasimhan  
Scientist 'E' & HoO

*Thanks to all the scientists and staff of regional centres and units of Botanical Survey of India for contributing to this Newsletter*

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