ANNUAL RESEARCH PROGRAMMES (ARP)
2025-26
OF
BOTANICAL SURVEY OF INDIA

FINAL

भारतीय वनस्पति सर्वेक्षण
BOTANICAL SURVEY OF INDIA

Botanical Survey of India
Ministry of Environment, Forest and Climate Change
Government of India
Kolkata - 700064

AJC BOSE INDIAN BOTANIC GARDEN, HOWRAH

Sl. No.	Name of the Project	Period	Quantifiable deliverables for 2025-26
1.	**Development and Maintenance of aquatic plant section in AJCBIBG** 1. Dr. R. Saravanan, Botanist *(With assistance of Two garden staff)* ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1 – Q4:** Introduction of 10 species in each quarter. Local Tours.
2.	**Introduction and *ex-situ* conservation of RET species in AJC Bose Indian Botanic Garden** All staff members of AJCBIBG up to the level of Preservation Asst. *cum* Garden Overseer ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1 – Q4:** Conservation of RET species in garden. Q2**: Two tours:** Western Ghats, Eastern Ghat Q3**: Two tours**: N. E. India, Western Himalaya Q4**:** Conservation of RET species in garden. Materials to be procured from the ANRC, for plants from Andaman. **Total tours: 4** ***Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.***
3.	**Sustainable Management of water bodies of Acharya Jagdish Chandra Bose Indian Botanic Garden** Dr. R. Saravanan, Botanist Shri Sattom Dasgupta, Pres. Asstt. Cum Garden Overseer	2024-2026	**Q1:** Documentation of plants, collection of water sample for water analysis In-situ measurements of pH, dissolved oxygen and electrical conductivity were taken using a multiparameter calibrated probe. **Q2:** Identification of plants, photography and documentation. **Q3:** Collection of water sample for water analysis. In-situ measurements of pH, dissolved oxygen and electrical conductivity were taken using a multiparameter calibrated probe. **Q4:** Documentation of plants
4.	***Ex-situ* conservation, Propagation Techniques and Taxonomic studies of the Genus *Thunbergia* Terz. (Acanthaceae) in India** Dr. J. Swamy, Scientist C, Shri R.D. Barnam, Bot, Asst. Dr. Devendra Singh, Scientist E	2024-2027	**Q1- Q4:** • Develop the protocol for *ex-situ* conservation of the genus *Thunbergia*. • Revise the entire genus *Thunbergia* for India. • Undertake ex-situ conservation and propagation endemic and important species. • Preparation of high quality photographs and diagnostic keys based on the field observations. • Identification and document the species, providing valid names, with synonymy, citation, descriptions with good photographs and to building diagnostic keys based on field observations. ***Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.***
5.	**Floristic Diversity and Ethnobotanical Studies of Mayurjharna Elephant Reserve, West Bengal, India** Dr. Rahul Deb Barman (Botanical Assistant), Dr. Devendra Singh (Scientist- 'E' & H.o.O.) ***New Project***	2025-2027	**Q1-Q2.** Study of Literature and review of previous work. **Q3. One Field Tour to study area.** (Collection of voucher plant specimen, observing penology, GPS data documentation, photography, field level identification), **One Herbarium Consultation tours (HCT).** **Q4. Preparation of herbarium;** Study and Identification of collected specimens, and description of collected specimens and data entry. **Total Tours: 2**

ANDAMAN & NICOBAR REGIONAL CENTRE, PORT BLAIR

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

6.	**Macrofungi of Andaman & Nicobar Islands** Dr. Mahadevakumar, S., Scientist C ***Note: The final report to be submitted by March 25th 2027.***	2023-2027	**Q1.** Study of previous collections. **Q2. One Herbarium Consultation** tour to University of Hyderabad, Telangana and KFRI, Peechi, Kerala to identify and molecular barcoding of Mushrooms of Andaman and Nicobar Islands. **Q3. One Field Tour** will be conducted to South Andaman and Macrofungal resources will be documented. **Q4.** Study and Identification of collected specimens. **Total Tours: 2 (1 FT and 1 HCT)**
7.	**Ethnobotanical Study of Ranchi communities / settlers of Andaman Islands** 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical Assistant (Deployed at ANRC, Port Blair) 3. Dr. Lal Ji Singh, Scientist-F ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1:** Study of the collected specimens during previous field tours **Q2: One Field Tour** to be conducted to South Andaman. Study of the collected specimens during Field tours **Q3: One Field Tour** to be conducted to Middle Andaman. Study of the collected specimens during Field tours **Q4:** Study of the collected specimens during Field tours. **Total Tours: 2**
8.	**Cyanobacteria and Microalgae of Andaman & Nicobar Islands, India** Dr. Sudipta Kumar Das, Scientist E Dr. S. Bhakta, Bot. Asstt.	2024-2026	**Q1. One field tour** to be undertaken to Nancowry group of Islands. **Q2. Two field tours** to be undertaken Middle and South Andaman Islands. **Q3. One field tours** to be undertaken to Car Nicobar. **One herbarium consultation tour** to Agharkar Research Institute, Pune for Microscopy and diagnosis of algal samples. **Q4.** Processing & identification of specimens collected during field tour. Finalisation and submission of report. **Total tours: 5 (4 FT + 1 HCT)**

ARUNACHAL PRADESH REGIONAL CENTRE, ITANAGAR

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

9.	**Metadata preparation and Digitization of ARUN Herbarium** Dr. Ranjit Daimary, Botanist ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1- :** Metadata preparation and digitization of 7500 herbarium specimens. **Q2 :** Metadata preparation and digitization of 7500 herbarium specimens. **Q3 :** Metadata preparation and digitization of 7500 herbarium specimens. **Q4 :** Metadata preparation and digitization of 7500 herbarium specimens.
10.	**Taxonomic studies on Wild edible Mushrooms of Arunachal Pradesh** Dr. Arvind Parihar, Scientist - C ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1- One filed tour** for the collection of specimens. **Q2**.- Processing, identification and study of collected specimens. **Q3**.- Study of the previous collections. Processing and Identification of collected specimens. **Q4**. Preparation & Submission of final project report to HQ, BSI. **Total Tour : 1**
11.	**Taxonomy and Ecology of Gesneriaceae of Arunachal Pradesh** Dr. Krishna Chowlu, Sci-D, Akshath Shenoy, Senior Preservation Assistant ***Note: The final report to be submitted by March 25th 2026.***	2024-2026.	**Q1.** Study of previous collections. **Q2. One field** tour to Central and Western parts of Arunachal Pradesh. Identification and description of collected specimens. **Q3. One field** tour to Central and Eastern parts of Arunachal Pradesh. Identification, description writing and photoplate preparation of previously collected specimens. **Q4.** Identification and description of collected specimens. Final submission of the report. **Total tours: 2**

ARID ZONE REGIONAL CENTRE, JODHPUR

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

12.	**Grasses of Rajasthan** Dr. Pushpa Kumari, Scientist-E ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1.** Processing and identification of Herbarium specimens collected in the previous tours. **Q2. One field tour** to the study area; processing and identification of Herbarium specimens collected in the previous tours. **Q3. One field tour** to the study area; processing and identification of Herbarium specimens collected in the previous tours. **Q4.** Processing & identification of Herbarium specimens collected in the previous tour. **Total tours: 2**
13.	**Vegetation of Indian desert of Rajasthan and Gujarat: present scenario, GIS mapping and IUCN Assessment of Endemic, Endangered and regionally rare species** 1. Dr. C.S. Purohit, Scientist D 2. Dr. S.L. Meena, Scientist-E 3. Ramesh Kumar, Bot. Asstt. 4. Amit Kumar, Sr. Pres.Asst. ***Note: The final report to be submitted by March 25th 2027.***	2023-2027	**Q1.** Processing & identification of Herbarium specimens collected in the previous tour. **Q2. One field tour** to the study area; processing & identification of Herbarium specimens collected in the previous tour. **Q3. One field tour** to the study area; Processing & identification of Herbarium specimens collected in the previous tour. Q4. Processing & identification of Herbarium specimens collected in the previous tour. **Total tours: 2**
14.	**Floristic studies in Ramgarh Vishdhari Tiger Reserve, Rajasthan, India** Dr. Rajeev Kumar Singh, Botanist Dr. S.L. Meena, Scientist E Mr. Ramesh Kumar, Bot. Asstt.	2024-2027	**Q1**. **One field tour,** Review of Literature and Mapping of Tiger Reserve. Procurement of Forest Dept. permission to carry out floristic exploration in protected area. **Q2.** Identification, Inventorisation of plant specimens. **Q3**. **One field tour,** Identification, Inventorisation of the collected specimens. **Q4**. Identification, Inventorisation of plant specimens. **Total tours: 2**
15.	**Maintenance and conservation of selected Economically important, Endemic and Threatened species of the Arid region** 1. Dr. S.L. Meena, Scientist-E 2. Dr. C.S. Purohit, Scientist-D 3. Shri Amit Kumar, Sr. Pres. Asstt. ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1**: Maintenance and conservation of Economic, , Endemic and Threatened species of the arid region in the experimental Garden of AZRC. Introduction of 10 woody species in the garden. **Q2**: Maintenance and conservation of Economic, Endemic and Threatened species of the arid region in the experimental Garden of AZRC. Introduction of 10 woody species in the garden. **Q3**: Maintenance and conservation of introduced RET species & their further multiplication. **Q4: One field tour**. Maintenance and conservation of introduced RET species & their further multiplication. **Total tour: 1**
16.	**Metadata preparation and digitization of herbarium specimens** 1. Dr. R.K. Singh, Botanist 2. Dr. P.K. Deroliya, Bot. Asstt. 3. Shri Ramesh Kumar, Bot. Asstt. 4. Shri Amit Kumar, Sr. Pres. Asstt.) ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1 – Q4:** 1. Completion of metadata of herbarium specimens 2. Digitization of 2400 herbarium specimens (600 per quarter by each). 3. Identification of 40 unidentified specimens, accession and incorporation in every quarter. (10 specimens by each)

17.	**Landscape analysis and floristic diversity of Keoladeo national park and Sāmbhar lake Ramsar sites of Rajasthan, India.** Dr. Ravi Kiran Arigela, Scientist - C, Dr. S.L. Meena, Scientist – E, Dr. Purushottam Kumar Deroliya, Bot. Asst.	2023-26	**Q1**. **One field tour** – Collection, identification, inventorisation & field data analysis. Report preparation. **Q2**. **One NRSC Consultation Tour**: Preparation of Classified maps of Ramsar sites. Identification of collected specimens of previous tours and field data analysis. Report preparation. **Q3**. **One field tour** – Collection, identification of collected specimens of previous tours and field data analysis. Report preparation. **Q4**. Identification inventorisation & field data analysis. **Report submission**. **Total tours: 2 field tours and 1 HCT.**

BOTANIC GARDEN OF INDIAN REPUBLIC, NOIDA

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

18.	**Mass germination and multiplication of Horticultural and ornamental plants/ season flowers in BGIR.** 1. Dr. Sandeep Kr. Chauhan, Scientist–F 2. Mr. Yogesh Lahane, Botanist ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1** Preparation of Inventory of available ornamental and Horticulture plants in BGIR as on 31.3.2014. Collection and Germination/Multiplication of about 20 ornamental plants species and annual flower seed germination (30 No varieties) **Q2** Enrichment of existing fruit sections by introducing hybrid cvs of fruits (15 no) in fruit section. Collection and Germination/Multiplication of about 20 ornamental plants species and annual flower seed germination (10 No varieties) **Q3** Introducing low chill sub temperate fruit varieties (20 no) in fruit section. Collection and Germination/Multiplication of about 25 ornamental plants species and annual flower seed germination (20 No varieties) **Q4** Preparation of separate nursery for mass scale production of ornamental and seasonal plants and flowers.
19.	**Maintenance of existing Forest Types and Phytodiversity at BGIR Noida** 1. Dr. Priyanka A. Ingle, Scientist D 2. Mr. Yogesh Lahane, Botanist 3. ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1 – Q4**: Maintenance of the existing plants of forest zones (1-8) and net houses of BGIR. Recording phenology of the plants (flowering and fruiting- 20 spp.,). Pollination studies of a minimum of 2 plant species /each quarter. Inventory preparation of existing plants spp as planted in last 15 years (entire zones). Viability status of plants spp., planted in last 5 years in various sections an inventory thereof.
20.	**Collection of seeds from existing garden and its maintenance, development of nurseries, Seed bank lab unit and studies of seed germination protocol of endemic and threated plant species vis a vis setting of Plant conservatoires and vermicomposting unit at BGIR Noida** 1. Dr. Sandeep Kr. Chauhan, Scientist F 2. Dr. G. S. Panwar, Scientist E ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1 – Q4**: Seed collection of plant spp. (including threatened plants); Preparation of defined seed germination Methodology for endemic & threatened plant spp. Preparation of Seed data base. 25000 seedling to be raised and maintained. *Note: List of the target species not less than 50 species.*

21.	**Maintenance of Herbarium, Collection of endemic plant species the garden, preparation of database of endemic species introduced at BGIR Noida** 1. Ms L.I. Chanu, Botanist ***Note: The final report to be submitted by March 25th 2026.*** ***New Project***	2025-2027	**Q1 – Q4**: Regular maintenance of Herbarium, Collection of endemic plant species the garden, and preparation of database of endemic species introduced at BGIR Noida. ***Note: The progress report to be submitted by March 25th 2025.***
22.	**Diversity and conservation of Wild Edible Plants in North Western Himalaya (Himachal Pradesh and Jammu & Kashmir)** 1. Dr. Sandeep Kr. Chauhan, Scientist F & HOO, BSI, BGIR, Noida 2. Dr. Ambarish Kumar, Scinetist F & HOO, HAWHRC, Solan 3. Dr. Mahendar Kr. Singhadiya, Botanist, BSI, BGIR, Noida 4. Sh. Suman Halder, Botanist, 5. BSI, BGIR, Noida 6. Mrs.Priyanka, Botanical Assistant, BSI, BGIR, Noida ***New Project***	2025-2029	**Q1-Q2.** Review of literature, Site selection and initial reconnaissance. **Q3. One field tour** for survey and collection of Plants. Herbarium preparation and enrichment, collection of ethno botanical data, economic viability and market assessment. **Q4. One field tour** for survey and collection of Plants. Herbarium preparation and enrichment, collection of ethno botanical data, economic viability and market assessment. **Field tours: 2**
CENTRAL BOTANICAL LABORATORY, HOWRAH			
23.	**Flora and Ethnobotany of Debrigarh Wildlife Sanctuary, Bargarh district, Odisha** Dr. Manas Rajan Debta, Scientist-'D' Dr. D.K. Agrawala, Scientist-'E' Dr. S.S. Dash, Scientist-'F'	2024-2027	**Q1**: Identification of collected specimen and description of the identified taxa. **Q2. One field tour;** identification of collected specimen and their description **Q3 One field tour;** identification of collected specimen and their description **Q4. One field survey tour; One HCT** to RPRC, Bhubaneswar; identification of the collected samples and description of the identified taxa. **Total tours: 3 field tours and One HCT.**
24.	**Comprehensive chemical profiling in unexplored wild edible plants, identifying taxonomic problems** 1. Dr.Tapan Seal, Scientist 'E', 2. Ms.Basundhara Pillai, Botanist ***New Project***	2025-2026	**Q1**: Estimation of free and bonded amino acid. Monosaccharide profiling by HPLC. **Q2.** Estimation of free and bonded amino acid Monosaccharide profiling by HPLC. **Q3.** Amino acid profiling both free and bonded by HPLC. **Q4.** Monosaccharide profile by HPLC.
25.	**Total Tannin content in barks of 15 timber species in AJCBIBG, Howrah** Dr. Deepu Vijayan, Scientist 'D' ***New Project***	2025-2026	**Q1 – Q4:** Collection of bark from selected timber yielding plants from AJC Bose Indian Botanic Garden, Howrah. Estimation of total tannin Final Technical Report preparation.

CENTRAL NATIONAL HERBARIUM, HOWRAH

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

26.	**Molecular phylogeny, morphology and taxonomy of Boletoid mushrooms in India** Dr. Kanad Das, Scientist-F Dr. Sudeshna Datta, Botanist ***Note: The final report to be submitted by March 25th 2026.***	2022-2026	**Q1**: Micromorphological characterization of the fungal samples, culturing of the edible Boteloid mushrooms, Germplasm conservation. Mutligene molecular phlogeny, documentation of the interesting findings. **Q2**: **One field Tour** Himachal Pradesh (Kullu, Mandi and Shimla districts). **Q3 - Q4**: Micromorphological characterization of the fungal samples, culturing of the edible Boteloid mushrooms, Germplasm conservation. Mutligene molecular phlogeny, documentation of the interesting findings. **Field tour: 1**
27.	**Morpho-Molecular and Phytochemical identification of 30 CITES Listed Plants in high International Trade.** • *(10 taxa each year)* 1. Dr. Avishek Bhattacharjee, Scientist-E 2. Mr. Ranjith Layola M.R., Botanist 3. Ms. Farheen Banu, Preservation Assistant-cum-Garden Overseer 4. Dr. Tapan Seal, Scientist E ***Note: The final report to be submitted by March 25th 2026 in the form of Manual.***	2023-2026	**Q1**: Morphological, phytochemical, and molecular studies of the collected specimens. **Q2**: **One field tour in Western Himalaya** to collect multiple accessions of targeted species. Morphological, phytochemical, and molecular studies of the collected specimens. **Q3**: **One Field cum Herbarium consultation tour in South India** to collect new and multiple accessions of targeted species. Morphological, phytochemical, and molecular studies of the collected specimens. **Q4**: Morphological, phytochemical, and molecular studies of the collected specimens. Data compilation, DNA sequence submission to NCBI, and preparation of final technical report. **Field tours: 2**
28.	**Taxonomic Revision of *Meconopsis* Vig. (Papaveraceae) in India** 1. Dr Kumar Avinash Bharati, Scientist-D 2. Dr Anand Kumar, Botanist 3. Dr Rajib Gogoi, Scientist F ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1:** Consultation of herbarium specimens and literature studies. Morphological studies of the collected specimens. **Q2: Two field tours: One field tour to be taken by the PI and team to Arunachal Pradesh; other tour by Dr. R. Gogoi, to Sikkim** to collect the targeted species. **Q3:** Morphological characterization, preparation of photo-plates of the collected specimens. **Q4:** Morphological studies of the collected specimens. Data compilation and preparation of final technical report. **Total: 2 Field Tours** ***Note: Tour to be taken by the PI, along with team, not by the individual team member separately.***
29.	**Taxonomic Revision of *LIGULARIA* Cass (Asteraceae) in India** 1. Dr. Partha Pratim Ghoshal, Botanist 2. Dr. Shyam Biswa, Botanical Assistant ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	Q1: Identification of collected specimens and morphological characterization of specimens. Q2: **One field cum herbarium consultation tours** to Jammu & Kashmir and Ladakh. Q3: Identification of collected specimens and morphological characterization of specimens. Q4: Finalization and submission of the final report. **Field tour: 1**

30.	**Wild edible mushrooms of West Bengal: Multigene molecular phylogeny, morpho-taxonomy, nutritional profile, in vitro culture and cultivation (selected taxa)** Dr. Sudeshna Datta, Botanist, Dr. Kanad Das, Scientist 'F', Dr. Tapan Seal, Scientist E	2024-2026	**Q1:** Study or the previous collections. **Q2**: **One field tour** to Purulia/Bankura/Medinipur dist. will be undertaken based on the availability and fruiting seasons. **Q3:** Micromorphological characterization, micro-photography, camera lucida drawings of about 8-10 species will be undertaken in the laboratory from the dried samples. DNA extraction, amplification and sequencing will be done from 10-12 collected species. Multigene molecular phylogenetic analyses, and respective phylogenetic trees (estimations) will be prepared accordingly and identification will be done. Q4: Micromorphological characterization, micro-photography, camera lucida drawings of the remaining species will be undertaken in the laboratory from the dried samples collected during 2025-2026. DNA extraction, amplification and sequencing will be done from remaining species. Multigene molecular phylogenetic analyses and respective phylogenetic trees (estimations) will be prepared accordingly. Final report will be compiled and submitted. **Total tour: 1**
31.	**Systematic study of the genus *Dalbergia L.*f. (Fabaceae) in India using morphological and molecular methods** 1. Dr.Avishek Bhattacharjee, Scientist-E, 2. Dr.Ranjith Loyola M R, Botanist, 3. Mr.SudiptaSardar, Botanical Assistant ***New Project***	2025-2028	**Q1:** Study of Protologues, Floras, authentic literatures, herbarium specimens at CAL. **Q2: One field-cum-herbarium consultation tour** in Eastern Himalaya/ N.E. India. **Q3: One field-cum-herbarium consultation tour** in South India to collect targated species; Morphological study of collected species will be done; prepariton of draft description, citation, photoplate/ illustration of the collected samples etc. will be continued. **Q4:** Morphological study of collected species; prepariton of draft description, citation, photoplate/ illustration of the collected samples etc. **Total tours: 2**

CENTRAL REGIONAL CENTRE, ALLAHABAD

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

32.	**Flora of Amangarh Tiger Reserve, Bijnor, Uttar Pradesh** Dr. Onkar Nath Maurya, Scientist-E (posted at BSI HQ, Kolkata) Mr. Anurag Kesharwani, Bot. Asst. Mr. Saugata Roy, Bot. Asst.	2024-2027	**Q1: One Field tour.** Processing of the collected specimens. **Q2:** Identification of specimens of previous tours **Q3: One Field tour** and processing of the collected specimens. **Q4:** Identification of specimens of previous tours **Total tours: 2**
33.	**Flora of Madhav National Park, Shivpuri (Madhya Pradesh)** Dr. Sanjay Mishra, Scientist-'D'	2024-2027	**Q1:** Identification and documentation of specimens collected in the previous tours. **Q2: One field tour** of the area. **Q3: One field tour** of the area. **Q4:** Identification and documentation of specimens collected in the previous tours. **Total tours: 2**

34.	**Pictorial Flora of Madhya Pradesh** (Ranunculaceae to Poaceae) Dr. Vinay Ranjan, Scientist-E, Dr. O.N. Maurya, Scientist-E, Dr. Sanjay Mishra, Scientist-D Smt. Neelima A. M, Bot. Assistant Shri. B. Lakshmanudu, Senior Preservation Assistant	2024-2027	**Q1- Q2:** Study of available Herbarium specimens and writing description. **Q3: One field tour** to the study area. **Q4: One field tour** to the study area**.** **Total tours: 2**
35.	**Digitisation of herbarium holdings of 'BSA' – Botanical Survey of India, Central Regional Centre, Prayagraj** Dr. Sanjay Mishra, Scientist 'D' Dr. S. Muthukumar, Botanist Smt. Neelima A. M, Botanical Assistant Shri. B. Lakshmanudu, Senior Preservation Assistant	2024-2026	**Q1 - Q4:** Regular maintenance of herbarium, Preparation of database and incorporation of metadata of all digitised herbarium, specimens. Digitization of herbarium. **Target: 16,000 herbarium specimens per year.**

DECCAN REGIONAL CENTRE, HYDERABAD

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

36.	**Lichens of Telangana state** Dr. Swamalatha G., Botanist. ***Note: The final report to be submitted by March 25th 2026.***	2022-2026	**Q1: One field tour.** Processing of specimens and Identification of specimens collected during the previous tour. Q2: **One field tour.** Processing of specimens and Identification of specimens collected during the previous tour. Q3: **One field tour.** Processing of specimens and Identification of specimens collected during the previous tour. Q4: Identification and documentation of collected plants. Finalization and submission of final report. **Total tours: 3**
37.	**Flora of Pakhal Wildlife Sanctuary, Telangana** 1. Dr. L. Rasingam, Scientist E 2. Dr. P. Harikrishna, Bot. Asst. ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	Q1**:** Study and Identification of specimens collected during the previous tour. Q2: **One field tour** and identification & documentation of collected plants. Q3: **One field tour** and Identification and documentation of collected plants. Q4: Identification and documentation of collected plants. Finalization and submission of final report. **Total tours: 2**
38.	**Floristic studies in the Bhitarkanika Wildlife Sanctuary, Kendapara, Odisha.** Dr. S. P. Panda, Scientist-'D	2024-2028	**Q1-Q2:** Herbarium/Literature studies; Reconnaissance Survey. Q3: **One field tour to study area**. Q4: **One field tour to study area**. **Total tours: 2**
39.	**Floristic diversity and Ethnobotany of Goramanda Sacred grove, Alluri Sitharama Rjau District, Eastern Ghats of Andhra Pradesh, India.** Dr. Sankararao Mudadla, Scientist-D (Area 280 sq.km) ***New Project***	2025-2026	**Q1-Q2:** Herbarium/Literature studies; Reconnaissance Survey. Q3: **One field tour to study area**. Q4: **One field tour to study area**. **Total tours: 2**

EASTERN REGIONAL CENTRE, SHILLONG

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

40.	**Maintenance of the Experimental Botanic Garden, BSI, ERC, Barapani** 1. Mr. B.B.T. Tham, Botanist 2. Shri L.R. Meitei, Bot. Asst. ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1:** Regular maintenance of the Garden. **Q2:** Regular maintenance of the Garden. **Q3: One Collection Tour** to the N.E. India for Enrichment, Replenishment and New addition to Botanic Garden Collection if any **Q4:** Regular maintenance of the Garden for Enrichment, Replenishment and New addition to Botanic Garden Collection if any. **Total tour: 1**
41.	**Backlog clearance of unidentified Herbarium sheets at ASSAM.** 1. Smti. Nandita Sarma, Bot Asstt., 2. Shri. Vijay, Bot Asstt., 3. Smti. Debala Tudu, Bot Asstt., 4. Shri. C.S. Kazipyo, Bot. Asstt. 5. Shri. Harekrushna Swain, Sr. Preservation Asstt., 6. Shri. Y Mahesh, Sr. Preservation Asstt. 7. Shri Rickertre Lytan, Sr. Preserv. Asst. 8. Shri Pramod Meena, Preservation Asst. cum Garden Overseer. Under the supervision of Dr. R. Manikandan, Sci-E. ***Note: The final metadata to be submitted by March 25th every year.***	Ongoing	**Q1**: Segregation of herbarium sheets. Collecting the field related information whose field books are not available. Data entry of herbarium sheets. Identification of 700 plants. Fumigation & incorporation of identified sheets. **Q2**: Identification of 700 plants fumigation & incorporation of them. **Q3**: Identification of 700 plants fumigation &incorporation of them. **Q4:** Identification of 700 plants & fumigation & incorporation of them. Preparation & submission of final report.
42.	**Morphotaxonomy and Molecular Phylogeny of Wild edible Mushrooms of Meghalaya** Dr. Dyutiparna Chakraborty, Scientist –C Ms. Debala Tudu, Bot Asst. ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1: a.** Literature consultation and DNA extraction from previously collected (remaining) specimens. **Q2: One tour to the study area**. Macro and micro morphological characterization of all collected mushroom will be done. SEM study of basidiospores will be done if necessary. **Q3: a.** Molecular phylogeny will be conducted approximately 10 wild edible mushrooms. **b.** Macro and micro morphological study of all collected specimens. **c.** Preparation final herbarium specimens.**d.** Manuscript will be prepared for interesting specimens. **Q4: a.** DNA extraction and phylogenetic analysis of collected specimens will be done. **b.** GPS based map will be prepared for all collected specimens. **c.** Identification and documentation of all collected wild edible mushrooms will be done. Preparation & submission of final report. **Total tour: 1**
43.	**Trees of Meghalaya, India** Dr. N. Odyuo, Scientist-'E' Dr. R. Kottaimuthu, Scientist-'C' Mr. B.B.T. Tham, Botanist Dr. Y. Mahesh, Senior Preservation Assistant ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1**: Study of the previous collection & identification **Q2**: **One field tour** to Jaintia Hills. **Q3**: **One field tour** to Garo Hills. **Q4: One field tour** to Khasi Hills. Preparation & submission of final report. **Total tours: 3**

44.	**Documentation of parasitic Angiosperms of Meghalaya, India** Dr. R. Kottaimuthu, Scientist-'C' Dr. Y. Mahesh Senior Preservation Assistant Dr. Harekrushna Swain, Senior Preservation Assistant ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1**: Study of the previous collection & identification **Q2**: **One field tour** tour to Garo Hills **Q3**: **One field tour** tour to Khasi Hills. **Q4**: Preparation & submission of final report. **Total tours: 2**
45.	**Phylogeny and evolutionary history of the genus *Magnolia* L. Magnoliaceae) in India** Dr. David Lalsama Biate, Scientist – D ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1:** Study of the previously collected specimens. Exploration, collection and preparation of herbarium specimens to different states of NE India for collection of specimens of *Magnolia.* **Q2: Exploration tour to Meghalaya (local).** **Q3. Exploration tour to** Arunachal Pradesh. DNA sequencing and analysis to validate taxonomy, establish phylogenetic relationships and evolutionary history of *Magnolia* in India. Submission of validated DNA barcode sequences to public database viz. Barcode of Life Database (BOLD) and NCBI. **Q4: Exploration tour to Nagaland & Assam.** Finalization and submission of project report. **Total tours: 3**
HIGH ALTITUDE WESTERN HIMALAYAN REGIONAL CENTRE, SOLAN			
46.	**Ecological and Ethnobotanical status of Medicinal and Aromatic Plants of Ladakh (U.T.), India** Dr. Kuldip S. Dogra, Scientist-E Dr. Kumar Ambrish, Scientist-F Sh. Brajesh Meena, Bot. Asstt..	2024-27	**Q1**: Study of the previous collections. **Q2**: **One field tour** to collect and ecological analysis of medicinal and aromatic plants from different parts of Ladakh (U.T.). Identification of collected plant species. **Q3**: Documentation and updation of nomenclature of collected plant species **Q4**: Compilation of data and finalization of annual report. **Total tour :1**
NORTHERN REGIONAL CENTRE, DEHRADUN ***Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.***			
47.	**Maintenance and conservation of the selected endemic, threatened and economic plants of the garden of NRC, Dehradun.** 1. Dr. S.K. Singh, Scientist F 2. Dr. Puneet Kumar, Scientist-D 3. Shri. Subhasmit Bhattacharya, Bot. Asstt. 4. Dr. Harminder Singh, Botanical Asst. ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1-Q4:** Regular maintenance and conservation of the endemic threatened and economic plant species in the garden of NRC. Documentation of monthly data on flowering and fruiting**.**

48.	**SEM studies of spores of Fern & Fern allies of Western Himalaya.** 1. Dr. Brijesh Kumar, Sci-C, 2. Dr. S.K. Singh, Scientist F 3. Ms. Latika Sagarwal, Bot. Asstt. ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1.** Preparation of spores and SEM imaging and description. **Q2. One filed tour** to Unexplored areas in region for collection. Description. Preparation of spores and SEM imaging. **Q3.** Preparation of spores and SEM imaging and description. **Q4.** Preparation of spores and SEM imaging and description. Finalization and Submission of report. **Field tour: 1**
49.	**Floristic diversity of Jhilmil Jheel Conservation Reserve, Haridwar, Uttarakhand and its environs** Dr. Bhavana Joshi, Botanist**;** Dr. Monika Mishra Botanist & Dr. S. K. Singh, Scientist-F ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1.** Identification and documentation of the collected plant specimens. **Q2. Visit to study area**. Plant collection and data recording. Identification and description writing of collected plants. **Q3. Visit to study area**. Plant collection and data recording. Identification and description writing of collected plants. **Q4. Visit to study area**.. Plant collection and data recording. Identification and description writing of collected plants. Finalization and submission of report. ***Note: Local visits to study area are not field tours and to be managed at regional centre level.***
50.	**A pictorial guide to the flowering plants of Dehradun District** Dr. Puneet Kumar, Scientist-D, Dr. S.K. Singh, Scientist-F & Mr. Subhasmit Bhattacharyya, Bot. Asstt. Dr. Harminder Singh, Botanical Asst. ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1.** Survey, capturing good quality photographs, recording of field data and & collection of plants, if required. **Q2. Visit in and around Dehradun** for capturing good quality photographs, recording of field data and & collection of plants, if required. **Q3. Visit in and around Dehradun** for capturing good quality photographs, recording of field data and & collection of plants, if required. **Q4.** Finalization and submission of report. ***Note: Local visits to study area are not field tours and to be managed at regional centre level.***
51.	**Flora of Saraswati wildlife Sanctuary, Haryana** Dr. Sameer Patil, Botanist ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1.** Study of the previous collections. **Q2. One filed tour** to the study area. Identification and processing of collected specimens. **Q3. One filed tour** to the study area. Identification and processing of collected specimens. **Q4: One filed tour** to the study area. Finalization and submission of project report. **Total field tours: 3**

52.	**Flora of Himachal Pradesh, Vol. IV** [*c.* 731 taxa] **a. Scrophulariaceae-Nyctaginaceae** [*c.*361 taxa], Dr. S.K. Singh, Scientist-F; Dr. Harminder Singh, Bot. Asst.; Ms. Poulami Ghosh, Bot. Asst.; Mr. Subhasmit Bhattacharyya, Bot. Asstt.; Ms. Latika Sagarwal, Bot. Asstt.; Ms. Vaishali Gautam, Bot. Asstt.; Ms. Surbhi Singh, Bot. Asstt. Mrs. Preeti Gangwar, Senior Pres. Asstt **b. Amaranthaceae- Chenopodiaceae**, [*c.* 62 taxa] Dr. Puneet Kumar, Scientist D **c. Polygonaceae** [*c.* 74 taxa] Dr. Sameer Patil, Botanist **d. Basellaceae, Phytolaccaceae & Aristolochiaceae- Loranthaceae** [*c.* 49 taxa] Dr. Bhavana Joshi, Botanist **e. Euphorbiaceae** [*c.*54 taxa] Dr. Brijesh Kumar, Scientist-C **f. Santalaceae- Ulmaceae** [*c.* 52 taxa] Dr. Monika Mishra, Botanist **h. Cannabaceae- Salicaceae** [*c.* 79 taxa] Dr. Kumar Ambrish, Scientist- F & Team *(High Altitude Western Himalayan Regional Centre, Solan)* **Flora of Himachal Pradesh, Vol. V** **a. Poaceae** [*c.* 200 taxa] Dr. Manish K. Kandwal, Scientist-E	2025-2027	**Q1**: Documentation of 310 taxa. **Q2**: Documentation of 310 taxa. **Q3**: Documentation of 311 taxa. **Q4**: Finalization and submission of manuscript.
SIKKIM HIMALAYAN REGIONAL CENTRE, GANGTOK			
53.	**Maintenance of Germplasm of *Rhododendron* L., *Impatiens* Riv ex L., Zingiberaceae and Musaceae in EBG, BSI-SHRC.** 1. Dr. Rajib Gogoi, Scientist F 2. Dr. J. H. Franklin Benjamin, Scientist D 3. Mr. Norbu Sherpa, Sr. Pres. Asst. ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1: One field tour** to North Sikkim. Maintenance of Germplasm. **Q2: One field tour** to east Sikkim and erstwhile Darjeeling district. **Q3**: **One field tour** to north Sikkim: Maintenance of Germplasm **Q4:** Maintenance of Germplasm. **Total tours: 3**

SOUTHERN REGIONAL CENTRE, COIMBATORE

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

54.	**Lichens of Tamil Nadu.** Dr. T.A.M. Jagadesh Ram, Scientist-F ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1:** Morphological, anatomical, chemical characterization, and identification of the previous collections. **Q2: One field tour** to the study area (Dindigul district). Morphological, anatomical, chemical characterization, and identification. **Q3: One field tour** to the study area (Dindigul district). Morphological, anatomical, chemical characterization, and identification. **Q4: One field tour** to the study area (Tenkasi and Sivaganga districts). Morphological, anatomical, chemical characterization and identification. Finalisation and submission of the report. **Total Field Tour : 3**
55.	***Ex situ* Conservation of Endemic and Threatened Plants (Orchids, Medicinal, Economical important and ornamental plants)** Dr. S. Kaliamoorthy, Scientist-'F' Dr.T.S.Sarvanan, Bot. Asstt. Mr. S.K. Arjun, Bot. Asstt. ***Note: The final report to be submitted by March 25th 2026.***	2024-2025 *Extended for one year, upto* ***March, 2026***.	**Q1**: Maintenance, multiplication and conservation of Endemic and Threatened Plants (Orchids, Medicinal, Economical important and ornamental plants) **Q2: One Field Tour to Meghamalai Wildlife Sanctuary**. **Q3: One Field Tour to Meghamalai Wildlife Sanctuary**. **Q4:** Maintenance, multiplication and conservation of Endemic and Threatened Plants (Orchids, Medicinal, Economical important and ornamental plants). Recording of phenology of flowering plants of the Garden. **Total Field tours: 2**
56.	**Threat Assessment of Palms and Rattans of Southern Western Ghats, India** Dr. S.S. Hameed, Scientist-F Dr. M. Murugesan, Scientist-D Dr. V. Ravichandran, Sr. Pres. Asst. ***Note: The final report to be submitted by March 25th 2026.***	2024-2026	**Q1**: Study of the previous collected specimens. **Q2: One Field Tour** to various parts of Western Ghats of Kerala (Palakkad, Wayanad, Kozhikode, Malappuram). **Q3:** Preparation of distribution maps for each species and assessment thereof. **One field tour** to the Nilgiris and Coimbatore districts of Tamil Nadu. **Q4: One Field Tour** to Tenkasi, Tirunelveli, and Kanniyakumari districts of Tamil Nadu. Compilation and submission of the Final Report. **Total Field tours: 3**
57.	**A taxonomic revision of the tribe Semecarpeae (Anacardiaceae) in India.** Dr. M. Murugesan, Scientist-D ***Note: Project shifted from BSI, CNH Howrah to BSI, SRC, Coimbatore)***	2024-2026	**Q1:** Scrutiny of literature Herbarium, indexing, and type image gathering. **Q2 – Q3:** Preparation of detailed description of all targeted species along with distribution maps. Revisionary study of Herbarium specimens**.** Finalization and submission of final report. **Q4: One Field Tour to** various parts of Western Ghats of Kerala. Compilation and submission of final technical report. **Total Field tours: 1**

WESTERN REGIONAL CENTRE, PUNE

Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

58.	**Maintenance of the Botanic Garden of BSI, Pune** 1. Dr. M. Y. Kamble, Scientist E 2. Shri B.P. Kadam, Bot. Asstt. ***Note: The report to be submitted by March 25th every year.***	Ongoing	**Q1 – Q4:** Preparation of database on live plants of garden (real time data). Maintenance and development of Phytodiversity section of Konkan and adjoining areas of Western Ghats
59.	**Conservation through Micropropagation of selected Endemic and Threatened Pteridophytes from Central Western Ghats of Karnataka** 1. Dr. A. Benniamin, Scientist F 2. Mr. Kaushik Sarkar, Bot. Asst. 3. Mr. Rajeshwar Dayal, Bot. Asst. ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1:** Subculture of gametophytes with different medium and PGRs and the study the sprorophyte development. **Q2: One field tour** to the study area. **Q3: One field tour** to the study area. **Q4:** Laboratory work inoculated in different media with PGRs. Finalisation and submission of report. **Total Field tours: 2**
60.	***Ex-situ* conservation of selected Endemic, Endangered and Threatened species of Northern Western Ghats and Konkan, Maharashtra** 1. Dr. M. Y. Kamble, Scientist E 2. Mr. Anubhav Mandal, Pres. Asst. cum Garden Overseer ***Note: The final report to be submitted by March 25th 2026.***	2023-2026	**Q1:** Collection, Introduction, Multiplication and Maintenance. **Q2**: **One Field Tour** to the study area. Collection, Introduction, Multiplication and Maintenance of collected species in the garden. **Q3: One Field Tour** to the study area. Collection, Introduction, Multiplication and Maintenance of collected species in BSI, WRC, Garden. **Q4:** Maintenance of collected species in BSI, WRC, Garden. Finalisation and submission of the final report. **Total Field tours: 2**
61.	**Morpho-Molecular systematics and Bio-potency of terrestrial microfungi of Bhagwan Mahavir (Mollem) National Park , Goa** Dr. Rashmi Dubey, Scientist-'F' Amit D. Pandey, Bot. Asstt.	2024-2027	**Q1 – Q2:** Isolation, identification, Morpho-molecular characterization and molecular phylogeny of terrestrial micro fungi collected during field previous tours **Q3: One Field Tour** to study area. **Q4: One Field Tour** to study area. Isolation, identification, Morpho-molecular characterization and molecular phylogeny of terrestrial micro fungi collected during field previous tours **Total Tour: 2**
62.	**Flora of Goa** Dr. Prashant K. Pusalkar, Scientist-F	2024-2027	**Q1:** Herbarium and literature study and Completion of floristic account of 150 species. **Q2**: Herbarium and literature study and Completion of floristic account of 150 species **Q3: One field tour** to Goa. Herbarium and literature study and Completion of floristic account of 150 species **Q4:** Herbarium and literature study and Completion of floristic account of 150 species. **Total Tour: 1**

63.	**DNA Barcoding of Endemic Plants from the Northern Western Ghats of Maharashtra** Dr. Nithaniyal Stalin A, Botanist Dr. A. Benniamin, Scientist F Kaushik Sarkar, Bot.Asst *(Targets: 30 plants to be studies every year)*	2023 – 2027	**Q1**: PCR amplification and purification and DNA sequencing **Q2**: **One field tour** to the study area. **Q3:** Bio-informatic analysis pipeline preparation and drafting of manuscripts **Q4:** Purification of PCR samples for DNA sequencing. DNA barcodes Submission in NCBI. **Total Field tour: 1**
INDUSTRIAL SECTION INDIA MUSEUM, KOLKATA ***Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.***			
64.	**Barcoding, Database and Digitization of BSIS Herbarium.** 1. Mrs. Sushreya Pal, Botanical Assistant 2. Ms. Shrabasti Das, Sr. Prev. Asstt ***Note: The report to be submitted by March 25th every year.***	2024-2026	**Q1 – Q4:** Total target **10000** Herbarium sheets to be digitized each year.
65.	**A Comprehensive Study on Museum Visitor's Behaviour Numerical Analysis, Statistical Insights, and Modernization of Botanical Gallery- a Pilot study**. Dr. Debasmita Dutta Pramanick, Scientist-D, Mrs. Sushreya Pal, Bot. Asstt. & all Gallery staffs, ISIM, BSI	2024-2026	**Q1. – Q4.**: i) Regular interaction with visitors of different age groups by random sampling method; ii) interviewing the visitors and compilation of set of questionnaires given to the visitors to resolve; iii) counting footfall data manually/by footfall counting machine; iv)compilation of visitors' comments and noting down suggestion of visitors for development of the Gallery.
TECHNICAL SECTION, HEAD QUARTERS, KOLKATA			
66.	**Documentation of economically important seaweeds of the Indian Coast** Dr. S. K. Yadav, Botanist ***Note: The final report to be submitted by March 25th 2026.***	2022-2026 *(Extended for one year)*	**Q1 – Q3.** Documentation and taxonomic study of the economically important seaweeds from the Indian coasts. **Q4.** Final submission of the final report.
67.	**Assessment of Floristic Diversity of Nellai Wildlife Sanctuary, Thenkasi District, Tamil Nadu , India** Dr. K. Karthigeyan, Scientist'F' BSI, HQ & Dr. S. Arumugam, Botanist, SRC, Coimbatore ***Note: Project shifted from BSI, SRC to HQ)***	2024-2027	**Q1**: Study of the previous collected specimens. **Q2: One Field Tour** to the study area. Preparation of herbarium specimens and identification of collected specimens. **Q3: One Field Tour** to the study area. Preparation of herbarium specimens and identification of collected specimens. **Q4: One Field Tour** to the study area. Preparation of herbarium specimens and identification of collected specimens. **Total Field tours: 3**

SUMMARY OF TOURS (FIELD TOURS AND HERBARIUM CONSULTATION TOURS) DURING 2025-26

Sl. No.	Circle Name	Total Field tour				Total Herbarium Consultation tour			
		Q.1	Q.2	Q.3	Q.4	Q.1	Q.2	Q.3	Q.4
1.	AJCBIBG, Howrah		2	3				1	
2.	ANRC, Port Blair	1	3	3			1	1	
3.	APRC, Itanagar	1	1	1					
4.	AZRC, Jodhpur	2	2	4	1		1		
5.	BGIR, Noida			1	1				
6.	CBL, Howrah		1	1	1				1
7.	CNH, Howrah		7	2					
8.	CRC, Allahabad	1	1	3	1				
9.	DRC, Hyderabad	1	2	4	2				
10.	ERC, Shillong		4	4	2				
11.	HAWHRC, Solan		1						
12.	NRC, Dehradun		2	1	1				
13.	SHRC, Gangtok	1	1	1					
14.	SRC, Coimbatore		3	3	3				
15.	WRC, Pune		3	4	1				
16.	ISIM, Kolkata								
17.	Technical Section, Hqtrs., Kolkata		1	1	1				
	Total	**7**	**34**	**36**	**14**		**2**	**2**	**1**

Total Field Tours	**91**
Total Herbarium Consultation Tours	**5**

Total tours (F.T+HCT) =96