





भारतीय वनस्पति सर्वेक्षण / BOTANICAL SURVEY OF INDIA

सी.जी.ओ. कॉम्प्लेक्स / CGO COMPLEX

ततीय एम. एस. ओ. भवन / 3RD MSO BUILDING पाँचवाँ और छठा तल/ 5^{TH} & 6^{TH} FLOOR

डी एफ ब्लॉक, सेक्टर?/ DF BLOCK, SECTOR I

साल्टलेक, कोलकाता-६४/ SALT LAKE, KOLKATA - 700064

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भारत सरकार GOVERNMENT OF INDIA पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE

> फ़ाइल संख्या/File No.: 288/1/ARP/2024-25-Tech. / 732 सेवा में/То

दिनांक/Date: g May 2024

All Head of offices / Units Botanical Survey of India

विषय/ Subject: Research Programmes of BSI for the year 2024-25 - reg.

Sir / Madam,

In continuation of this office letter of even no. dated, 15th April, 2024 regarding circulation of the Interim Annual Research Programmes, I am directed to send herewith the Final Annual Research Programmes (ARP) of BSI for the year 2024-25. This may be circulated among all the executing Scientists / scientific staff for information and necessary compliance.

This issues with the approval of Director, Botanical Survey of India. सधन्यवाद / Thanking you,

भवदीय / Yours sincerely,

वैज्ञानिकएफ/ Scientist 'F'

(प्रभारी, तकनीकीअनुभाग / In- charge, Tech. Section)

Encl: As above.







ANNUAL RESEARCH PROGRAMMES (ARP) 2024-25 OF BOTANICAL SURVEY OF INDIA

Final





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

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Q2. One Field Tour will be conducted to North		Dr. Mahadevakumar, S., Scientist C		and if any previous literature will be taken into
		, ,,		
				Andaman and macrofungal resources will be

	Note: The final report to be submitted by March 25 th 2027.		documented. Processing & identification of specimens collected during Field tour. Identification will be based on micromorphological features. Q3. One Field Tour will be conducted to Nancowry group of Islands and macrofungal resources will be documented. Processing & identification of specimens collected during field tour. Identification will be based on micromorphological features. Q4. Study and Identification of collected specimens. Total Tours: 3
7.	Ethnobotanical Study of Ranchi	2023-2026	Q1: One Field Tour to be conducted to Middle
	communities / settlers of Andaman		Andaman. Study of the collected specimens during
	Islands		Field tours
			Q2. One Field Tour to be conducted to North Andaman.
	1. Dr. Pankaj A. Dhole, Botanist		Study of the collected specimens during Field
	2. Mr. Gautam Anuj Ekka,		tours
	Botanical Assistant		Q3. One Field Tour to be conducted to Little Andaman.
	(Deployed at ANRC, Port Blair)		Study of the collected specimens during Field
			tours
	3. Dr. Lal Ji Singh, Scientist-F		Q4. Study of the collected specimens during Field
	Notes The Good would be be submitted by		tours.
	Note: The final report to be submitted by March 25 th 2026.		Total Tours: 3
8.	Flora of Cinque Wildlife	2023-2025	Q1. One Field Tour to be conducted to Cinque Wildlife
0.	_	2023-2023	
	Sanctuary, South Andaman		Sanctuary, South Andaman. Processing &
			identification of specimens collected during Field
	1. Dr. Anil Kumar Midigesi,		tour.
	Botanist		Q2. One Field Tour to be conducted to Cinque Wildlife
	2. Shri Gautam Anuj Ekka,		Sanctuary, South Andaman. Processing &
	Botanical Assistant		identification of specimens collected during Field
	3. Dr. Lal Ji Singh, Scientist-F		tour.
			Q3. One Field Tour to be conducted to Cinque Wildlife Sanctuary, South Andaman. Processing &
	Note: The final report to be submitted by		identification of specimens collected during Field
	March 25th 2025.		tour.
			Q4. Study of the collected specimens during Field tours
			1 Total Tours: 5
9	A pictorial guide to Flora of Mount	2023-2025	Total Tours: 3 O1: One Field Tour will be conducted to Mount
9.	A pictorial guide to Flora of Mount	2023-2025	Q1: One Field Tour will be conducted to Mount
9.	Manipur National Park, South	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora
9.	•	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification
9.	Manipur National Park, South Andaman	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q2. One Field Tour will be conducted toMount Manipur
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical Assistant	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q2. One Field Tour will be conducted toMount Manipur National Park, South Andaman and flora will be
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q2. One Field Tour will be conducted toMount Manipur National Park, South Andaman and flora will be documented. Processing & identification of
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical Assistant 3. Dr. Lal Ji Singh, Scientist-F	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q2. One Field Tour will be conducted toMount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical Assistant 3. Dr. Lal Ji Singh, Scientist-F Note: The final report to be submitted by	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q2. One Field Tour will be conducted toMount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q3. One Field Tour will be conducted toMount Manipur
9.	Manipur National Park, South Andaman 1. Dr. Pankaj A. Dhole, Botanist 2. Mr. Gautam Anuj Ekka, Botanical Assistant 3. Dr. Lal Ji Singh, Scientist-F	2023-2025	Q1: One Field Tour will be conducted to Mount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q2. One Field Tour will be conducted toMount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field Q3. One Field Tour will be conducted toMount Manipur National Park, South Andaman and flora will be documented. Processing & identification of specimens collected during Field tour.
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			GRAMINIES 2024-25
	Dr. Sudipta Kumar Das, Scientist E Dr. S. Bhakta, Bot. Asstt. New Project		Andaman. Q3. One field tour to be undertaken to Little Andaman for sample collection and One herbarium consultation tour for Microscopy and diagnosis of algal samples. Q4. Processing & identification of specimens collected during field tour. Total tours: 3 + 1 HCT
	CHAL PRADESH REGIONAL CENTRE		ility of the centre.
12.	Metadata preparation and Digitization of ARUN Herbarium	Ongoing	Q1-: Metadata preparation and digitization of 1500 herbarium specimens.
	Dr. Ranjit Daimary, Botanist Note: The report to be submitted by March 25 th every year.		Q2: Metadata preparation and digitization of 1500 herbarium specimens.
			Q3: Metadata preparation and digitization of 1500 herbarium specimens.
			Q4: Metadata preparation and digitization of 1500 herbarium specimens.
13.	Pteridophytic Flora of Arunachal Pradesh – A Pictorial guide	2023-2024 Extended for	Q1: Literature survey and photo plate preparation. Q2: Literature survey and submission of final report.
	 Dr. Vineet Kumar Rawat, Sci. E Sh. Suman Halder, Botanist 	6 months, upto	Updation and final submission of project report. Note: The report to be submitted by September 2024.
	3. Sh. Arijit Ghosh, Bot. Asstt.	September 2024.	
14.	Taxonomic studies on Wild edible Mushrooms of Arunachal Pradesh Dr. Arvind Parihar, Scientist - C	2023-2026 *Note: One tour of Project no 15 and 16	Q1- One tour to the Eastern Arunachal Pradesh (Siang, Upper Siang, Dibang Valley Districts) for the Survey and collection of Wild Edible Mushroom Specimens. Q2 One tour to the Eastern Arunachal Pradesh
	Note: The final report to be submitted by March 25th 2026.	to be clubbed.	(Anjaw, Lohit and Changlang Districts) for the Survey and collection of Wild Edible Mushroom Specimens. Q3 One Herbarium Consultation tour to CAL
	25 2020.		Study and characterisation of collected specimens. Q4One Herbarium Consultation tour to CAL (Central National Herbarium, Howrah) for the Microscopic Study and identification of collected specimens. Total Tour: 2 F.T. & 2 H.C.T.
15.	Taxonomy and Ecology of	2024-2026	Q1. Literature study.
	Gesneriaceae of Arunachal Pradesh	*Note: One tour of	Q2. One field tour to Eastern parts of Arunachal Pradesh.Q3. One field tour to Western parts of Arunachal
	Dr. Krishna Chowlu, Sci-D, Akshath Shenoy, Senior Preservation	Project no 15 and 16 to be clubbed.	Pradesh. Identification and description of collected specimens.
	Assistant New Project		Q4. Identification, description writing and photoplate preparation of previously collected specimens.
			Total tours: 2

ARID ZONE REGIONAL CENTRE, JODHPUR Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.				
16.	Flora of Mount Abu Wilflife Sanctuary,	2021-2024	Updation and final submission of project report.	l
	Rajasthan 1. Dr. Sanjay Mishra, Sci. D (BSI, CRC, Allahabad) 2. Dr. S.L. Meena, Scientist-E	Extended upto September, 2024	Note: The report to be submitted by September, 2024.	

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17.	Grasses of Rajasthan	2023-2026	Q1. Library consultation and herbarium studies. Q2. One Field exploration tour to Rajasthan.
	Dr. Pushpa Kumari, Scientist-E		Q3. Study of collected specimens and herbarium
	Note: The final report to be submitted by March		study.
	25 th 2026.		Q4. Herbarium study and Identification of
			samples. Total tour: 1
18.	Vocatation of Indian descrit of	2023-2027	Q1. Processing & identification of Herbarium
10.	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.	2023-2021	 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
	Note: The final report to be submitted by March 25 th 2027.		
19.	Floristic studies in Ramgarh	2024-2027	Q1: Procurement of permissions.
	Vishdhari Tiger Reserve, Rajasthan,		Q2. One field tour to study area, collection,
	India		Identification & inventorisation Q3 Identification of collected specimens and data
	Dr. Rajeev Kumar Singh, Botanist		analysis.
	Dr. S.L. Meena, Scientist E Mr. Ramesh Kumar, Bot. Asstt.		Q4. One field tour, collection, Identification &
	New Project		inventorisation
	·		Total: 2 field tours.
20.	Maintenance and conservation of selected Economically important, Endemic and Threatened species of the Arid region	Ongoing	 Q1: Maintenance and conservation of Economic, ,
	 Dr. S.L. Meena, Scientist-E Dr. C.S. Purohit, Scientist-D Shri Amit Kumar, Sr. Pres. Asstt. Note: The report to be submitted by March 25th)	region in the experimental Garden of AZRC. Introduction of 10 woody species in the garden. Q3: One field tour. Maintenance and conservation of introduced RET species & their further multiplication. Q4: Maintenance and conservation of introduced RET
	every year.		species & their further multiplication. Total tour: 1
21.	Metadata preparation and	Ongoing	Q1 – Q4:
	digitization of herbarium specimens	- 6,	1. Completion of metadata of herbarium specimens
	1 D. B.V. C. J. D.		2. Digitization of 2400 herbarium specimens (600
	1. Dr. R.K. Singh, Botanist 2. Dr. P.K. Deroliya, Bot. Asstt.		per quarter by each). 3. Identification of 40 unidentified specimens,
	3. Shri Ramesh Kumar, Bot. Asstt.		accession and incorporation in
	4. Shri Amit Kumar, Sr. Pres. Asstt.)		every quarter. (10 specimens by each)
	Note: The report to be submitted by March 25 th every year.		
22.	Landscape analysis and floristic	2023-26	Q1. One field tour - Collection, identification
	diversity of Keoladeo national park and Sāmbhar lake Ramsar sites of		inventorisation, & field data analysis. Q2. Preparation of Classified maps of Ramsar sites
	Rajasthan, India.		and identification of collected specimens of
			previous tours and field data analysis.
	Dr. Ravi Kiran Arigela, Scientist - C, Dr. S.L. Meena, Scientist - E,		Q3. One field tour - Collection, identification inventorisation & field data analysis
	Dr. Purushottam Kumar Deroliya,		Q4. Identification of collected specimens of previous
	Bot. Asst.		tours and field data analysis.
			Total: 2 field tours.

BOTANIC GARDEN OF INDIANREPUBLIC, NOIDA

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

23.	Mass germination and multiplication of Horticultural and ornamental plants/ season flowers in BGIR. 1. Dr. Sandeep Kr. Chauhan, Scientist—F 2. Ms L.I. Chanu, Botanist 3. 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 flower/ No separate field tour is allowed
			Note: List of the target species to be approved by the Director, BSI.
24.	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. 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	Ongoing 2023-2026	 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. Note: List of the target species to be approved by the Director, BSI. 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.
Ś	 Dr. Sandeep Kr. Chauhan, Scientist F Dr. G. S. Panwar, Scientist E Ms L.I. Chanu, Botanist Note: The final report to be submitted by March 25th 2026.		Note: List of the target species not less than 50 species, to be approved by the Director, BSI.
26.	QR based plant modeling based plant labeling for the Plant species in entire woodland of BGIR, Noida 1. Dr. Sandeep Kr. Chauhan, Scientist F 2. Dr. G. S. Panwar, Scientist E 3. Dr. Priyanka A. Ingle, Scientist D 4. Dr. M.K. Singhadiya, Botanist Note: The final report to be submitted by March	2023-2025	Q1 – Q4: GSP modeling of all plants identified with numbers. Preparation of plant spp description in detail for QR code. QR code of all the species of plants of BGIR to be completed.

	25 th 2026.		GRAMMES 2024-25
	25 2020.		
CENTR	AL BOTANICAL LABORATORY, HOW	'RAH	
27.	Nutraceutical studies of wild edible selected plants of North-East Region in India 1. Dr. Tapan Seal, Scientist-E 2. Dr. Kaushik Chaudhuri, Botanist 3. Ms. Basundhara Pillai, Botanist Note: The final report to be submitted by March 25th 2025.	2022-2025	No of Target plants: Twenty Q1 - Q4: Proximate composition, minerals content, Water soluble vitamins (C, B1, B2, B3, B5, B6, B9), Antioxidant properties, Antinutritional composition of twenty wild plants.
28.	Flora, Phytosociology 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' New Project	2024-2027	 Q1: Literature survey. Q2. Preparation of Checklist; One Field survey tour; identification of the collected specimens Q3 One Field tour; herbarium consultation at CAL; identification and description of the identified taxa. Q4. One field tour to the study area. Total: 3 field tours
	AL NATIONAL HERBARIUM, HOWRA		lity of the centre.
29.	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	2022-2026	 Q2: Two field Tour (One to Uttarakhand and another to Himachal Pradesh) Q1 – Q4: Micromorphological characterization of the fungal samples, culturing of the edible Boteloid mushrooms, Germplasm conservation. Mutligene molecular phlogeny, documentation of the interesting findings. Field tours: 2
30.	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. 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 E Note: The final report to be submitted by March 25th 2026	2023-2026	 Q1: Field tour in north east India/ east India to collect multiple accessions of the 5 species from different localities. Q2: Consultation of literature and herbarium specimens; field tour in north east India/ South India to collect multiple accessions of the 5 species from different localities Q3: Morphological, phytochemical, molecular studies of the collected specimens. Q4: Morphological, phytochemical, molecular studies of the collected specimens. Total: 2 Field tours Note: List of the 10 targeted species every year to be submitted to HQ. Q1: Consultation of herbarium specimens and literature studies; one field tour to Arunachal Pradesh. Q2: One field tour to Sikkim. Q3: Morphological characterization of collected specimens. Q4: Identification of the collected specimens. Total: 2 Field tours
32.	25th 2026. Taxonomic Revision of LIGULARIA Cass (Asteraceae) in India 1. Dr. Partha Pratim Ghoshal, Botanist	2023-2026	Q1: Literature survey Q2: One field tours to Arunachal Pradesh and herbarium consultation at ARUN. Q3: One field tour to Sikkim; Identification of collected specimens.

2. Dr. Shyam Biswa, Botanical Assistant Note: The final report to be submitted by March 25th 2026. 33. Digitization of herbarium specimens (about 15000) belonging to the family Asteraceae Dr Kumar Avinash Bharati, Scientist-D	2024-2025	Q4: Identification of collected specimens and morphological characterization of specimens. Total: 2 Field tours & 1 HCT Q1-Q4: Sorting, curation, barcoding, scanning and metadata preparation of about 15000 specimens will be completed. The scanned images and associated metadata will be uploaded on IVH portal (https://ivh.bsi.gov.in/).
Dr Anand Kumar Botanist New Project		aproduced on 1 v 11 portair (inteps://1vin.osi.gov.in/).
34. 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 New Project	2024-2026	 Q1: Literature and herbarium consultation. Q2: Five macrofungal tours will be undertaken to Burdwan (once), Bankura (twice), Midnapore (twice) districts during rainy season (July to September). Macromorphological characterization, recording of ethnomycological data with these edible mushrooms will also be conducted in the field. Q3 - Q4: Description, micromorphological illustration, phylogenetic inferences will be prepared for the respective collections. Specimens would be cultured in artificial culture media and preserved. Nutraceutical properties will be assessed. Initiative for cultivation will be taken with the saprophytic species. Manuscript will be prepared and communicated for interesting collection(s).
35. A taxonomic revision of the tribe Semecarpeae (Anacardiaceae) in India.	2024-2026	 Q1: Scrutiny of literature Herbarium, indexing, and type image gathering. Preparation of preliminary checklist. Q2 – Q4: Study of Herbarium specimens at CNH and
Dr. M. Murugesan, Scientist-D		preparation of preliminary checklist.

CENTRAL REGIONAL CENTRE, ALLAHABAD
Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.

36.	Documentation of plant diversity in Sur Sarovar –A Ramsar site in Uttar Pradesh Dr. Vinay Ranjan, Scientist – 'E' B. Lakshmanudu, Sr. Preservation Assistant New Project	2024-2025	 Q1: Literature collection & Regional herbarium consultation Q2: One field tour to the study area. Q3: Identification and documentation of specimens collected. Q4: One field tour to the study area. Writing, finalization and submission of Manuscript. Field tours: 2
37.	Flora of Amangarh Tiger Reserve, Bijnor, Uttar Pradesh Dr. Onkar Nath Maurya, Scientist-D New Project	2024-2027	 Q1: Study of relevant literature. Q2: One field tour to the study area. Q3: Identification and documentation of collected specimens. Q4: One field tour to the study area. Processing & identification of the collected specimens Field tours: 2
38.	Flora of Madhav National Park, Shivpuri (Madhya Pradesh) Dr. Sanjay Mishra, Scientist-'D' New Project	2024-2027	 Q1: Literature collection & Regional herbarium consultation Q2: One field tour to the study area. Q3: Identification and documentation of specimens collected. Q4: One field tour to the study area.

			E'-114
		2024 2025	Field tours: 2
39.	Floristic diversity of Sandi Ramsar	2024-2025	Q1: Study of relevant literature and available
	Site, Hardoi District, Uttar Pradesh		Herbarium specimens
			Q2: One field tour to the study area.
	Dr. Nitisha Srivastava, Botanist		Q3: Processing and identification of herbarium
	New Project		specimens collected in the previous tour
			Q4: One field tour to the study area. Writing,
			finalization and submission of Manuscript. Field tours: 2
40		2024 2027	
40.		2024-2027	Q1: Literature collection & Regional herbarium
	(Ranunculaceae to Poaceae)		consultation Q2: One field tour to the study area.
			Q3: Identification and documentation of specimens
	Dr. Vinay Ranjan, Scientist-E,		collected.
	Dr. O.N. Maurya, Scientist-D,		Q4: One field tour to the study area.
	Dr. Sanjay Mishra, Scientist-D		Field tours: 2
	New Project		
41.		2024-2026	Q1 - Q4: Regular maintenance of herbarium,
	'BSA' – Botanical Survey of India,		Preparation of database and incorporation of
	Central Regional Centre, Prayagraj		metadata of all digitised herbarium, specimens.
	Central Regional Centre, I layagiaj		Digitization of herbarium.
	Dr. Sanjav Michra Scientist (D)		
	Dr. Sanjay Mishra, Scientist 'D' Dr. S. Muthukumar, Botanist		Target: 16,000 herbarium specimens per year.
	Smt. Neelima A. M, Botanical Assistant		
	Shri. B. Lakshmanudu, Senior Preservation		
	Assistant		
	New Project		
	Troject		
DECCA	N REGIONAL CENTRE, HYDERABAD		
	urs to be clubbed as per the requirement and b		ity of the centre.
42.	Preparation of metadata,	Ongoing	Q1-Q4: Digitization and development of Database of
	digitization and maintenance of		Herbarium specimens.
	herbarium specimens		Q1-Q4: Development of Museum of DRC,
		\mathcal{O}	Q1-Q4: Development of Museum of DRC, Hyderabad.
	herbarium specimens Dr. G. Swarnalatha, Botanist.	\mathcal{O} .	Hyderabad.
	Dr. G. Swarnalatha, Botanist.	20.	
		20.	Hyderabad. Note: Previous report on database of Herbarium specimens to be
43.	Dr. G. Swarnalatha, Botanist. Note: The metadata report to be submitted by	2022-2026	Hyderabad. Note: Previous report on database of Herbarium specimens to be
43.	Dr. G. Swarnalatha, Botanist. Note: The metadata report to be submitted by March 25th 2024.	2022-2026	Hyderabad. Note: Previous report on database of Herbarium specimens to be submitted to HQ.
43.	Dr. G. Swarnalatha, Botanist. Note: The metadata report to be submitted by March 25th 2024. Lichens of Telangana state	2022-2026	Hyderabad. Note: Previous report on database of Herbarium specimens to be submitted to HQ. Q1: Identification of specimens collected during the previous tour. Q2: One field tour. Processing of specimens and
43.	Dr. G. Swarnalatha, Botanist. Note: The metadata report to be submitted by March 25th 2024.	2022-2026	Hyderabad. Note: Previous report on database of Herbarium specimens to be submitted to HQ. Q1: Identification of specimens collected during the previous tour. Q2: One field tour. Processing of specimens and Identification of specimens collected during the
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44.	Dr. G. Swarnalatha, Botanist. Note: The metadata report to be submitted by March 25th 2024. Lichens of Telangana state Dr. Swamalatha G., Botanist. Note: The final report to be submitted by March 25th 2026. Flora of Sri Lankamalleswara Wildlife Sanctuary (464.42 sq.km) (Kadapa & SPSR District, Nellore) 1. Dr. Sankara Rao Mudadla, Scientist D 2. Dr. P. Harikrishna, Bot. Asst. Note: The final report to be submitted by March 25th 2025. Flora of Pakhal Wildlife Sanctuary, Telangana	2022-2025	Hyderabad. Note: Previous report on database of Herbarium specimens to be submitted to HQ. Q1: 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: Two field tour. Processing of specimens and Identification of specimens collected during the previous tour. Q4: Identification and documentation of collected plants. Total tours: 03 Q1: One field tour the study area 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. Total tours: 03 Q1: One field tour the study area and Identification of specimens collected during the previous tour. Q2: One field tour the study area and Identification of specimens collected during the previous tour. Q2: One field tour and identification & description of specimens collected during the previous tour. Q2: One field tour and identification & description of specimens collected during the previous tour.
44.	Dr. G. Swarnalatha, Botanist. Note: The metadata report to be submitted by March 25th 2024. Lichens of Telangana state Dr. Swamalatha G., Botanist. Note: The final report to be submitted by March 25th 2026. Flora of Sri Lankamalleswara Wildlife Sanctuary (464.42 sq.km) (Kadapa & SPSR District, Nellore) 1. Dr. Sankara Rao Mudadla, Scientist D 2. Dr. P. Harikrishna, Bot. Asst. Note: The final report to be submitted by March 25th 2025. Flora of Pakhal Wildlife Sanctuary,	2022-2025	Hyderabad. Note: Previous report on database of Herbarium specimens to be submitted to HQ. Q1: 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: Two field tour. Processing of specimens and Identification of specimens collected during the previous tour. Q4: Identification and documentation of collected plants. Total tours: 03 Q1: One field tour the study area 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. Total tours: 03 Q1: One field tour the study area and Identification of specimens collected during the previous tour.

			documentation of collected plants.
	Note: The final report to be submitted by March 25 th 2026.		Q4: Identification and documentation of collected plants. Total tours: 03
			1 Otal tours: 05
	RN REGIONAL CENTRE, SHILLONG urs to be clubbed as per the requirement and b	budgetary availabili	ity of the centre.
46.	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: One Collection Tour to Dima Hasao, Assam for Enrichment, Replenishment and New addition to Botanic Garden Collection if any. Q3: One Collection Tour to Garo Hills Meghalaya 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.
47.	Maintenance of Herbarium of ERC, Shillong (ASSAM) 1. Smt. Nandita Sarma, Bot. Asst. 2. Shri. Vijay, Bot. Asst. 3. Miss. Debala Tudu, Bot. Asst. Note: The report to be submitted by March 25 th	Ongoing	Total tours: 2 Q1 - Q4: Regular maintenance of herbarium Preparation of database and incorporation of metadata of all digitised herbarium specimens. Digitization of herbarium specimen of ASSAM. Target: 15,000 herbarium specimens (5000 per head per year).
48.	Backlog clearance of unidentified Herbarium sheets at ASSAM. 1. Smti. Nandita Sarma, Bot Asstt., 2. Shri. Vijay, Bot Asstt., 3. Shri. Harminder Singh, Bot Asstt., 4. Smti. Debala Tudu, Bot Asstt., 5. Shri. Harekrushna Swain, Sr. Preservation Asstt., 6. Shri. Y Mahesh, Sr.Preservation Asstt. Under the supervision of Dr. Chaya Deori, 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.
49.		2023-2026	Q1: a. Literature consultation and DNA extraction from previously collected (remaining) specimens. b. Two tours in Jowai, Nongkhlaw and Narpuh WLS. Q2: One tour to Garo Hills (Nokrek WLS, Baghmara, William Nagara, Tura peak). 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.

DNA barcoding and Phylogenetic analysis of the endemic genus <i>Hypericum</i> of North-East India and Chemical composition, antioxidant activities of the essential oil produced.	2022-2024 Extended upto 30 th September, 2024	Q2: One Collection Tour. Updation and final submission of project report. Note: The report to be submitted by September, 2024.
1. Dr. Deepu Vijayan, Scientist-D Mr. Harekrushna Swain, Senior Preservation Assistant	2024	
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	2024-2026	 Q1: Literature survey and study earlier collections at ASSAM& CAL Q2: Collection tour to Khasi Hills Q3: Literature survey and study earlier collections Q4: Collection tour to Jaintia Hills, Photography of plants. Total tours: 02
Documentation of parasitic Angiosperms of Meghalaya, India Dr. R. Kottaimuthu, Scientist-'C' Dr. Y. Mahesh Senior Preservation Assistant Dr. Harekrushna Swain, Senior Preservation Assistant	2024-2026	Q1: Literature survey and study earlier collections at ASSAM & CAL Q2: Collection tour to Khasi Hills Q3: Collection tour to Garo Hills Q4: Collection tour to Jaintia Hills Total tours: 03
of the genus Magnolia L. Magnoliaceae) in India Dr. David Lalsama Biate, Scientist – D New Project	2024-2020	 Q1: Herbarium and literature studies Q2 - Q4: Exploration, collection and preparation of herbarium specimens to different states of NE India for collection of specimens of Magnolia. Genomic DNA extraction from herbarium and fresh specimens of gymnosperms available at ASSAM and Survey and exploration tours for collection of selected species. Polymerase Chain Reaction (PCR) amplification using selected nuclear and chloroplast DNA markers viz. ITS, rbcL and matK. 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.
LTITUDE WESTERN HIMALAYAN PE	GIONAL CENTI	PE SOLAN
LITTUDE WESTERN HIMALATAN RE	COIONAL CENTI	NE, SOLAIN
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	2024-27	 Q1: Literature survey and collection of secondary data. One field tour in the month of June (2024) to collect and ecological analysis of medicinal and aromatic plants from different parts of Ladakh (U.T.). Q2: Identification of collected plant species. Q3: Documentation and updation of nomenclature of
	analysis of the endemic genus Hypericum of North-East India and Chemical composition, antioxidant activities of the essential oil produced. 1. Dr. Deepu Vijayan, Scientist-D Mr. Harekrushna Swain, Senior Preservation Assistant 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 New Project Documentation of parasitic Angiosperms of Meghalaya, India Dr. R. Kottaimuthu, Scientist-'C' Dr. Y. Mahesh Senior Preservation Assistant Dr. Harekrushna Swain, Senior Preservation Assistant New Project Phylogeny and evolutionary history of the genus Magnolia L. Magnoliaceae) in India Dr. David Lalsama Biate, Scientist – D New Project LTTTUDE WESTERN HIMALAYAN RE	analysis of the endemic genus Hypericum of North-East India and Chemical composition, antioxidant activities of the essential oil produced. 1. Dr. Deepu Vijayan, Scientist-D Mr. Harekrushna Swain, Senior Preservation Assistant 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 New Project Documentation of parasitic Angiosperms of Meghalaya, India Dr. R. Kottaimuthu, Scientist-'C' Dr. Y. Mahesh Senior Preservation Assistant Dr. Harekrushna Swain, Senior Preservation Assistant New Project Phylogeny and evolutionary history of the genus Magnolia L. Magnoliaceae) in India Dr. David Lalsama Biate, Scientist - D New Project Ecological and Ethnobotanical status of Medicinal and Aromatic Plants of Ladakh (U.T.), India

NORTHERN REGIONAL CENTRE, DEHRADUN				
Note: To	Note: Tours to be clubbed as per the requirement and budgetary availability of the centre.			
55.	Grasses of western Himalayas	2021- 2024	Updation and final submission of project report.	
	Dr. Manish Khandwal, Scientist-'E	Extended for One year, upto March 2025.	Note: The report to be submitted by March 2025.	
56.	Maintenance and conservation of the selected endemic, threatened and economic plants of the garden of NRC, Dehradun.	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.	
	 Dr. S.K. Singh, Scientist F Dr. Puneet Kumar, Scientist-D Shri. Subhasmit Bhattacharya, Bot. Asstt. 			
	Note: The report to be submitted by March 25 th every year.			
57.	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.	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. 	
	Note: The final report to be submitted by March 25 th 2026.		Q4. Preparation of spores and SEM imaging and description. Total tours: 01 field tour	
58.	Flora of Himachal Pradesh, Vol. 3 [c. 800 taxa]	2023-2025	Q1: Documentation of 133 taxa. Q2: Documentation of 133 taxa Q3: Documentation of 134 taxa	
59.	a. Rubiaceae- Plumbaginaceous except Asteraceae [c. 100 taxa] 1. Dr. Puneet Kumar, Scientist-D b. Asteraceae [c.401 taxa], 2. Dr. S.K. Singh, Scientist-F; 3. Dr. Monika Mishra, Botanist; 4. Ms Poulami Ghosh, Bot. Asst.; 5. Mr. Subhasmit Bhattacharyya, Bot. Asstt.; 6. Ms. Latika Sagarwal, Bot. Asstt.; 7. Mrs. Priti Gangwar, Senior Pres. Asstt.; c. Primulaceae- Apocynaceae, [c. 125 taxa] 8. Dr. Bhavana Joshi, Botanist d. Loganiaceae – Polemoniaceae, Ehretiaceae, Convolvulaceae [c. 105 taxa] 9. Dr. Sameer Patil, Botanist e. Boraginaceae [c. 56 taxa] 10. Dr. Kumar Ambrish, Scientist-F 11. Dr. Kuldip S. Dogra, Scientist-E (High Altitude Western Himalayan Regional Centre, Solan) f. Cuscutaceae & Solanaceae [c.52 taxa] 12. Dr. Brijesh Kumar, Scientist-C Note: The final report to be submitted by March 25th 2025. Floristic diversity of Jhilmil Jheel	2024-2026	Q1: Literature survey and collection of reference	
33.	Conservation Reserve, Haridwar, Uttarakhand and its environs	2021 2020	Q2: One field tour to the area and collection of plant specimens Q3: Identification and documentation of the collected	
	Dr. Bhavana Joshi, Botanist; Dr. Monika Mishra Botanist & Dr. S. K. Singh, Scientist-F New Project		plant species Q4: Identification and documentation of the collected plant species. One field tour to the area and collection of plant specimens Total tours: 2 field tours	
60.	A pictorial guide to the flowering plants of Dehradun District	2024-2026	Q1: Literature survey to make an inventory Q2 - Q3: Survey, capturing good quality photographs, recording of field data and & collection of plants,	

	Dr. Puneet Kumar, Scientist-D, Dr. S.K. Singh, Scientist-F & Mr. Subhasmit Bhattacharyya, Bot. Asstt. New Project		if required. Q4: Identification of the collected specimens, literature survey, consultation of the herbarium.
61.	Flora of Saraswati wildlife Sanctuary, Haryana Dr. Sameer Patil, Botanist New Project	2024-2026	 Q1: Literature (Haryana and neighbouring areas) and Herbarium (BSD & DD) review. Preparation of tentative species list. Q2: One field tour to the study area. Q3: One field tour to the study area. Identification and processing of collected specimens. Q4: Identification and processing of collected specimens.
SIKKIN	I HIMALAYAN REGIONAL CENTRE, C	GANGTOK	
62.	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	Ongoing	 Q1: One field tour to North Sikkim. Maintenance of Germplasm Q2: One field tour east Sikkim and erstwhile Darjeeling district. Q3: Maintenance of Germplasm Q4: Maintenance of Germplasm Total tours: 2
63.	Flora of Kitam Bird Sanctuary, South	2022-2025	Q1: One field tour.
	1. Dr. Rajib Gogoi, Scientist F 2. Dr. Monalisa Dey, Scientist D 3. Dr. Basant Singh, Bot. Asst. Note: The final report to be submitted by March 25th 2024.	Extended upto 31st March, 2025	Q2: One field tour. Q3-Q4: Updation and final submission of project report. Note: The report to be submitted by March 2025.
	ERN REGIONAL CENTRE, COIMBATO urs to be clubbed as per the requirement and b		ty of the centre.
65.	Lichens of Tamil Nadu. Dr. T.A.M. Jagadesh Ram, Scientist-E Note: The final report to be submitted by March 25th 2026. Assessment of Floristic Diversity of Nellai Wildlife Sanctuary, Thenkasi	2023-2026	 Q1: Morphological, anatomical, chemical characterization, and identification. One field tour to Tenkasi, Ramanathapuram and Virudhunagar districts. Q2: One field tour to Kanyakumari, Tirunelveli and Toothukudi districts. Q3: Morphological, anatomical, chemical characterization, and identification. Q4: Morphological, anatomical, chemical characterization and identification. Total Field Tour: 2 Q1: Literature survey and forest permission Q2: Literature, herbarium consultation in MH and
	District, Tamil Nadu, India Dr. K. Karthigeyan, Scientist'F' & Dr. S. Arumugam, Botanist New Project		field visit to proposed study area Q3: One Field Tour to the study area. Q4: One Field Tour to the study area. Preparation of herbarium specimens and identification of collected specimens. Total tours: 2
66.	Ex situ Conservation of Endemic and Threatened Plants (Orchids, Medicinal, Economical important and ornamental plants)	2024-2025	 Q1: Maintenance, multiplication and conservation of Endemic and Threatened Plants (Orchids, Medicinal, Economical important and ornamental plants) Q2: One Field Tour Meghamalai Wildlife

67.	Dr. S. Kaliamoorthy, Scientist-'F' Dr.T.S.Sarvanan, Bot. Asstt. Mr. S.K. Arjun, Bot. Asstt. New Project Threat Assessment of Palms and Rattans of Southern Western Ghats, India Dr. S.S. Hameed, Scientist-F Dr. M. Murugesan, Scientist-D Dr. M.U. Sharief, Scientist-F Dr. V. Ravichandran, Sr. Pres. Asst. New Project	2024-2026	Sanctuary. Q3: One Field Tour Meghamalai Wildlife Sanctuary. Q4: Maintenance, multiplication and conservation of Endemic and Threatened Plants (Orchids, Medicinal, Economical important and ornamental plants) Total Field tours: 2 Q1: Scrutiny of literature and consultation of herbarium holdings at MH. Preparation of preliminary checklist. Q2: One Field Tour to Tirunelveli Hills and the adjoining Areas. Q3: One Field Tour Anamalais Area (Tamil Nadu & Kerala Part). Q4: Processing of collected specimens, Identification of plants, preparation of description, taxonomic keys, etc. Total Field tours: 2
	RN REGIONAL CENTRE, PUNE urs to be clubbed as per the requirement and b	udgetary availabili	ty of the centre.
68.	Bambusicolous Fungi of Goa. Dr. Rashmi Dubey, Scientist-F	2020-2024 Extended for 6 months, upto September 2024.	Updation and final submission of project report. Note: The report to be submitted by September 2024.
69.	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
	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 Central Western Ghats of Karnataka for collection of Pteridophytes with mature spores for <i>in-vitro</i> spore and tissue culture Q3: One field tour to Central Western Ghats of Karnataka for collection of Pteridophytes with mature spores for <i>in-vitro</i> spore and tissue culture. Q4: Processing and study of collected specimens. Total Field tours: 2
71.	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: One Herbarium Consultation tour to SUK, Kolhapur. One Field Tour to Northern Western Ghats and Konkan. Collection, Introduction, Multiplication and Maintenance. Q2: One Herbarium Consultation tour to BLAT, Mumbai. One Field Tour to Northern Western Ghats and Konkan. Collection, Introduction, Multiplication and Maintenance of collected species in the garden. Q3: One Field Tour to Northern Western Ghats and Konkan. Collection, Introduction, Multiplication and Maintenance of collected species in BSI, WRC, Garden. Q4: One Field Tour in Northern Western Maharashtra and Konkan. Collection,

		Location	Introduction, Multiplication and Maintenance of collected species in BSI, WRC, Garden. Total Field tours: 4 (2 FT+2 HCT)
72.	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. New Project	2024-2027	Q1: Molecular identification of remaining Bambusicolous Fungi. Collection of literature. Q2: Writing and submission of final manuscript (Bambusicolous Fungi of Goa). Q3: One Field Tour to study area. Q4: Identification of host substrates. Processing of samples. Molecular characterization and Phylogeny of some interesting species. Total Tour: 1
73.	Flora of Goa Dr. Prashant K. Pusalkar, Scientist-F New Project	2024-27	 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 North 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
74.	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: Herbarium consultation of endemic taxa of Northern Western Ghats housed at BSI, WRC. Literature survey of DNA barcoding studies and on type locations of targeted species. Setting up of DNA Barcoding Lab. Q2: DNA Isolation protocol standardization at WRC laboratory and PCR amplification of collected samples using rbcL barcodes. One field tour to NW Ghats of Maharashtra. Q3: Wet Lab work on DNA Barcoding. Purification of PCR amplified samples. Preparing samples for DNA sequencing Q4: One field tour to the Northern Western Ghats of Maharashtra to collect targeted endemic species for DNA Barcoding. Total Field tour: 2
	FRIAL SECTION INDIA MUSEUM, KOI urs to be clubbed as per the requirement and b Barcoding, Database and Digitization of BSIS Herbarium. 1. Mrs. Sushreya Pal, Botanical Assistant 2. Ms. Shrabasti Das, Sr. Prev. Asstt		
76.	Collection of economically important plants/ plant products for enrichment of Botanical Gallery, ISIM, BSI with special emphasis on development of new Ethnobotanical Section. Dr. Debasmita Dutta Pramanick, Scientist-D, Mr. Ranjit Patra, Sr. Preserv. Assistant Dr. Manas Bhaumik, Scientist F,	2024-2025 (Onging)	 Q1 - Q3: Literature survey onethnobotany of tribal groups inhabiting in Southern-Western Districts of West Bengal; listing of tribes with restricted population (PVTGs) in West Bengal. Q.2 One field tour to Assam and Arunachal Pradesh in Q3, for economically important and Ethnobotanical collection of plants and plant products (Dr. M. Bhaumik, Scientist F) Q4: One Field Tour to selected tribal inhabited regions of South-Western Districts of West Bengal for procurement of plant products along with collection of information for new

	BSI ANNUAL RESEARCH PROGRAMMES 2024-25			
	Botanical Asstt, & MTS. New Project		Ethnobotanical Section at Botanical Gallery (Dr. Debasmita Dutta Pramanick). Total Tour: 2	
77.	A Comprehensive Study on Museum Visitor's Behaviour Numerical Analysis, Statistical Insights, and Modernization of Botanical Gallerya Pilot study. Dr. Debasmita Dutta Pramanick, Scientist-D, Mrs. Sushreya Pal, Bot. Asstt. & all Gallery staffs, ISIM, BSI New Project	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 questionaries 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	
TECHN	TECHNICAL DIVISION, HEADQUARTERS			
78.	Wild useful/edible plants of Arunachal Pradesh 1. Dr. Umeshkumar L. Tiwari, Scientist-D 2. Dr. S.S. Dash, Scientist-F 3. Dr. K. Chowlu, Scientist-D, APRC	Extended for 6 months, upto September 2024.	Updation and final submission of project report. Note: The report to be submitted by September 2024.	
79.	Documentation of economically important seaweeds of the Indian Coast Dr. S. K. Yadav, Botanist Note: The final report to be submitted by March 25th 2025.	2022-2025	 Q1 – Q3. Documentation and taxonomic study of the economically important seaweeds from the various coastal states. Q3. Q4. Finalinaction and submission of the final report. 	
80.	Study of Floristic Diversity and the impact of pollution on selected wetlands in 5 district of West Bengal Ms. Sinchita Biswas, Bot. Asstt. Dr. Umeshkumar L. Tiwari,	2024 - 2027	Q1-Q4: Literature survey, One Field Tour in each quarter, Data Collection and Analysis, Identification of plants. Total Field Tours: 4	
	Scientist-'D'			