

List of projects underway during F.Y. 2022-23

S.N.	Project Number	Project title	Funding Agency	Project Duration
1	GAP 2239	Establishment of a DUS Test Centre at CSIR-NBRI, Lucknow for Bougainvillea, Canna and Gladiolus crops.	PPV&FRA, Min. Agriculture, New Delh.	01-Feb-2012 to 31-Mar-2023
2	GAP 2542	EIACP Programme centre RP at National Botanical Research Institute (NBRI), Lucknow on Indicators of Plants & Pollution	MoEF&CC, New Delhi	01-Apr-2022 to 31-Mar-2026
3	GAP 3444	Bioaccumulation and bio-magnification study on flora and fauna of surrounding the ash filled South Balanda Mine Void	NTPC Ltd., Talcher Thermal Power Station, Angul , Odisha	20-Jan-2018 to 30-Sep-2022
4	GAP 3447	Molecular physiology of carbon and nitrogen metabolism under water stress in guar leaf (<i>Cyamopsis tetragonaloba</i>)	DST, New Delhi	13-Jul-2018 to 12-Jul-2022
5	GAP 3452	Evolutionary significance of a miRNA and its role in shaping leaf morphology and bio-mass enhancement of <i>Arabidopsis thaliana</i> of West Himalaya	DBT, New Delhi	04-Sep-2018 to 03-Sep-2022
6	GAP 3458	CRISPR-mediated genome editing of plant for functional validation and biogenesis; Sub-project 1: CRISPR-mediated genome editing for functional characterization of plant miRNAs; Sub project 2: Editing of lower stem sequence of a pre-miRNA may suppress its biogenesis from pri-miRNA: A case study of pri-miRNA processing for crop improvement	DBT, New Delhi	28-Nov-2018 to 27-Nov-2022
7	GAP 3459	Unravelling the missing links of light signalling for the divergent plant responses to vegetation proximity	DBT, New Delhi	01-Jan-2019 to 31-Dec-2023
8	GAP 3464	Characterizing Patterns and Processes of Alpine Ecosystem in Indian Himalaya with Special Emphasis to Cryptogams	Space Application Centre, ISRO, Ahmedabad	22-Feb-2019 to 21-Feb-2023
9	GAP 3465	Taxonomy and Phylogeny of the genus <i>Juniperus</i> L. (Cupressaceae) in India	SERB, New Delhi	01-Jun-2019 to 28-Feb-2023
10	GAP 3466	Biogeography, phylogenetic studies and development of e-monograph for the Arthoniales (lichenized fungi) in India	DST, New Delhi	01-May-2019 to 22-Jun-2022

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11	GAP 3468	Farm based S&T interventions for socio-economic development in the aspirational district of Nabarangpur, Odisha	Agriculture and Farmers' Empowerment Department, Govt. of Odisha through CSIR-IMMT, Bhubaneswar	12-Sep-2019 to 31-Mar-2023
12	GAP 3470	Development of Rice-Grain Arsenic Removal Technique/Method for Rural Population of Arsenic Affected Areas	DST, New Delhi	27-Nov-2019 to 26-Nov-2022
13	GAP 3471	Monographic and phylogenetic studies in the genus <i>Saxifraga</i> L. (<i>Saxifragaceae</i>) from India	SERB, New Delhi	01-Nov-2019 to 31-Oct-2022
14	GAP 3472	Reducing Pathogenic damages in betelvine (<i>Piper betle</i>) using ACC deaminase containing microbes	DST, New Delhi	21-Nov-2019 to 20-May-2023
15	GAP 3473	Deciphering the role of nitric oxide in root development and zinc availability in rice plants	SERB, New Delhi	01-Nov-2019 to 28-Feb-2023
16	GAP 3474	Understanding transcriptional regulation of withanolide biosynthesis in <i>Withania somnifera</i>	SERB, New Delhi	08-Jan-2020 to 07-Jul-2022
17	GAP 3475	Study of spatio-temporal distribution in the F - and As levels in environmental matrices of F - contaminated districts of UP (Unnao, Kanpur and Raebareilly) and its relationship with the soil chemistry	SERB, New Delhi	05-Feb-2020 to 04-Aug-2023
18	GAP 3476	Ex-situ conservation studies of the <i>Cycas</i> species in India at CSIR-NBRI Botanic Garden	MoEF&CC, New Delhi	18-Jan-2020 to 17-Jan-2025
19	GAP 3477	Taxonomy and Phylogeny of the genus <i>Uria</i> Desv., (<i>Leguminosae</i>) in India	SERB, New Delhi	10-Feb-2020 to 09-Feb-2023
20	GAP 3478	Leveraging genetic resources for accelerated genetic improvement of Linseed using comprehensive genomics and phenotyping approaches: Sub Project 2, Component-1: "Development of reference genome and core set using molecular markers"	DBT, New Delhi	29-Feb-2020 to 28-Feb-2025
21	GAP 3479	Assessment of conservation status and phylogeny of Endemic hornworts (<i>Anthocerotophyta</i>) in India	SERB, New Delhi	18-Feb-2020 to 17-Feb-2023
22	GAP 3480	Construction of SNP based high-density consensus linkage map and QTL identification in linseed	SERB, New Delhi	11-Jun-2020 to 10-Jun-2023

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23	GAP 3481	Development of nutraceutical supplement for diarrheal conditions	DST, New Delhi	08-Jun-2020 to 07-Jun-2023
24	GAP 3482	Conservation, Improvement Management and Promotion of Sandalwood (<i>Santalum album</i> Linn.) cultivation in India	Indian Council of Forestry Research & Education, Dehradun through MoEF&CC, New Delhi	13-Dec-2019 to 12-Dec-2024
25	GAP 3483	Conservation and productivity improvement of Red Sanders (<i>Prerocarpus santalinus</i> L.f.)	Indian Council of Forestry Research & Education, Dehradun through MoEF&CC, New Delhi	13-Dec-2019 to 12-Dec-2024
26	GAP 3486	National coordination of scheme of Young Scientists and Technologies (SYST)	DST, New Delhi	12-Nov-2020 to 11-Nov-2023
27	GAP 3487	Agriwaste management by developing hygroscopic rice straw pellets for alleviating drought stress and improving soil fertility through microbial intervention	DST, New Delhi	01-May-2020 to 30-Apr-2023
28	GAP 3488	Threat assessment of traded forest flora of Madhya Pradesh	Madhya Pradesh State Biodiversity Board	09-Dec-2020 to 08-Dec-2023
29	GAP 3489	Cumulative impact assessment for cascading interventions in Himalayan rivers (Ci2HR)	GB Pant National Institute of Himalayan Environment (NIHE), Almora, Uttarakhand	22-Dec-2020 to 13-Jul-2023
30	GAP 3491	Deciphering limb regeneration potential in ladybird beetles	SERB, New Delhi	30-Dec-2020 to 29-Dec-2023
31	GAP 3493	Rapid composting of rice straw in field for crop residue management in rice wheat cropping system through microbial intervention"	DBT, New Delhi	18-Jan-2021 to 17-Jan-2024
32	GAP 3494	Deciphering the role of <i>Paenibacillus lentimorbis</i> NRRL B-30488 in controlling the early blight in Tomato caused by <i>Alternaria solani</i> by using metabolomics approach.	SERB, New Delhi	01-Jan-2021 to 31-Dec-2023
33	GAP 3495	Application of selenium for reducing arsenic level in rice (<i>Oryza sativa</i> L.) during arsenic stress	The National Academy of Sciences (NASI), Prayagraj	04-Jan-2021 to 03-Jan-2024
34	GAP 3496	Development of Cost effective and iron fortified herbal supplement for dysmenorrheal (menstrual disorder)	DST, New Delhi	08-Apr-2021 to 07-Apr-2024
35	GAP 3497	Evaluation of nutritional and anti-nutritional properties and neurotoxicity of <i>Cycas sphaerica</i>	DST, New Delhi	01-Apr-2021 to 31-Jul-2023

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		(Cycadaceae) - a food plant used by the tribals of Eastern Ghats of India		
36	GAP 3498	Seasonal impact on the phytoconstituents of <i>Moringa oleifera</i> Lam. and their shelf life study	UPCST, Lucknow	18-Aug-2021 to 17-Aug-2024
37	GAP 3499	Elevated CO2 induced small RNA directed DNA methylation regulation and miRNA expression in low and high altitude populations of <i>Arabidopsis thaliana</i> for adaptive advantages	SERB, New Delhi	18-Oct-2021 to 17-Oct-2024
38	GAP 3500	Development of rapid and cost effective 'on-farm' diagnostics for plant viruses	DST, New Delhi	01-Sep-2021 to 07-Oct-2023
39	GAP 3501	Did most <i>Cycas</i> species originate from India? Genetic evidence through phylogenetic and phylogeographic studies	SERB, New Delhi	22-Dec-2021 to 21-Dec-2023
40	GAP 3502	Systematic study in the family Poaceae from Western Himalaya	SERB, New Delhi	29-Dec-2021 to 28-Dec-2024
41	GAP 3503	Unravelling the induced defense response in the neighbouring crops as a consequences of over-expressed methanol	SERB, New Delhi	27-Dec-2021 to 26-Dec-2024
42	GAP 3504	Development of novel microbial formulation to bioremediate Cr(VI) toxicity in hexavalent chromium contaminated sites	SERB, New Delhi	07-Feb-2022 to 06-Feb-2024
43	GAP 3505	Taxonomy and ecology of lichenicolous fungi in Eastern Himalaya	SERB, New Delhi	21-Feb-2022 to 20-Feb-2025
44	GAP 3506	Systematic studies of the tribe Boehmerieae Gaud. (Utricaceae) in India	SERB, New Delhi	21-Feb-2022 to 20-Feb-2025
45	GAP 3507	Assessment of Pteridophytic diversity in Kotgarh Wildlife Sanctuary, Odisha	SERB, New Delhi	05-Mar-2022 to 04-Mar-2025
46	GAP 3508	Taxonomic and Phylogenetic Studies on Impatiens sect. Annuae (Balsaminaceae)	SERB, New Delhi	18-Feb-2022 to 17-Feb-2025
47	GAP 3509	Dehydrated flowers and foliages for women empowerment	DSIR, New Delhi	17-Mar-2022 to 16-Mar-2025
48	GAP 3510	Exploration of native legumes and characterization of associated nitrogen fixing microsymbionts in North-Eastern India for development of biofertilizers	DBT, New Delhi	09-Mar-2022 to 08-Mar-2025

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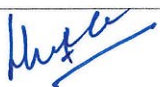

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49	GAP 3511	An integrative revision of the genus <i>Swertia</i> L (Gentianaceae) in India and threat assessment of its species	SERB, New Delhi	02-Mar-2022 to 01-Mar-2024
50	GAP 3512	Development of high laccase producing mutants of <i>Trichoderma asperellum</i> strain NBRI-K14 using gamma ray mutagenesis	BRNS, DAE, Mumbai	19-May-2022 to 18-May-2025
51	GAP 3513	Rapid and on-site diagnostic for viruses and viroid infecting apple	SERB, New Delhi	29-Apr-2022 to 23-Jul-2023
52	GAP 3514	Establishment of Amrut Biodiversity Park at New Delhi	DDA, New Delhi	18-Aug-2022 to 17-Aug-2029
53	GAP 3515	Characterization of cotton fiber-specific microRNA-encoded peptides (miPEPs)	DBT, New Delhi	26-Sep-2022 to 25-Sep-2025
54	GAP 3516	Exploring roles of tissue specific circadian clock in regulating plant organogenesis and adaptive growth	DBT, New Delhi	01-Sep-2022 to 31-Aug-2027
55	GAP 3518	Mapping nitrogen pollution in Gangetic Plains utilizing lichens as bioindicators	UPCST, Lucknow	20-Dec-2022 to 19-Dec-2025
56	GAP 3519	Biotechnological Interventions for Management of Protected Areas	DBT, New Delhi	17-Feb-2023 to 16-Feb-2026
57	GAP 3520	Identification of adulterants/substitutes for Ayurveda plant raw material in trade using pharmacognostic and phytochemical parameters	CCRAS, New Delhi	18-Mar-2023 to 17-Mar-2026
58	HCP 0007	CSIR Aroma Mission-IIInd Phase: Catalyzing rural empowerment through cultivation processing, value addition and marketing of aromatic plants	CSIR	30-Dec-2020 to 31-Mar-2023
59	HCP 0023	Next Generation Insect Resistance in Cotton: Development of next-generation transgenic cotton for broad spectrum resistance to field pests for yield protection (2nd Phase)	CSIR	10-Dec-2020 to 31-Mar-2025
60	HCP 0037	CSIR Floriculture Mission	CSIR	18-Jan-2021 to 31-Mar-2023
61	HCP 0047	Phenome India- CSIR Health Cohort Knowledgebase	CSIR-IMD, New Delhi	03-Aug-2022 to 31-Mar-2027
62	HCP 0101	Pilot Implementation of "CSIR-Virtual Laboratory (for school student)	CSIR	02-Dec-2020 to 31-Mar-2023

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63	MLP 0006	Small RNAs and associated factors for enhanced post-harvest life (sRNA-Life) - Phase II	CSIR	28-Jan-2021 to 31-Mar-2023
64	MLP 0007	Genome editing for crop improvement (GE Crop)	CSIR	28-Jan-2021 to 31-Mar-2023
65	MLP 0027	Characterization and value addition of plant-based resins, gums and waxes (Phase II)	CSIR	28-Jan-2021 to 31-Mar-2023
66	MLP 0029	Pathway elucidation and identification of genes involved in guggulsterones biosynthesis in commiphora spp. (Phase II)	CSIR	28-Jan-2021 to 31-Mar-2023
67	MLP 0030	Sub-genome dominance in endoreduplication and its implication in heterotic benefits to F1-hybrids for biomass and their adaptation (Phase II)	CSIR	28-Jan-2021 to 31-Mar-2023
68	MLP 0033	A novel herbal product for vulvovaginal candidiasis	CSIR	15-Jul-2020 to 30-Sep-2022
69	MLP 0035	Unravelling molecular details of drought tolerance in cotton	CSIR	28-Jan-2021 to 31-Mar-2023
70	MLP 0036	Epigenetic modifications in Rhizoctonia solani during interaction with Bacillus amyloliquefaciens and its implication for biotic stress management in rice	CSIR	28-Jan-2021 to 31-Mar-2023
71	MLP 0037	Regulation of pectin methylesterase inhibitor for enhancing plant-generated methanol for broad spectrum insect resistance	CSIR	28-Jan-2021 to 31-Mar-2023
72	MLP 0038	Deciphering the role of sRNA during synergistic interaction between two Trichoderma spp.	CSIR	28-Jan-2021 to 31-Mar-2023
73	MLP 0039	Fe and Zn bio-fortification in rich through integrated microbial and soil nitrogen management in crop field	CSIR	28-Jan-2021 to 31-Mar-2023
74	MLP 0040	Arsenic (As) risk assessment in vegetable crops in arsenic affected areas and mitigation through microbial consortia containing AsMT activity	CSIR	28-Jan-2021 to 31-Mar-2023
75	MLP 0041	Conservation of threatened plant species of India	CSIR	28-Jan-2021 to 31-Mar-2023
76	MLP 0042	Plant resource mapping of Chambal Ravines	CSIR	28-Jan-2021 to 31-Mar-2023

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77	MLP 0043	Leveraging genetic resources for accelerated genetic improvement of grain amaranth using genomics and phenotyping approaches	CSIR	28-Jan-2021 to 31-Mar-2023
78	MLP 0044	To identify the potential Aloe species for cultivation in salt affected soils	CSIR	28-Jan-2021 to 31-Mar-2023
79	MLP 0045	Conservation, Agronomics, Metabolomics and genomics of Indian Lotus (KAMAL)	CSIR	28-Jan-2021 to 31-Mar-2023
80	MLP 0046	Targeted metabolite genetics in two underutilized narcotic crops (Cannabis and Opium poppy) for Cannabinoids and Oripavine improvement	CSIR	28-Jan-2021 to 31-Mar-2023
81	MLP 0047	Characterization of Boll-Weight (BW) QTL Hotspots for cotton yield improvement	CSIR	28-Jan-2021 to 31-Mar-2023
82	MLP 0048	Deciphering the mechanism(s) of host endophytes coevolution enhanced secondary metabolite production and crop productivity	CSIR	28-Jan-2021 to 31-Mar-2023
83	MLP 0049	Bio-stimulants for stress amelioration, enhanced plant productivity and soil health	CSIR	28-Jan-2021 to 31-Mar-2023
84	MLP 0055	Unraveling the post-translational control of ripening by the MAP kinase pathways in mango	CSIR	25-May-2022 to 31-Mar-2024
85	MLP 0056	Preparation of certified reference material of important phytomolecules	CSIR	18-Aug-2022 to 31-Jul-2024
86	MLP 0057	Optimization of Beta 1.3 glucan production using heterotrophic microalga	CSIR	18-Aug-2022 to 31-Jul-2024
87	MLP 0168	Understanding food energy water nexus in dynamics of critical zone WRJ-1 critical zone observatory	CSIR	17-Jan-2022 to 31-Mar-2023
88	MLP 0208	Synthesis of zeolites from flyash for agriculture applications	CSIR	28-Jan-2021 to 31-Mar-2023
89	NWP 0100	CSIR Integrated Skill Initiative Phase II	CSIR	16-Oct-2020 to 31-Mar-2025
90	OLP 0099	Plant conservation, botanical garden, plant houses and development of new varieties of ornamental and floricultural crops	CSIR-NBRI	01-Apr-2017 to 31-Mar-2023

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91	OLP 0100	Socio-economic development through enhancing production of agricultural systems, skill development and outreach programmes	CSIR-NBRI	01-Apr-2017 to 31-Mar-2023
92	OLP 0101	Bio-resource inventory, systematics and conservation of diverse plant groups	CSIR-NBRI	01-Apr-2017 to 31-Mar-2023
93	OLP 0106	Herbal product development for industrial application	CSIR-NBRI	01-Apr-2017 to 31-Mar-2023
94	OLP 0108	Response of plant species to climate change and screening pollution ameliorating plants	CSIR-NBRI	07-Aug-2020 to 31-Mar-2023
95	OLP 0109	Endophytes and biostimulants for enhancing crop production	CSIR-NBRI	07-Aug-2020 to 31-Mar-2023
96	OLP 0110	Mapping of arsenic pollution & mitigation of arsenic contamination to crops using bioremediation.	CSIR-NBRI	07-Aug-2020 to 31-Mar-2023
97	OLP 0111	Microbial enzymes for environment and agriculture	CSIR-NBRI	07-Aug-2020 to 31-Mar-2023
98	OLP 0112	Enhancing cotton yield through GM and non-GM approaches	CSIR-NBRI	07-Aug-2020 to 31-Mar-2023
99	OLP 0113	Genetic improvement of Hemp (Cannabis sativa L.) for industrial and medicinal purposes through the intervention of conventional and molecular breeding	CSIR-NBRI	07-Aug-2020 to 31-Mar-2023
100	SSP 2904	Breeding and genetic improvement of Hemp (Cannabis sativa L.) for industrial and medicinal purposes	Sir Dorabji Tata Trust & Atulya Krishi Foundation (AKF) on behalf of BOHECO, Mumbai	07-Sep-2018 to 06-Sep-2023
101	CLP 2905	Development and Promotion of non-POPs alternatives to DDT, CSIR-NBRI Component: Propagation of new dwarf cultivars of neem with early maturity and higher limonoids yield	UNIDO, Vienna, Austria	16-Nov-2018 to 31-Dec-2024
102	CNP 3048	Preparation of Biodiversity Management Plan for Nongtrai Limestone Mine of Lafarge Umiam Mining Pvt. Ltd. in Meghalaya	Holtec Consulting Private Limited (HPCL), Gurgaon, Haryana	14-Jul-2022 to 13-Oct-2022

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