

## List of the schemes/projects/programmes underway as on January 2020

S.N.		Project title	Funding Agency	Start Date	Completion Date
<b>CSIR Funded Projects</b>					
1	HCP 0007	CSIR Aroma Mission: Catalyzing rural empowerment through cultivation processing, value addition and marketing of aromatic plants	CSIR	17-Jul-17	31-Mar-20
2	HCP 0010	CSIR Phytopharmaceutical Mission: Catalyzing Phytomaceutical drug discovery as per global standards for unmet medical needs from indigenous medicinal plants under captive cultivation	CSIR	08-Dec-17	31-Mar-20
3	HCP 0023	Next Generation Insect Resistance in Cotton: Development of next-generation transgenic cotton for broad spectrum resistance to field pests for yield protection	CSIR	31-Jan-19	31-Mar-20
4	MLP 0025	Bio-prospecting plant diversity for food grade colors	CSIR	27-Aug-18	31-Mar-20
5	MLP 0026	Genome editing for enhance yield and quality traits (GE-Plant)	CSIR	16-Nov-18	31-Mar-20
6	MLP 0027	Characterization and value addition of plant-based resins, gums and waxes	CSIR	16-Nov-18	31-Mar-20
7	MLP 0028	Small RNAs and associated factors for enhanced post-harvest life (sRNA-Life)	CSIR	16-Nov-18	31-Mar-20
8	MLP 0029	Pathway elucidation and identification of genes involved in guggulsterones biosynthesis in <i>Commiphora sps</i>	CSIR	16-Nov-18	31-Mar-20
9	MLP 0030	Sub-genome dominance in endoreduplication and its implication in heterotic benefits to F1-hybrids for biomass and their adaptation	CSIR	16-Nov-18	31-Mar-20
10	MLP 0031	Understanding the epigenetic of fitness advantage of high altitude Arabidopsis thaliana population under new environments	CSIR	16-Nov-18	31-Mar-20
11	NWP 0100	CSIR Integrated Skill Initiative program : Vision, Mission & Roadmap of CSIR-NBRI Skill Development Programmes	CSIR	05-Dec-17	31-Mar-20
12	NWP 0101	CSIR-KVS Scientist Student Connect Programme -JIGYASA	CSIR	25-Feb-19	31-Mar-20
13	OLP 0099	Plant conservation, botanical garden, plant houses and development of new varieties of ornamental and floricultural crops	CSIR-NBRI	01-Apr-17	31-Mar-20
14	OLP 0100	Socio-economic development through enhancing production of agricultural systems, skill development and outreach programmes	CSIR-NBRI	01-Apr-17	31-Mar-20
15	OLP 0101	Bioresource Inventory of Suhelwa Wildlife Sanctuary, (SWLS) Uttar Pradesh	CSIR-NBRI	01-Apr-17	31-Mar-20
16	OLP 0102	Monitoring and assessment of pollution & its mitigation through bioremediation	CSIR-NBRI	01-Apr-17	31-Mar-20
17	OLP 0103	Forest carbon stock assessment and plants for mitigating urban air pollution	CSIR-NBRI	01-Apr-17	31-Mar-20
18	OLP 0104	Plant improvement through transgenic and modern breeding approaches	CSIR-NBRI	01-Apr-17	31-Mar-20

19	OLP 0105	Microbial intervention for amelioration of Abiotic and biotic stresses in plants	CSIR-NBRI	01-Apr-17	31-Mar-20
20	OLP 0106	Herbal product development for industrial application	CSIR-NBRI	01-Apr-17	31-Mar-20
<b>Business Development Projects</b>					
21	GAP 2239	Establishment of a DUS Test Centre at CSIR-NBRI, Lucknow for Bougainvillea, Canna and Gladiolus crops.	PPV&FRA, Ministry of Agriculture	01-Feb-12	31-Mar-20
22	GAP 2542	Establishment of ENVIS center on Indicator of Plant Pollution in NBRI	MEn&F, New Delhi	01-Jan-03	31-Mar-20
23	GAP 3351	Tomato Ripening Network CSIR-NBRI Component: Targeted manipulation of SIERF6 and SIERF8 in tomato: their role in regulating fruit ripening and productivity	DBT, New Delhi	14-Jan-15	13-Jan-20
24	GAP 3373	Search for elite chemotype(s) of <i>Centella asiatica</i> and their relationship with Ecogeography	NMPB, Ministry of AYUSH, New Delhi	17-May-16	16-May-20
25	GAP 3387	Studies on role of endophytes in variation of acaricidal properties of two acaricide producing plant species NBA22/F1 and NBA18/D1 from North-Eastern States	DBT, New Delhi	11-Feb-17	10-Feb-20
26	GAP 3389	Functional Characterization of rice class I Metallothionein (MT) gene family	SERB, New Delhi	06-Feb-17	05-Feb-20
27	GAP 3392	Role of NPR1 in global nucleosomal remodeling in Arabidopsis thaliana	SERB, New Delhi	15-Feb-17	14-Feb-20
28	GAP 3393	Metabolomic analysis for isoquinoline alkaloids from therapeutically important genus <i>Berberis</i> L.	SERB, New Delhi	06-Feb-17	05-May-20
29	GAP 3394	Development of consensus genetic linkage map for <i>Gossypium</i> L. spp. with SNP markers and QTL analysis for fiber trait	DBT, New Delhi	21-Feb-17	20-Feb-20
30	GAP 3395	Exploring a novel role of SkMSM1 and SkR2R3-Myb315-like transcriptional regulators in the development of prickles of <i>Solanum khasianum</i>	DBT, New Delhi	30-Jan-17	29-Jan-20
31	GAP 3396	Biofortification of essential metal nutrients (Fe, Zn) in <i>Oryza sativa</i> L. through microbes	SERB, New Delhi	03-Mar-17	02-Mar-20
32	GAP 3398	Meta-genomic and transcriptomic studies on Termitomyces growing fungal combs of termites found in Assam for bioprospection	DBT, New Delhi	17-Jan-17	16-Jan-20
33	GAP 3399	Monographic studies on the genus Geranium with special emphasis on the phytosociological and conservation status	SERB, New Delhi	15-Mar-17	14-Mar-20
34	GAP 3400	Programme support secondary plant product pathway engineering for enhanced nutritional quality and yield	DBT, New Delhi	24-Mar-17	23-Mar-22
35	GAP 3401	Combining Proteomics and Transcriptome sequencing to identify putative RNAi targets for mealybug ( <i>Phenacoccus solenopsis</i> ) and their functional validation	SERB, New Delhi	20-Mar-17	19-Mar-21

36	GAP 3402	Development Of Plant Based Synergistic Natural Supplement and its Pharmacological Validation to Alleviate Gouty Arthritic Conditions	DST, New Delhi	22-Mar-17	21-Mar-20
37	GAP 3403	Molecular Systematics of the Genus <i>Betula</i> L. ( <i>Betulaceae</i> ) in India	SERB, New Delhi	17-Mar-17	16-Mar-21
38	GAP 3404	Revalidation of Good Agricultural Practices (GAPs) to develop agro-technology for the cultivation of medicinal plants	NMPB, Ministry of AYUSH, New Delhi	11-May-17	10-May-20
39	GAP 3407	In vitro studies on reproductive behaviour, regeneration and conservation of Threatened and Economically important Pteridophytes of Niyamgiri Hill, Odisha	SERB, New Delhi	11-May-17	10-May-21
40	GAP 3408	Characterization of gene(s) responsible for tyloses formation in chickpea during <i>Fusarium oxysporum</i> infection	SERB, New Delhi	08-Jun-17	07-Jun-20
41	GAP 3409	Technology development, management, and long-term monitoring of shifting cultivation and coal mining in north-eastern India	GB Pant Institute of Himalayan Environment and Development, Almora, Uttarakhand	15-Jul-17	31-Mar-20
42	GAP 3416	Revisionary studies on lichen genera <i>Buellia sensu lato</i> and <i>Rinodina (Caliciales)</i> from India	SERB, New Delhi	12-Sep-17	11-Sep-20
43	GAP 3418	Epigenetical effect of <i>Arabidopsis thaliana</i> of West Himalayan populations in response to elevated CO <sub>2</sub> for adaptive advantage	SERB, New Delhi	28-Sep-17	27-Sep-20
44	GAP 3420	Monitoring and Assessment of Arsenic Pollution in Arsenic Prone Districts of Uttar Pradesh	Directorate of Agriculture, Govt. of UP	17-Nov-17	16-Nov-20
45	GAP 3422	Soil carbon sequestration in tropical deciduous forests of India and its functional relationship with community structural variables.	DST, New Delhi	23-Oct-17	22-Oct-20
46	GAP 3424	Identification of elite chemotype of <i>Plumbago zeylanica</i> Linn. Collected from different phyto-geographical zones of India and evaluation of biological potential of elite germplasm	DST, New Delhi	05-Dec-17	04-Dec-20
47	GAP 3425	Unraveling the role of plant growth promoting rhizobacteria-responsive microRNA(s) in <i>Arabidopsis</i>	INSA, New Delhi	22-Dec-17	21-Dec-20
48	GAP 3427	Identification of targets of the cotton GhNAC2 involved in root growth and abiotic stress tolerance	SERB, New Delhi	17-Mar-18	16-Mar-21
49	GAP 3428	Adaptation strategies of rice varieties of Indo-Gangetic Plains to climate change	DST, New Delhi	16-Mar-18	15-Mar-21
50	GAP 3429	Remediation and Reclamation of <i>Hexachlorocyclohexane</i> (HCH) Dumpsite by using Microbial Bioremediation Technology	DBT, New Delhi	28-Mar-18	27-Mar-20
51	GAP 3430	A combining approach of GBS and ECOTILLING based GWAS study for expediting trait-associated genes/QTLs/molecular tags for thebaine content in Opium Poppy	SERB, New Delhi	17-Mar-18	16-Mar-21

52	GAP 3431	Bioresource and sustainable livelihoods in North East India: Component 2 & Sub-project 3 "Integrative taxonomic analysis for assessment of diversity and phylogenetic relationships among Quercus and Citrus from Northeast Region"	DBT, New Delhi	29-Mar-18	28-Mar-21
53	GAP 3432	Evaluation of seasonal effect on anti-hypertensive in dole alkaloid of Rauvolfia sp. From Northern India and development & validation of physicochemical and molecular markers	UPCST, Lucknow	13-Mar-18	12-Mar-21
54	GAP 3433	Invasive Alien Plants in Himalayas: Status, Ecological Impact and Management Sub-Project : "Distribution and population growth of invasive alien plants in Sikkim and Darjeeling Himalaya in different ecosystems along the altitudinal gradient and their impact on native flora and plant community attributes	GB Pant Institute of Himalayan Environment and Development, Almora, Uttarakhand	01-Jan-18	31-Dec-20
55	GAP 3435	Genome characterization of banana/plantain genetic resources of North-eastern region and their utilization in multicentre planning for commercial improvement	DBT, New Delhi	22-Mar-18	21-Mar-21
56	GAP 3437	Bioresource and sustainable livelihoods in North East India: Component 1 & Sub-project 11 "Quantitative assessment and mapping of the diversity of non-flowering plants (Lichen, bryophytes, fungi, pteridophytes) of Northeast India"	DBT, New Delhi	29-Mar-18	28-Mar-21
57	GAP 3438	Bioresource and sustainable livelihoods in North East India: Component 3 & Sub-project 2 "Assess the economic value of bio-resources and their role in meeting the societal needs and sustainable development goals "	DBT, New Delhi	29-Mar-18	28-Mar-21
58	GAP 3439	Bioresource and sustainable livelihoods in North East India: Component 4 & Sub-project 1 "Product development and partner support for demonstration farming and value addition "	DBT, New Delhi	29-Mar-18	28-Mar-21
59	GAP 3440	Investigation of rice rhizospheric chemistry of arsenic in paddy fields of different agro-climatic zones of Uttar Pradesh	UPCST, Lucknow	15-May-18	14-May-20
60	GAP 3441	Biotechnological Interventions through RNAi approach for Management of Banana Bunchy Top Virus (BBTV) in Northeast Region of India	DBT, New Delhi	22-Mar-18	21-Mar-21
61	GAP 3443	A taxonomic revision on pyrenocarpous lichens from India	SERB, New Delhi	04-Apr-18	03-Apr-20
62	GAP 3444	Bioaccumulation and bio-magnification study on flora and fauna of surrounding the ash filled South Balanda Mine Void	Talcher Thermal Power Station, NTPC, Odisha	20-Jan-18	19-Jan-22
63	GAP 3445	Functional characterization of light-associated factor(s) regulating flavonoid biosynthesis in tomato	DBT, New Delhi	01-Apr-18	31-Mar-21

64	GAP 3447	Molecular physiology of carbon and nitrogen metabolism under water stress in guar leaf ( <i>Cyamopsis tetragonoloba</i> )	DST, New Delhi	13-Jul-18	12-Jul-21
65	GAP 3448	Exploring the role of Calmodulin-binding transcription activators (CAMTA) in Cotton Fiber Development	SERB, New Delhi	06-Apr-18	05-Apr-20
66	GAP 3451	Morphology and Molecular assisted identification of fresh water algae of Jim Corbett National Park (JCNP), Uttarakhand	SERB, New Delhi	20-Sep-18	19-Sep-21
67	GAP 3452	Evolutionary significance of a miRNA and its role in shaping leaf morphology and biomass enhancement of <i>Arabidopsis thaliana</i> of West Himalaya	DBT, New Delhi	04-Sep-18	03-Sep-21
68	GAP 3453	Understanding the molecular mechanism of defense in pigeon pea ( <i>Cajanus cajan</i> ) due to infestation by <i>Helicoverpa armigera</i>	DBT, New Delhi	12-Sep-18	11-Sep-21
69	GAP 3454	Poverty alleviation through popularization of locally available medicinal-dietary plants for the prevention of malnutrition among the SC/ST children and women	DBT, New Delhi	27-Sep-18	26-Sep-21
70	GAP 3455	Role of an EAR motif repressor, SIERF36, in tomato development and growth	SERB, New Delhi	20-Nov-18	19-Nov-21
71	GAP 3456	Reproductive Biology of <i>Cyathea spinulosa</i> (a Threatened Tree Fern) and Studies on its Multiplication and Restoration Potentiality	SERB, New Delhi	12-Nov-18	11-Nov-21
72	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	DBT, New Delhi	28-Nov-18	27-Nov-21
73	GAP 3459	Unravelling the missing links of light signalling for the divergent plant responses to vegetation proximity	DBT, New Delhi	01-Jan-19	31-Dec-23
74	GAP 3460	Capacity development of tribal populations in Chitrakoot region for utilization of local bioresources for improved livelihood	NASI, Prayagraj	05-Mar-19	04-Mar-21
75	GAP 3461	A comparative study on the effect of F- on C3 and C4 plants and the modulation of essential nutrients	SERB, New Delhi	19-Mar-19	18-Mar-21
76	GAP 3462	Comprehensive Metabolic profiling and pharmacological studies of piper species: a natural bio-enhancer in pharmaceuticals	DBT, New Delhi	05-Feb-19	04-Feb-22
77	GAP 3463	Ground and remote sensing-based measurements of leaf area index and estimating net primary productivity in tropical deciduous and semi-evergreen forests of India	SERB, New Delhi	30-Mar-19	29-Mar-22
78	GAP 3464	Characterizing Patterns and Processes of Alpine Ecosystem in Indian Himalaya with Special Emphasis to Cryptogams	Space Application Centre, ISRO, Ahmedabad	22-Feb-19	21-Feb-22
79	GAP 3465	Taxonomy and Phylogeny of the genus <i>Juniperus</i> L. ( <i>Cupressaceae</i> ) in India	SERB, New Delhi	01-Jun-19	31-May-22

80	GAP 3466	Biogeography, phylogenetic studies and development of e-monograph for the Arthoniales ( <i>lichenized fungi</i> ) in India	DST, New Delhi	01-May-19	30-Apr-24
81	GAP 3467	Analysis of arsenic and other multi-elements accumulation in grain of different rice cultivars	Rice Research Station, Chinsurah, Hooghly, West Bengal	19-Aug-19	18-Feb-20
82	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, Bhubaneshwar	12-Sep-19	31-Mar-20
83	GAP 3469	Baselines studies for Ambient Air Quality, Water, Soil, Terrestrial and Aquatic Ecology and Biodiversity in and around Quarry No 4&7 of the abandoned Jaganath Mine vide, Talcher, District Angul, Odisha	NTPC Ltd., Talcher Thermal Power Station, Agul, Odisha	31-Oct-19	28-Feb-20
84	GAP 3470	Development of Rice-Grain Arsenic Removal Technique/Method for Rural Population of Arsenic Affected Areas	DST, New Delhi	27-Nov-19	26-Nov-22
85	GAP 3471	Monographic and phylogenetic studies in the genus <i>Saxifraga</i> L. ( <i>Saxifragaceae</i> ) from India	SERB, New Delhi	01-Nov-19	31-Oct-22
86	SSP 2904	Breeding and genetic improvement of Hemp ( <i>Cannabis sativa</i> L.) for industrial and medicinal purposes	Sir Dorabji Tata Trust & Atulya Krishi Foundation (AKF) on behalf of BOHECO, Mumbai	07-Sep-18	06-Sep-23
87	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-18	15-Jul-20
88	CNP 3045	Establishing a world class multipurpose Botanical Garden in Ballarpur, Maharashtra	Govt. of Maharashtra	09-Apr-18	30-Jun-20