

**Externally Funded Ongoing Project List**

| S.N. | Funded by  | Project No. | Title  | PI Name                   | Sanction Date | End Date                                      | Total Project Cost (Rs. In Lakhs) |
|------|--|-------------|--|---------------------------|---------------|---|-----------------------------------|
| 1    | PPV&FRA  | GAP-221     | DUS test centre for medicinal & Aromatic Plants under Central sector scheme for protection of plants varieties & Farmers Rights Authority.                                   | Dr. Anil Kumar Gupta      | 30.06.2014    | 31.03.2026 Ext. 31.03.2027                    | 25.000                            |
| 2    | Protection of Plant Varieties & Farmers' Rights Authority, New Delhi | GAP-458     | Development of Guidelines for Conduct of Test for Distinctiveness, Uniformity and Stability on Ashwagandha ( <i>Withania somnifera</i> (L.) Dunal).                          | Dr. Tripta Jhang          | 23.10.2020    | 31.03.2026 Extended 30.06.2026                | 27.000                            |
| 3    | DST-SERB   | GAP-487     | The Award of J C Bose Fellowship   | Dr. Prabodh Kumar Trivedi | 28.03.2022    | 13.02.2026 and further extension upto 5 years | 74.420                            |
| 4    | DBT-Regional Centre for Biotechnology, Government of India           | GAP-491     | Mass spectrometry-based Metabolomics, lipidomics and integrated flux-based approaches for investigating Metabolic basis of circadian dysfunction in Type-2 Diabetes.         | Dr. Ratnasekhar CH        | 14.10.2021    | 13.10.2026                                    | 42.500                            |
| 5    | DST-WOS A  | GAP-504     | Development of phytomining technology of economically important metals through aromatic vegetation and application of encapsulated microbial inoculants.                     | Dr. Disha Mishra          | 27.03.2023    | 26.03.2026 Ext. 26.09.2026                    | 31.389                            |
| 6    | DST-INSPIRE Faculty Award  | GAP-509     | Enhancing the medicinal properties of <i>Ocimum</i> by engineering pri-microRNA-encoded peptides   | Dr. Ashish Sharma         | 09.01.2023    | 08.01.2028                                    | 110.000                           |
| 7    | DST-WOS A  | GAP-510     | Rational design and development of non-steroidal small molecules from flavonoids of <i>Glycyrrhiza glabra</i> for Breast carcinoma and triple negative Breast cancer (TNBC). | Dr. Asha Budakoti         | 01.05.2023    | 30.04.2026 Ext 30.07.2026                     | 31.374                            |
| 8    | SERB   | GAP-512     | Development of chemical signature for purity and authentication of <i>Rudravati</i> ( <i>Astragalus candolleanus</i> Royle) and its substitute ( <i>Cressa Cretica</i> L.)   | Dr. Karuna Shanker        | 19.07.2023    | 18.07.2026                                    | 41.920                            |
| 9    | DBT  | GAP-515     | Unraveling key enzymes for medicinal triterpenes biosynthesis in <i>Boswellia Serrata</i>  | Dr. Sumit Ghosh           | 12.09.2023    | 11.09.2026                                    | 51.280                            |
| 10   | Science & Engineering Research Board (SERB), New Delhi               | GAP-520     | Discovering novel plant peptides for the treatment of prevalent female reproductive cancer through the suppression of angiogenesis and metastasis.                           | Dr. Suaib Luqman          | 16.10.2023    | 15.10.2026                                    | 50.370                            |
| 11   | Science & Engineering Research Board (SERB), New Delhi               | GAP-521     | Elucidating the uptake and transportation mechanism of toxic metals in different genotypes of <i>A. paniculata</i> .   | Dr. Puja Khare            | 15.11.2023    | 14.11.2026                                    | 30.397                            |
| 12   | DBT  | GAP-522     | National Network Project of CSIR-Central Drug Research Institute, Lucknow.   | Dr. Feroz Khan            | 27.12.2023    | 26.12.2028                                    | 45.910                            |
| 13   | Council of Science & Technology (UPCST)                              | GAP-524     | Radiofrequency cold plasma treatment on seed germination potential, oil yield and quality attributes in <i>Ocimum africanum</i> .  | Dr. Birendra Kumar        | 19.01.2024    | 18.01.2027                                    | 13.860                            |
| 14   | DBT  | GAP-525     | Deciphering the oleoresin and aroma formation in the agarwood tree through transcriptomics, functional genomics and synthetic biology.                                       | Dr. Dinesh A Nagegowda    | 18.01.2024    | 17.01.2027                                    | 40.838                            |

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| 15 | ICMR   | GAP-526 | IND compliance preclinical development of indonone-based anticancer agent against breast cancer.  | Dr. Arvind Singh Negi   | 01.03.2024 | 28.02.2027                           | 103.782 |
| 16 | Haleon UK Trading Limited, United Kingdom  | SSP-527 | Demonstration, deployment and popularization of sustainable mint based agro-technologies in Barabanki District, Uttar Pradesh.  | Dr. Rajesh Kumar Verma  | 29.02.2024 | 28.02.2028                           | 524.197 |
| 17 | SERB   | GAP-528 | Molecular characterization of negative regulators of patchoulol biosynthesis and trichome development for aroma trait improvement in Pogostemon cablin.                   | Dr. Dinesh A. Nagegowda | 12.03.2024 | 11.03.2027                           | 33.696  |
| 18 | SERB   | GAP-529 | Engineering efflux pumps in Azospirillum brasilense to improve sesquiterpenoid production   | Dr. Mukti Nath Mishra   | 13.03.2024 | 12.03.2027                           | 40.188  |
| 19 | SERB   | GAP-530 | Elucidating the mechanism of triterpene transport and accumulation in plant surface.  | Dr. Sumit Ghosh         | 13.03.2024 | 12.03.2027                           | 39.037  |
| 20 | Uttarakhand State Council for Science & Technology(UCOST) Government of Uttarakhand        | GAP-532 | Pilot scale implementation for catalyzing rural empowerment through cultivation, processing. value addition and marketing of aromatic plants in Champawat, Uttarakhand.   | Dr. Manoj Semwal        | 07.03.2024 | 06.03.2027                           | 29.000  |
| 21 | Department of Biotechnology, (DBT) Ministry of Science & Technology, Government of India   | GAP-534 | Engineering yeast phospholipid metabolism for increased production of high value triterpene, Glycyrrhetic acid.   | Dr. DK Venkata Rao      | 14.05.2024 | 13.05.2027                           | 61.028  |
| 22 | Agricultural Technology Management Agency (ATMA)   | SSP-536 | Organization of training programme and exposure visit on cultivation, processing and marketing of aromatic and medicinal crops suitable for Bihar State.                  | Dr. Ram Suresh Sharma   | 19.07.2024 | 31.03.2026<br>Extended<br>31.03.2027 | 9.600   |
| 23 | Science & Engineering Research Board (SERB), DST   | GAP-537 | Investigation the role of Pelargonium graveolens root exudates on chemotactic response and colonization mechanism of Pseudomonas oryzihabitans CB24.                      | Dr. Akanksha Singh      | 29.07.2024 | 28.07.2027                           | 18.000  |
| 24 | DBT  | GAP-538 | Assessment of compatibility and immobilization of organophosphorus-degrading bacteria on biochar for rapid degradation of pesticides and soil remediation.                | Dr. Puja Khare          | 25.09.2024 | 24.09.2027                           | 55.026  |
| 25 | DBT  | GAP-539 | Core construction of genome wide association for unraveling genetic architecture of agro-chemical traits in medicinal plant opium poppy ( <i>Papaver somniferum L.</i> ). | Dr. Gunjan Tiwari       | 01.10.2024 | 30.09.2027                           | 80.566  |
| 26 | Anusandhan National Research Foundation (ANRF), Science & Engineering Research Board(SERB) | GAP-540 | Identification of Opioidergic Alkaloids from Alstonia scholaris in Search of Potent Analgesic Agents.   | Dr. Kapil Dev           | 05.10.2024 | 04.10.2027                           | 33.926  |
| 27 | Council of Science & Technology (CST), UP  | GAP-541 | Evaluation and optimization of seed-harvesting and storage for longevity in Indian Basil ( <i>Ocimum basilicum L.</i> ). (Project ID – 3444)                              | Dr. Rakesh Kumar        | 07.11.2024 | 06.11.2027                           | 15.360  |
| 28 | Anusandhan National Research Foundation (ANRF), Science & Engineering Research Board(SERB) | GAP-542 | Systematics, biogeography and molecular phylogeny of Indian Pogostemon (Lamiaceae).   | Dr. V Sundaresan        | 16.10.2024 | 15.10.2027                           | 32.682  |

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| 29 | Indian Council of Agricultural Research (ICAR), New Delhi, National Agricultural Science Fund (NASF) | GAP-543 | Effects of abiotic and biotic factors on secondary metabolite profiles of <i>Rauvolfia serpentina</i> and <i>Tribulus terrestris</i> : Optimizing cultivation strategies in different agro-climatic regions of India | Dr. V Sundaresan          | 15.10.2024 | 14.10.2027                          | 43.518 |
| 30 | Council of Science & Technology (CST), UP  | GAP-544 | Biological control of <i>Helicoverpa armigera</i> for sustainable production of Menthol mint: Assessment of indigenous egg parasitoid, <i>Trichogramma chilonis</i> (Project ID-3931)                                | Dr. Santoskumar C. Kedar  | 05.11.2024 | 04.11.2027                          | 15.360 |
| 31 | Council of Science & Technology (CST), UP  | GAP-546 | Development of cardamom oil based in-situ gel for the mitigation of Oral Submucous Fibrosis.   | Dr. Narayan Prasad Yadav  | 05.11.2024 | 04.11.2026                          | 13.000 |
| 32 | Department of Science & Technology (DST), Government of India (WISE KIRAN)                           | GAP-547 | Functional characterization of NtMYB308 for regulatory role in phenylpropanoid biosynthesis in tobacco.  | Dr. Nivedita Singh        | 23.12.2024 | 22.12.2027                          | 15.487 |
| 33 | Department of Science & Technology (DST), Government of India (WISE KIRAN)                           | GAP-548 | Biosynthetic pathway modulation for the enrichment of medicinal cannabinoids in <i>Cannabis sativa</i> hairy root.   | Dr. Pallavi Pandey        | 23.12.2024 | 22.12.2027                          | 43.462 |
| 34 | DBT  | GAP-549 | Characterization and stalking of multiple susceptible genes for a broad range of rice pathogens to engineer broad-spectrum resistance in south Indian mega rice varieties by genome editing                          | Dr. Yugander Arra         | 23.12.2024 | 28.02.2027                          | 83.160 |
| 35 | Anusandhan National Research Foundation (ANRF), Science & Engineering Research Board(SERB)           | GAP-550 | Integrative Plant Tissue Culture, Metabolite Profiling, Transcriptomic Analysis for Secondary Metabolite Biosynthesis in <i>Gaultheria fragrantissima</i> .  | Dr. Neelam Prabha Negi    | 29.03.2025 | 28.03.2028                          | 43.241 |
| 36 | Ministry of AYUSH, National Medicinal Plant Board (NMPB)   | GAP-551 | Multiplication and Supply of Quality Planting Materials Selected MAPs for RCFC NR-1 Stakeholders)  | Dr. Rajesh Kumar Verma    | 30.03.2025 | 29.3.2026<br>Extended<br>30.09.2026 | 15.000 |
| 37 | DBT  | GAP-552 | Molecular characterization of microRNA(s) involved in regulation of secondary metabolic pathway in <i>Bacopa Monnieri</i> .  | Dr. Rakesh Kumar Shukla   | 16.04.2025 | 15.04.2028                          | 65.711 |
| 38 | DST  | GAP-553 | Promotion and socioeconomic status and self-employment of Nicobarese tribes through scientific validation of ethno veterinary tribal medicinal knowledge and herbal product development.                             | Dr. Ramesh Kr. Srivastava | 11.04.2025 | 10.04.2028                          | 32.868 |
| 39 | Anusandhan National Research Foundation (ANRF), Science & Engineering Research Board(SERB)           | GAP-554 | Immunomodulating self-healing hydrogel with phytopharmaceuticals encapsulated core-shell microparticles to enhance diabetic wound repair.  | Dr. M Gover Antoniraj     | 17.06.2025 | 16.06.2028                          | 64.292 |
| 40 | DST (WISE KIRAN)   | GAP-555 | Development and evaluation of biopolymer-based nano-biofertilizer (NBF) by utilizing of distillation waste of <i>Mentha</i> crop: A step towards smart fertilizers.  | Dr. Pragya Trivedi        | 01.07.2025 | 30.06.2028                          | 35.808 |
| 41 | DST (WISE KIRAN)   | GAP-557 | Documentation and inventorization of <i>Leucas aspera</i> from different regions of India for molecular profiling and yield potential.   | Dr. Richa Sharma          | 11.06.2025 | 10.06.2028                          | 40.979 |

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| 42 | Anusandhan National Research Foundation (ANRF), Science & Engineering Research Board(SERB)  | GAP-558 | Synthetic biology strategies for converting waste oil into high-value triterpene using non-conventional yeast.   | Dr. Venkata Rao DK             | 26.08.2025 | 25.08.2028 | 54.557  |
| 43 | Council of Science & Technology (UPCST), UP   | GAP-559 | PhytoSingleCellAtlas: AI Powered comprehensive web-application for analysing single cell RNA sequencing and predicting biomarkers, for Medicinal and Aromatic Plants, (Project ID- 5182) | Dr. Aman Chandra Kaushik       | 14.10.2025 | 13.10.2028 | 16.260  |
| 44 | Department of Biotechnology (DBT) (BioCARE)   | GAP-560 | The impact of light-driven epigenetic modification on growth and stress induced memory of plant  | Dr. Deeksha Singh              | 01.11.2025 | 9/29/2024  | 54.000  |
| 45 | Research Designs and Standard Organization (RDSO) Indian Railways                           | SSP-561 | Development of essential Oil-Based Formulation for Odor Neutralization in Bio toilets of Indian Railways   | Dr. Suaib Luqman, Dr. NP Yadav | 01.01.2026 | 31.12.2027 | 99.286  |
| 46 | Protection of Plant Varieties & Farmers Rights Authority (PPA&FRA)                          | GAP-562 | Development of DUS Testing guidelines for <i>Cenetella asiatica</i> (L) Urban.   | Dr. Anil Kr. Gupta             | 01.01.2026 | 31.12.2027 | 6.000   |
| 47 | Sant Sangneria Foundation for Health & Education and Ultra International Limited            | SSP-563 | Deployment and Popularization of sustainable aroma crops based agro and processing technologies in different regions of India  | Dr. Rajesh Kumar Verma         | 06.01.2026 | 05.01.2029 | 100.500 |
| 48 | Anusandhan National Research Foundation (ANRF), Science & Engineering Research Board (SERB) | GAP-564 | Weed-derived bioformulations for sustainable cultivation of <i>Cenetell Asiatica</i> : A multi-disciplinary investigation.   | Dr. Priyanka Rani              | 12.01.2026 | 11.01.2028 | 29.040  |
| 49 | ICMR  | GAP-565 | Deciphering novel and potent alkaloids from <i>Withania Somnifera</i> (L.) Dunal seeds and their underlying molecular mechanism against hepatocellular carcinoma                         | Dr. Kapil Dev                  | 13.02.2026 | 12.02.2029 | 74.202  |
| 50 | UP State Biodiversity Board, Lucknow  | GAP-566 | GIS and AI-Integrated Dynamic Information System for Mapping, Conservation and Commercialization of Medicinal Plants in Uttar Pradesh.   | Dr. Aman Chandra Kaushik       | 25.02.2026 | 24.02.2028 | 10.000  |
| 51 | Anusandhan National Research Foundation (ANRF), Inclusivity Research Grant (IRG) Programm   | GAP-567 | Unravelling the molecular mechanism of <i>Withania Somniferra</i> leaf spot disease by dual RNA-sequencing to develop broad-spectrum resistance strategies.                              | Dr. Yugander Arra              | 12.03.2026 | 11.03.2029 | 61.538  |
| 61 | Anusandhan National Research Foundation (ANRF)  | GAP-577 | Mapping of leaf pinna architectural mutations(s) enhancing root yield using forward genetic screens in Akarkara ( <i>Anacyclus Pyrethrum</i> var <i>depressus</i> )                      | Dr. Tripta Jhang               | 26.03.2026 | 25.03.2029 | 54.651  |