

H.P. Specific Research & Development Projects completed at DEST&CC, Himachal Pradesh

S.No.	Title of Project	Name of Pr. Investigator	Name of Co-PI	University/ Institute	Budget (₹)	Sanction Year	Closed Year
1.	Use of Industry sludge containing Calcium carbonate for manufacturing hard grade bitumen	Dr. Varinder S. Kanwar, Professor - cum- Registrar Deptt. of Civil Engineering	Er. Abhishek Kanoungo, Assistant Professor, Deptt. of Civil Engineering	Chitkara University, Baddi, Solan, Himachal Pradesh-174103	10,00,000 /-	2017-18	2020-21
2.	Assessment of Air Pollution vis-à-vis Environmental Amelioration and its impact on tuberculosis management in industrial and residential settings of Solan district of Himachal Pradesh	Dr. S.K. Bhardwaj, Professor and Head, Deptt. of Environmental Science	Dr. Ajay Kumar Singh, Regional Hospital Solan, H.P. cum Phd Scholar, Deptt. of Environmental Science	Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, H.P.- 173230	8,00,150/-	2017-18	2020-21
3.	Identification of commercial crop diseases using image processing techniques & its environmental effects for the farmers of Himachal Pradesh with feedback system using IOT and Android Application	Dr. Meenakshi Sood, Assistant Professor (Senior Grade), Deptt. of ECE	Dr. Pradeep Kumar Singh, Assistant Professor (Senior Grade),	Jaypee University of Information Technology, Wagnaghat, Solan, H.P., India	9,96,750/-	2017-18	2020-21
4.	Impact of Hydro-Power Projects on Environment: A case study of Beas River Basin in Himachal Pradesh, India for assessing the need	Dr. C. Prakasam, Associate Professor and Coordinator, Geo-informatics	Ms Monika Sharma, Assistant Professor	Chitkara University, Baddi, Solan, Himachal Pradesh-174103	8,00,000 /-	2017-18	2020-21

	of minimum ecological flow in the downstream.	and Building Technology Research Centre, Deptt. of Civil Engineering					
5.	Development of disease resistant somaclonal variants in apple using <i>in vitro</i> selection technique	Dr Manju Modgil, Professor, Deptt. of Biotechnology	Dr Bhupesh Gupta, Extension Specialist,	Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan	9,60,000 /-	2017-18	2019-20
6.	Biotechnological interventions for developing resistance in tomato against Fusarium wilt - a prevalent disease in Himachal Pradesh	Dr Rajnish Sharma, Assistant Professor (Biotechnology) Deptt. of Biotechnology	Dr Parul Sharma, Assistant Professor (Biotechnology) Deptt. of Biotechnology	Dr Y S Parmar University of Horticulture and Forestry, Nauni, Solan	8,40,000/-	2017-18	2019-20
7.	XRF evaluation of soil, water and plants polluted with garbage and industrial sludge; remedial measures	Dr. Varinder Kanwar, Vice Chancellor, Chitkara University	Dr. Ajay Sharma, Professor in Physics, Dr. Arun Lal Srivastav, Assistant Professor,	Chitkara University, Baddi, Solan, Himachal Pradesh-174103	10,00,000 /-	2018-19	2022-23
8.	Public perception of air pollution and the development and testing of a low cost air pollution sensing and warning system	Dr. Varun Dutt, Associate Professor, School of Computer Science & Electrical Engi..	Er. Pratik Chaturvedi, Scientist D,	Indian Institute of Technology Mandi, H.P. 175001	6,79,679 /-	2018-19	2022-23
9.	Termites as prospective	Dr. Radhika	-	C.S.K.H.P.	7,50,000 /-	2018-19	2022-23

	solution for urban solid waste management	Sharma, Assistant Professor,		Krishi Vishwavidyalaya , Palampur, Distt. Kangra, H.P.			
10.	Traditional processing of wild edible plants of District Mandi of Himachal Pradesh, their economic, medicinal, nutritional potential and scope for modern processing to act as a livelihood option	Dr. Tara Devi, Assistant Professor, Department of Botany,	Dr. Sanjeet Singh, Assistant Professor, Department of Economics, Vallabh Govt. P.G. College Mandi	Vallabh Govt. P.G. College Mandi and Sardar Patel University Mandi, H.P.- 175001	6,40,000 /-	2018-19	2022-23
11.	Springshed management: A strategy for climate change adaptation through inventory and revival of springs	Dr. Renu Lata, Scientist 'C' (Environment Governance & Policy),	-	G.B. Pant National Institute of Himalayan Environment and Sustainable Development, Kullu, H.P.	9,90,820 /-	2018-19	2022-23
12.	Role of measurement science in achieving the accuracy in research	Dr. Kiran Gupta, Pr. Scientific Officer, NRTC,	-	National Research and Technology Consortium (NRTC), Parwanoo, Distt. Solan, H.P.	9,90,000 /-	2018-19	2022-23
13.	Development of powdery mildew resistant version of commercial pea genotype "Pb-89" through marker assisted breeding.	Dr. Viveka Katoch, Assistant Vegetable Breeder, Deptt. of Vegetable Science & Floriculture,	Dr. Rajeev Rathour, Senior Scientist, Deptt. of Agricultural Biotechnology, Dr. Akhilesh	C.S.K.H.P. Krishi Vishwavidyalaya , Palampur, Distt.	8,86,000 /-	2018-19	2021-22

			Sharma, Professor and Head, Deptt. of vegetable Science and Floriculture	Kangra, H.P.			
14.	In vitro evaluation of Fusarium wilt resistant/tolerant ginger (Zingiber Officinale Rosc.) produces through biotechnological interventions.	Dr. Manisha Thakur, Assistant Professor, Deptt. of Biotechnology,	Dr. Manica Tomar, Plant Pathologist, Directorate of Extension education,	Dr. Y.S. Parmar University of Horticulture and Forestry, Nauni, Solan, Himachal Pradesh	9,55,000 /-	2018-19	2021-22
15.	Development of microbial consortium as bio-inoculants for drought and low temperature growing crops for organic farming in Himachal Pradesh	Dr. Ajar Nath Yadav, Assistant Professor, Deptt. of Biotechnology. Akal college of Agriculture,	Dr. Sunil Kumar, Assistant Professor, Deptt. of Biotechnology	Eternal University, Baru Sahib, Distt. Sirmaur, H.P.	8,20,000 /-	2018-19	2021-22
16.	Development of ZnO-Cellulose Nanocomposite for extending storage life of Ginger (Zingiber Officinale)	Dr. Sapna Thakur, Assistant Professor, Deptt. of Biotechnology	Dr. Sushma Sharma, Assistant Professor,	Eternal University, Baru Sahib, Distt. Sirmaur, H.P.	8,00,000 /-	2018-19	2021-22
17.	Achieving the Sustainable Development Goals: A mixed methods Study of Water, Sanitation, Hygiene (WASH) and Solid Waste Management among population of Hilly City in North India	Dr. Anmol Gupta, Prof & Head, Department of Community Medicine,	Dr. Amit Sachdeva, Senior Resident, Department of Community Medicine,	Indira Gandhi Medical College, Shimla, Himachal Pradesh.	5,21,850 /-	2019-20	2020-21
18.	Development and	Dr. Younis Ahmad	Dr. Rajesh	Career Point	6,27,000 /-	2019-20	2022-23

	refinement of low cost eco-friendly technologies for enhancing climate change adaptation capacities of the rural and semi urban communities in western Himalaya	Hajam, Head of Department, Deptt. of Zoology,	Kumar, Assistant Professor, Deptt. of Zoology,	University, Hamirpur, H.P.-176041			
19.	Biotransformation of milk industry waste (whey) into bioplastic using noval microorganism from cold desert of Himalayan Region	Dr. Ravi Kant, Assistant Professor, Department of Biotechnology,	-	Himachal Pradesh University, Shimla-5.	8,44,000 /-	2019-20	2022-23
20.	Towards the development of a better, safe, environment friendly filter using Moringa oleifera for treatment of Industrial waste water of Himachal Pradesh	Prof. Saurabh Kulshrestha, Professor and Head, School of Biotechnology,	Dr. Sonali Khanduja Kalra, Assistant Professor, School of Biotechnology,	Shoolini University of Biotechnology and Management Sciences, Solan, H.P.-173212	6,60,000 /-	2019-20	2022-23
21	High Value Himalayan Medicinal Herb's micropropagation for socio-economic upliftment of farmers	Dr. Sneha Sharma, Assistant Professor (Biotechnology), Deptt. of Basic Sciences,	Dr. Monica Sharma, Assistant Professor, Department of Plant Pathology,	Dr. Y. S. Parmar University of Horticulture and Forestry, PO Neri, Distt. Hamirpur, H.P.-177001	7,75,000/-	2019-20	2022-23
22	Bioconversion of waste chicken feathers into N-rich organic fertilizer by keratinolytic bacteria for effective waste management in H.P.	Dr. Sunita Devi, Assistant Professor (Microbiology) Deptt. of Basic Sciences, College of Forestry	Dr. Rohit Bishist, Assistant Professor (Vety. Sciences) Deptt. of Silviculture &	Dr. YS Parmar University of Horticulture and Forestry, Nauni, Solan, H.P.	6,16,000 /-	2020-21	2024-25

			Agroforestry, College of Forestry				
23	Application of Biochar Technology to procure drinking water from ETP water.	Dr. Arun Lal Srivastav, Assistant Professor, Applied Sciences Deptt.	Dr. Ajay Sharma, Professor in Physics	Chitkara University, Barotiwala, Distt. Solan, H.P.	9,95,000 /-	2020-21	2024-25
24	Designing and development of microalgae based prototype for the improvement of air quality in the industrial areas of H.P.	Dr. Pradeep Kumar, Assistant Professor, Faculty of Applied Sciences and Biotechnology	Mr. Sankhajit Pramanik, Director, Microalgae Energy Development India (P) Ltd., 52/38, Ground Floor, C.R. Park, New Delhi	Shoolini University of Biotechnology and Management Sciences, Solan, H.P.	4,20,000 /-	2020-21	2024-25
25	Biotechnological interventions to develop basal rot resistant germplasm of garlic for cultivation in hilly regions.	Dr. Anupama Singh, Assistant Professor, Deptt. of Biotechnology	Dr. Bhupesh Gupta, Sr. Scientist,	Dr. YS Parmar University of Horticulture & Forestry, Nauni, Solan, H.P.	5,87,000 /-	2020-21	2024-25
26	Extraction of keratin from poultry waste biomass of and its application in the production of value added products	Dr. Ashok Kumar, Assistant Professor, Deptt. of Biotechnology and Bioinformatics	Dr. Poonam Sharma, Associate Professor, Deptt. of Biotech. and Bioinformatics	Jaypee University of Information Technology, Wahnaghat, Distt. Solan-173234, H.P.	7,60,000 /-	2020-21	2024-25