

## ONGOING SPONSORED PROJECTS, IIIT NOIDA

S. No.	Principal Investigator	Co-Principal Investigator(Co-PI)/ Co-Investigator(Co-I)	Title	Funding Agency	Start Date	End Date	Grant Amount(In Lakhs)	Department
1	Prof. Indu Verma, PGIMER Chandigarh	Prof. Sudha Srivastava (Co-PI)	Development and evaluation of rapid diagnostic test/device for pediatric pulmonary tuberculosis based on the detection of host/mycobacterial proteins in urine samples	ICMR	Approved (October 2023)		INR 53.80 Lakh (IIIT)	Biotech
2	Prof. S Krishna Sundari	Dr.Kamlesh Shukla (Pt.RSU)	Evaluate ectomycorrhizal diversity in mining-disturbed and undisturbed forest ecosystems in Bastar region, generate metabolic activity profiles of forest ectomycorrhizae to propose best performing isolates for soil restoration	DBT	Sanctioned 18.01.2024	17.01.2027	59.80400 Lakh (Total) INR 35.55200 Lakh (IIIT)	Biotech
3	Prof. PammiGaubha	Prof.Shweta Dang	Exploring the efficacy of plants and microbes for the remediation of E-waste contaminated soil.	Ministry of Environment, Forest & Climate Change	27.11.2019	26.11.2024	INR 48.44 Lakhs	Biotech
4	Dr. Rajnish Prakash Singh	NA	Molecular Characterization of Type VI secretion system in Enterobacter cloacae SBP-8 to employed as antibacterial tool	DBT	2021	2026	INR 1.13 Crore	Biotech
5	Dr Chakresh Jain	Prof Shweta Dang	Deciphering potential gene markers and variants associated with Adrenoleukodystrophy, based on Machine learning and system biology approaches on RNA-Seq data towards therapeutics	DBT	24.01.2024	24.01.2026	INR 28.43 lakhs	Biotech
6	Prof Vibha Rani	Prof PammiGaubha	Study to explore Cross Kingdom Regulation of Anticancerous Indian Herbs derived XenomiRs in Lung cancer: Basic research for Future herbal oncotherapeutics	ICMR	20.02.2023	19.02.2026	INR 15 lakhs (for First Year)	Biotech
7	Prof Shweta Dang	Prof PammiGaubha	Nano-carrier based nose to brain delivery for anti-psychotic drugs and natural compounds	ICMR	01.02.2023	31.01.2026	INR 11 lakhs (for first Year)	Biotech
8	Prof. Pammi Gauba & Prof. Vibha Rani	Prof. Shweta Dang (Co-PI) Centre Representatives: Prof. Reema Gabrani & Prof. Indira Sarethy	Development of Natural Product Laboratory for Advance Research	DST-FIST	Mar-22	Mar-27	INR 66.00 lakhs	Biotech
9	Prof. Sudha Srivastava	Dr. Deepshi Thakral (Co-PI)	Development of Electrochemical biosensor for detection of circulating tumor DNA mutations in Acute myeloid leukemia	ICMR	Jul-22	Jul-25	INR 33.142 lakhs (for first two years)	Biotech
10	Dr. Shazia Haider	Prof. Pammi Gauba	Identification of key regulators and their controlling Mechanism in a combinatorial amyotrophic lateral sclerosis Network: an integrated bioinformatics analysis	Life Sciences Research Board (LSRB), DRDO	Jun-22	Jun-25	INR 24 lakhs	Biotech

11	Dr. Jyoti Sharma (Institute of Bioinformatics)	Prof.Vibha Gupta (JIIT)	Development of computational framework for COVID-19 multi-omics data analysis.	ICMR	May 2022	April 2024	INR 11.04 lakhs	Biotech
12	Prof.Vibha Gupta (JIIT)	Prof Punit Kaur (AIIMS) AND Dr Jyoti Sharma (Institute of Bioinformatics)	Reverse pharmacology and multi-target approach for designing of novel therapeutics and candidates for Covid-19.	ICMR	15.04.2022	April 2024	INR 21.7 lakhs	Biotech
13	Prof. Anirban Pathak	Dr. Sandeep Mishra	Solving complex real world problems using quantum computers	Ministry of Electronics and Information Technology (MeitY)	25.04.2023	24.04.2025	INR 1.92 Lakhs	PMSE
14	Dr. Ashish Bhatnagar	Prof. D.K. Rai (JIIT), Dr. kuldeep Mishra (JUET), Dr. Manoj Tripathi (JIIT)	Development of Li/Na Rechargeable Batteries based on Nanostructured Materials derived from Metal organic Framework and Metal Hydrides	Scheme for Promotion of Academic and Research Collaboration (SPARC), MoE	28.07.2023 (Sanctioned and started, but fund is not received)	27.07.2025	INR 45 Lakhs	PMSE
15	Prof. Anirban Pathak	Dr. A. Verma	Designing of Devices and Protocols for Quantum Hacking, Random Number Generation and Secure Communication	DST	24-04-2019	31-03-2024	INR 222.16 Laks	PMSE
16	Prof. Anirban Pathak	NA	Generation of Entangled Photons and its Applications to Quantum Computation and Information Processing	DST	24-04-2019	31-03-2024	INR 40 lakhs	PMSE
17	Prof. Navendu Goswami	NA	Green Synthesis and Enhanced Thermoelectric Performance through Electronic Structure Modification	SERB-DST	02-03-2022	01-03-2025	INR 19.14 Lakhs	PMSE
18	Anuraj Panwar	Gagan Kumar (IIT Guwahati)	Exploring tunable electromagnetic induced transparency effect using exotic materials in terahertz metamaterials	SERB-DST	10-03-2022	09-03-2025	INR 32.55 Lakhs	PMSE
19	Dr. Vikas Malik	NA	Study of realistic models of coulomb glass system with applications to nanotechnology	SERB	24-01-2023	23-01-2026	INR 31.82 Lakhs	PMSE
20	Dr. Guruprasad Kadam	NA	Transport coefficients near the critical point of strongly interacting matter	DST	02-04-2018	01-04-2024	INR 35 Lakhs	PMSE
21	Dr. Dinesh Tripathi	Dr. Ashish Bhatnagar	Free Standing Flexible Thermoelectric generators for Internet of Things (IOT) Devices	CST UP	02-05-2023	02-05-2026	INR 11.56 Lakhs	PMSE
22	Dr. Ashish Bhatnagar	Prof. D K Rai, Dr. Dinesh Tripathi, Dr. Manoj Tripathi	Tailored MXene as high capacity and ultra-fast anode for lithium-ion batteries: Experimental and Theoretical Studies	SERB, DST	29-01-2023 (sanctioned)		INR 22.51 Lakhs	PMSE
23	Dr.Ashish Bhatnagar		MgH <sub>2</sub> based heterostructure for application in hydrogen fueled devices: Experimental and theoretical Investigation	SERB, DST	29-01-2023 (sanctioned)		INR 15.46 Lakhs	PMSE
24	Dr. Kapil Dev Tyagi	Dr. Abhishek Kashyap	Acoustically detecting and localizing the unmanned aerial vehicle using vector sensor	SERB- DST, India	Dec. 2022	Dec. 2024	INR 29.79 Lakhs	ECE

25	Dr Yogesh Kumar	NA	Development of Low Cost Spectrum Tunable Spectrum Selective Photodetectors	DST, SERV, Govt. of India	09.01.2023	31.12.2026	29.26L	ECE
26	Dr. Megha Agarwal	Prof. R. B. Pachori	Fundus image based diagnosis and clinical decision support system for early prediction of glaucoma and grading of diabetic retinopathies	BIRAC	Dec-23	Aug-24	10 Lakh	ECE
27	Dr Pato Kumari	Prof Alka Tripathi	Seismic scattering modelling in anisotropic layered media (SEISMAL)	ARB, DRDO	Jul-22	Jul-25	INR 20.97 Lakhs	Mathematics
28	Dr. Lakhveer Kaur	Prof. K.Murugesan, Department of Mathematics, National Institute of Technology Tiruchirappalli	Application of Lie Symmetry Analysis, Singularity Structure Analysis and Lagrangian formalism to study the time evolution of Epidemiological Models	National Board for Higher Mathematics (NBHM) DAE, Govt. of India, (02011/5/2023 NBHM (R.P)/ R&D-II/1140)	Jan-23	Jan-26	INR 15.76 Lakhs	Mathematics
29	Dr Himani Bansal	Dr Shruti Jaiswal	Detection and Exclusion of Obscene Images in Image Capturing Devices.	Core Research Grant from the Science and Engineering Research Board (SERB)	2-2-24	Jan 26	INR 17.03 Lakhs	CSE&IT