

List of ongoing projects during the Financial Year 2023-24

Sl. No.	Project Name	Funding Agency	Name of PI	Sanction No	Sanction date	Capital	Fellowship	Recurring	Total Project Cost	Funding Agency Status
1	Air Pollution Monitoring Project	UPPCB, Lucknow	Prof. R.C. Vaishya, CED	F02241/C.L./8/96	05.06.2006	-	-	7,40,400	7,40,400 Per Year	State (UP)
2	Ambient Air Quality Monitoring and Noise Monitoring at three locations in Allahabad City	UPPCB, Lucknow	Dr. N. R. Rawal, CED	F52976/CL/161/MNNIT/Air Monitoring (khumbh)/2014	19.12.2014	-	-	10,56,000	10,56,000 Per Year	State (UP)
3	Design and Innovation Centre	MHRD, New Delhi	Dr. Shivesh Sharma, Biotechnology	F. No. 17-2-2014-PN.1 (Vol. II)	20/01/2015	10,00,000	38,85,000	51,15,000	1,00,00,000	Central
4	Role of poly aromatic hydrocarbon (PAH) in exonal switch of cd5 gene of human T cells	DST, New Delhi	Ms. Smita Kumari, WoS-B	DST/WOS-B/2018/775-HFN (G)	15.11.2019	63,956	12,94,560	9,27,852	22,86,368	Central
5	AN IoT enabled portable device for OND/ONSD based automated detection of Intracranial Pressure (ICP) through ocular USG Imaging	DST, New Delhi	Dr. Basant Kumar, ECED	TDP/BDTD/22/2021/General	18.03.2021	4,90,000	13,50,240	6,33,300	24,73,540	Central
6	Point-of-Care AI Technology based X-ray imaging device for automated early diagnosis of viral respiratory diseases	DST, New Delhi	Dr. Mukul Shukla, MED	TDP/BDTD/05/2021 (G) & (C)	23.03.2021	29,58,011	14,19,840	7,82,067	51,59,918	Central
7	Sustainable Energy System for Achieving Novel Carbon Neutral Energy Communities (SUSTENANCE)	DST, New Delhi	Prof. Nand Kishor, EED/ Dr. Manohar Yadav, GIS	DST/TMD/INDIA/EU/ILES/ 2020/19 (C)	30.06.2021	30,90,800	25,89,120	7,55,300	64,35,220	Central
8	Generation of comprehensive methylome towards developing a qPCR based epigenetic biomarker panel for early detection of buccogingival and tongue carcinoma	ICMR, New Delhi	Dr. Manisha Sachan, Biotechnology	5/13/24/2020/NCD-III	06.07.2021	-	12,94,560	22,59,187	35,53,747	Central
9	Development of an Integrated intelligent surveillance system for suspicious behaviour analysis	SERB, New Delhi	Dr. Dushyant Kumar Singh, CSED	CRG/2020/001982	14.09.2021	10,00,000	11,64,000	3,92,400	25,56,400	Central
10	Mentoring and Monitoring of Government School of Uttar Pradesh under Rastriya Aaviskar Abhiyan	Basic Education Dept Govt UP	Dr. Shivesh Sharma, DBT	RAA/4518/2021-22	09.12.2021	1,00,000	3,00,000	7,25,000	11,25,000	State (UP)
11	Phenotypic Characterization and gene mapping of novel early rice flowering mutants during the floral transition and seed formation	SERB, New Delhi	Dr. Nand Kumar Singh, Biotechnology	CRG/2021/001019	27.12.2021	-	13,50,240	16,86,024	30,36,264	Central
12	Design of two-dimensional digital filters using finite-frequency reduced-order modelling	SERB, New Delhi	Dr. Deepak Kumar, EED	MTR/2021/000722	16.02.2022	-	-	6,60,000	6,60,000	Central
13	Understanding the human endogenous retrovirus-mediated regulation of CD5 isoform expression and its functional characterization	SERB, New Delhi	Dr. Ambak Kumar Rai, DBT (PI) Dr. Sameer Srivastava, DBT (Co-PI)	CRG/2021/002331	12.01.2022	13,24,600	13,50,240	14,88,484	41,63,324	Central
14	Development of Non-Invasive Saliva based Glucometer for Diabetes Management	SERB, New Delhi	Dr. Shweta Tripathi, ECED	CRG/2021/001199	21.01.2022	4,50,000	13,50,240	5,48,524	23,48,764	Central
15	Engineering adhesive CeO ₂ -Pd nanozyme as effective antibiotics towards bacteria killing	SERB, New Delhi	Dr. Seema Nara, Biotechnology	CRG/2021/002954	03.02.2022	15,00,000	13,50,240	15,72,000	44,22,240	Central
16	Development of Aerobic Granular Sludge based biological	BRNS, DAE,	Dr. Joyabrata Mal,	56/14/02/2022-BRNS/10224	03.06.2022	7,50,000	11,64,000	8,94,100	28,08,100	Central

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17	Regional Centre for Geodesy (for four Institute)	DST/NRDMS	Dr. Ramji Dwivedi, GIS	NRDMS/02/79/019	31.03.2022	77,00,000	57,90,720	6,00,000	1,40,90,720	Central
18	Influence of microbial diversity on heavy metal removal and bio-electricity generation in a constructed wetlands integrated microbial fuel cell system: A sustainable approach for treatment of heavy metal contaminated industrial waste water	SERB, New Delhi	Dr. Radharani, Biotechnology	SPG/2021/004678	25.08.2022	24,90,000	11,64,000	17,95,400	54,49,400	Central
19	Novel Processes of Synthesis of Physically Modified Starches for Application in Food Products and Agrowaste Composite Packaging	UPCST Lucknow	Dr. Harinder Singh, Chemical Engg.	CST/AAS/2022/D-1211	29.08.2022	-	7,44,000	3,00,000	10,44,000	State (UP)
20	Thermal Performance evaluation of Earth-Air tunnel assisted Greenhouse in tropical conditions like Uttar Pradesh	UPCST Lucknow	Dr. Ashwini Kumar Yadav, MED	CST/D-1182	29.08.2022	-	-	8,00,000	8,00,000	State (UP)
21	Design of Wideband Wearable Antennas for Medical Internet of Things (MIoT) and 5G Used in Remote Healthcare Applications	UPCST Lucknow	Dr. Vijay Shankar Tripathi, ECED	CST/D-1185	29.08.2022	-	7,92,000	4,00,000	11,92,000	State (UP)
22	Development of Electric Vehicle Charging Infrastructure for Building Micro-Grids Containing Renewables for Smart City Applications	UPCST Lucknow	Dr. Prashant Kumar Tiwari, EED	CST/D-1186	29.08.2022	-	7,92,000	3,00,000	10,92,000	State (UP)
23	Structural Health Monitoring of Buildings Using Electro-Mechanical Impedance Techniques	UPCST Lucknow	Dr. Rama Shanker, CED	CST/D-1192	29.08.2022	-	7,92,000	1,20,000	9,12,000	State (UP)
24	Internet of Things (IoT) and Machine Learning (ML) based Smart UAV-Assisted Emergency System for Disaster Management	UPCST Lucknow	Dr. J. Sathish Kumar, CSED	CST/D-1219	30.08.2022	-	4,80,000	1,00,000	5,80,000	State (UP)
25	Artificial Intelligence Based Identification and Segregation of Plastic Waste from Garbage for Enhanced Recycling	UPCST Lucknow	Dr. Divya Kumar, CSED	CST/D-1220	30.08.2022	-	7,44,000	3,00,000	10,44,000	State (UP)
26	Investigation of two-fluid flows (micropolar-Newtonian) through a complex porous medium and their applications in engineering sciences	UPCST Lucknow	Dr. Pramod Kumar Yadav, Mathematics	CST/D-1306	01.09.2022	-	7,44,000	2,60,000	10,04,000	State (UP)
27	Polymeric Nanocomposite for bonding dissimilar material surfaces	DRDO, Kanpur	Dr. Sunil Kumar Gupta, MED	TR/0569/CARS/138	29.08.2022	-	-	9,90,000	9,90,000	State (UP)
28	Study on therapeutic and preventive efficacies of linoleic acid in hamster model of visceral leishmaniasis	ICMR, New Delhi	Dr. Ambak Kumar Rai, Biotechnology	6/9-7 (265)/KA/2021/ECD-II	22.11.2022	-	-	40,07,384	40,07,384	Central
29	Computational screening to identify plant derived DPP IV inhibitors as therapeutics of diabetes type 2	SERB, New Delhi	Dr. Ashutosh Mani, Biotechnology	CRG/2022/002804	19.12.2022	29,00,000	13,50,240	11,23,524	53,73,764	Central
30	Solar PV Supported Reconfigurable EV charger with Reduced Switching Devices	Meity, New Delhi Under NaMPET-III	Dr. Rajesh Gupta, EED	25(6)/2020-ESDA	10.06.2022	9,64,800	9,81,360	11,24,816	30,70,976	Central

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31	Investigating healthcare data management using blockchain technology and Internet of Things	SERB, New Delhi	Dr. J. Sathish Kumar, CSED	EEQ/2022/000287-C & G	18.01.2023	3,27,492	13,50,240	6,72,123	23,49,855	Central
32	Inspire Fellowship Scheme	DST, New Delhi	Ms. Harshita, Inspire Fellow	DST Inspire Fellowship/REL1/2020-21	27.01.2023	-	4,58,960		4,58,960	Central
33	Development of a multiplex QPCR assay based on miRNAs expression in liquid biopsy for early diagnosis of epithelial ovarian carcinoma	UPCST Lucknow	Dr. Manisha Sachan, Biotechnology	CST/Biotech/RS-1941 D-1230	30.08.2022	-	-	6,00,000	6,00,000	State (UP)
34	Development and hardware implementation of deep learning based pre-processing techniques for thermal image application	DRDO, Kanpur	Dr. Basant Kumar, ECED	DIR/ECS/IRDE/PROC(PCR)/21-22/0219	31.03.2022	-	-	15,00,000	15,00,000	Central
35	Design and development of a non-invasive, smart, and portable device for real-time assessment of bone fracture healing progression	SERB, New Delhi	Dr. Abhishek Kumar Tiwari, AMD	CRG/2022/003723	02.03.2023	25,00,000	13,50,240	9,35,024	47,85,264	Central
36	Monitoring & Investigation on lightning phenomena and its associated processes using lightning detection systems (LDS) at Collaborating Institutes	NRSC	Dr. Ramji Dwivedi, GIS	D052263601	24.11.2022	-	-	1,00,000	1,00,000	Central
37	Modeling of Shocks Induced Sympathetic Detonation in Explosive Warheads/Bombs/Munitions	DRDO, CARS	Dr. A. K. Upadhyay, AMD	HEMRL/CARS/EDS/22-23/02	19.09.2022	7,22,000	1,20,000	1,51,560	9,93,560	Central
38	Design and Development of a proof-of-Concept Model of a Self-Deployable Ultra-light Weight Adaptive Inflatable Structures	SERB, New Delhi	Dr. Satish Kumar, AMD	CRG/2022/000671	16.02.2023	4,99,998	13,50,240	8,56,023	27,06,261	Central
39	Investigating Aetiology of Early Age Onset Colorectal Cancers (EOCRC) using MultiOmics technology: A case Control Study	ICMR, New Delhi	Dr. Sameer Srivastava, Biotechnology	5/13/32/2022/NCD-III	13.03.2023	-	4,38,960	24,85,169	29,24,129	Central
40	Effect of polyherbal formulations on energy and stamina	Emami Limited	Dr. Vishnu Agarwal, Biotechnology	Nil	06.02.2023	-	-	4,56,000	4,56,000	Industrial
41	Novel Ionic Liquid based Nano-photocatalytic Conversion of WCO into Biodiesel and Triacetin under Synergic Effects of Cavitation & Microwave: A Holistic Technique for Improved Economics with Reduced Damage to Environment and Safety	SERB, New Delhi	Dr. Dipesh Shikhand Patle, Chemical Eng.	CRG/2022/000825	28.04.2023	21,90,698	13,50,240	11,74,200	47,15,138	Central
42	Experimental and numerical study on the interaction of a shock tube generated blast wave with structures for blast attenuation and mitigation	ARDB, New Delhi	Dr. Abhishek Kundu, AMD	ARDB/01/1032072/M/I	24.04.2023	6,30,000	7,44,000	6,78,120	20,52,120	Central
43	Experimental Investigations on Nucleate pool boiling with enhanced surface geometries using EDM process	SERB, New Delhi	Dr. Ashwini Kumar Yadav, Mechanical Engineering	CRG/2022/001001	22.05.2023	11,40,000	-	5,81,500	17,21,500	Central

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44	Developing a framework and designing assessment metrics for cyclic social innovation for circular economy in India	SPARC	Dr. Tripti Singh, SMS dr. Yatish Joshi, SMS	SPARC/2019-2020/P2311/SL	28.07.2023	-	-	45,59,690	45,59,690	Central
45	Metabolic Engineering of Lactic Acid Bacteria for the high yield of Lactic Acid	DST, New Delhi	Ms. Bhavana, Tondan, Mentor Dr. Rupika Sinha, Biotechnology	DST/WOS-A/LS-322/2021 (G)	28.07.2023	-	16,99,200	5,89,536	22,88,736	Central
46	Analysing the Behavioural Intention of Instructors to Adopt Blockchain in Grading and Certification	SPARC	Prof. Ganesh P Sahu, SMS	SPARC/2019-2020/P2364/SL	28.07.2023	-	-	49,99,766	49,99,766	Central
47	Making Indian Commercial road Vehicles Environment Friendly and Fuel Efficient through Aerodynamics Research	SPARC	Dr. Akshoy Ranjan Paul, AMD	SPARC/2019-2020/P2070/SL	28.07.2023	-	-	47,57,663	47,57,663	Central
48	Explorative Study of Expenditure based Model of Income Tax to curb under-reporting of income: Strategies for efficient and effective Direct Tax collection system	ICSSR, New Delhi	Dr. Ravindra Tripathi, HSS	02/4/2022- 23/ICSSR/RP/MJ/GEN	03.05.2023	-	-	15,00,000	15,00,000	Central
49	ML Enabled RISC-V based i - LoRa SOC for Forest event monitoring, Under Chips to startup (C2S) Programme	MeiTy, New Delhi	Prof. R. K. Nagaria, ECED Co- Dr. Santosh Kumar Gupta	EE-9/2/2021-R&D-E	19.05.2023	-	72,61,000	23,39,000	96,00,000	Central
50	Investigating the role of nitric oxide and indole acetic acid -releasing chitosan nanoparticles induced alleviation mechanisms of chromium and metatufuron methyl toxicity in rice and tomato	CSIR, New Delhi	Prof. Shivesh Sharma, Biotechnology	38(1528)/23/EMR-II	05.07.2023	-	16,42,560	9,00,000	25,42,560	Central
51	Prototype development of a photovoltaic solar cell with a High Conversion Efficiency: An Application of Two-Dimensional Materials	CSIR, New Delhi	Dr. Yogendra Kumar Prajapati, ECED	22/0882/23/EMR-II	13.07.2023	7,00,000	17,84,160	9,00,000	33,84,160	Central
52	An Assessment of the Atal Pension Yojana (APY) Awareness and Penetration in Prayagraj Division of Uttar Pradesh	ICSSR, New Delhi	Prof. Tanuj Nandan, Co- Ordinator Dr. Ravindra Tripathi & Other	212/CRP-2023-724/APY/SCD	25.09.2023	75,000	3,00,000	4,31,250	8,06,250	Central
53	Assessing the Reach and Socio-economic Impact of Skill India Mission (PM Kaushal Vikas Yojana): A Rigorous Evaluation and Model Development for Enhancing the Scheme's Impact in Uttar Pradesh	ICSSR, New Delhi	Dr. G. P. Sahu, SMS	254/CRP- 2023/1059/SIP(PMKVY)/SCD	25.09.2023	-	-	15,00,000	15,00,000	Central
54	Multi-sensor-multi-platform LiDAR systems integrated with a camera and artificial intelligence for sustainable forest management and urban tree inventories	UPCST, Lucknow	Dr. Manohar Yadav, GIS	CST/D-1509	26.10.2023	-	9,36,000	450000	13,86,000	State (UP)
55	Green Energy Management & Audit System Usin IoT: A Study Based in Uttar Pradesh	UPCST, Lucknow	Dr. Yatish Joshi (resigned), Dr. Tanuj Nandan, Current PI	CST/D-1508	26.10.2023	-	9,36,000	450000	13,86,000	State (UP)
56	Development of novel shape memory polyment composites for shape fixity, recovery and functional properties	UPCST, Lucknow	Dr. Abhishek Kumar, AMD	CST/D-1273	19.10.2023	-	6,72,000	3,00,000	9,72,000	State (UP)
57	Spectrally Efficient Antenna Design for 5G and 6G using Reconfigurable Intelligent Surface	UPCST, Lucknow	Dr. Vinay Kumar, ECED	CST/D-1268	19.10.2023	1,50,000	10,08,000	2,25,000	13,83,000	State (UP)

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58	Assessment of patient derived Exosomal Contents and Computational Analysis: Implication in Early Diagnosis, Risk Assessment for Pancreaticobiliary Cancer in India	DBT, New Delhi	Dr. Girijesh Kumar Patel, Biotechnology	BT/RLF/Re-entry/54/2020	22.03.2023	-	-	53,60,000	53,60,000	Central
59	Secure message dissemination in cognitive vehicular cloud network for improved road safety	UPCST, Lucknow	Dr. Arun Prakash PI, SMS	CST/D-1399	20.10.2023	-	9,00,000	2,50,000	11,50,000	Central
60	Awareness Workshop: Advances in Geospatial Techniques for disaster Mitigation	Indian Institute of Remots Sensing, Dehradun	Dr. Ramji Dwivedi, GIS	IIRS/DO/DMSP-ASCB/Cap Build/2023	13.01.2022	2,47,000	-	-	2,47,000	Central
61	Design and development of a continuous compact integrated hydroponics-biosorption system: A sustainable approach for cultivation of vegetables/herb plants and domestic waste water treatment simultaneously	UPCST, Lucknow	Dr. Sushil Kumar, Chemical Engineering	CST/D-1412	20.10.2023	-	-	6,50,000	6,50,000	State (UP)
62	Roll of small solid particles to control the damage due to storage explosion	UPCST, Lucknow	Dr. Gorakh Nath, Mathematics	CST/D-1522	26.10.2023	-	9,36,000	2,00,000	11,36,000	State (UP)
63	Design and Development of Biomechanical Therapeutics to Mitigate Osteoporosis in Postmenopausal Women with Diabetes Mellitu	Ministry of Education, New Delhi	Dr. Abhishek Kumar Tiwari, AMD	MoE-STARs/STARs-2/2023-0527	26.09.2023	12,00,000	13,50,240	8,49,760	34,00,000	Central
64	Artificial Intelligence - Based Real-time Posture Correction System for Desk Workers in Medical Settings using Wearable Devices and Computer Vission	UPCST, Lucknow	Dr. Rupesh Kumar Dewang, CSED Dr. Ranvijay. CSED	CST/D-2102	11.12.2023	-	6,00,000	2,00,000	8,00,000	State (UP)
65	Design of Novel heterogeneous catalysts for CO ₂ capture from flue gas baed on density fundctonal theory computations	SERB, New Delhi	Dr. Manju Verma, Chemicals Engineering	EEQ/2023/000011	20.12.2023	20,00,000	13,50,240	8,41,024	41,91,264	Central
66	Design and development of ML based adaptive optimal control algorithms for efficient regulation of the Wheeled Robots for Disaster Response.	SERB, New Delhi	Dr. Sumit Kumar Jha, ECED	CRG/2023/004912	18.01.2024	3,89,752	13,50,240	6,68,999	24,08,991	Central
67	Project on Training programs in structural Bioinformatics and Drug Designing	DBT, New Delhi	Prof. R. P. Tiwari AMD, Prof. A. K. Ojha, Physics Dr. Ashutosh Mani, BTD Prof. Ramesh Pandey AMD	BT/PR40335/BID/7/969/2020	20.09.2023	-	-	16,21,000	16,21,000	Central
68	Delineating the role of Epigenetic modifications over Socs3 Promoter region in nanosized Titanium dioxide sensitized airways of murine model	DST, New Delhi	Dr. Vani Mishra, WOS-A Under Prof. Shivesh Sharma, Biotechnology	DST/WOS-A/LS-305/2021 (G)	10.11.2023	-	23,36,400	7,96,614	31,33,014	Central
69	Coordinated operation of Cloud-hosted Digital Twin for Hydrogen Electrolyzers in Weak Grids [CODE Grid]	SERB, New Delhi	Dr. Navneet Kumar Singh, EED	EEQ/2023/000920	16.02.2024	98,000	13,50,240	6,23,324	20,71,564	Central
70	Addressing the role of Social Innovation in Promoting Circular Economy Practices in in India	ICSSR, New Delhi	Dr. Richa Singh Dubey, Senior Fellowship Under, Prof. Tripti Singh SMS	2-10/2023-24/SF/GEN	11.01.2024	-	5,40,000	40,000	5,80,000	Central

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71	Plant growth-promoting bacteria as bioinoculants for combating drought stress in long bean (<i>Vigna unguiculata</i> ssp. <i>sesquipedalis</i>)	SERB, New Delhi	Dr. Ashutosh Mani, Biotechnology	CRD/2022/000585	23.02.2024	-	13,08,480	27,07,424	40,15,904	Central
72	Prototype design and performance analysis of an energy efficient domestic biogas cook-stove burner	SERB, New Delhi	Dr. Bireswar Paul, MED	CRG/2023/002506	18.03.2024	14,51,061	17,53,920	10,79,498	42,84,479	Central
73	Investigating the role of RSPO2 mediated tumor suppressive or oncogenic activity in metastatic CRC cells: A therapeutic approach	SERB, New Delhi	Dr. Sameer Srivastava, Biotechnology	CRG/2023/006956	05.03.2024	10,00,000	13,50,240	21,16,024	44,66,264	Central