

S.N.	Title of Project	Start Date	Year of completion	DEPARTMENT	PI	Name of Funding agency	Total	Project Code No.
1	Stability Evaluation of Dump Slopes and Developing Slope Stability Models for Design of Long Term Stable Sump Slopes through Proper Benching and Vegetation – Part B	20.02.2020	31.05.2024	Mining	Dr. Gauri S. Prasad Singh	NCL	1,41,13,000.00	R&D/SA/NCL/Mining./19-20/09
2	Bioluminescence based monitoring of tumor progression and treatment by apoptotic pathway	24.12.2019	18.12.2024	Pharmaceutical	Dr. Deepak Kumar	DBT	42,50,000.00	R&D/CA/DBT/Pharma/19-20/05
3	Pathology on a Spinning Disc	15.05.2020	14.05.2024	Mechanical	Dr. Arnab Sarkar	MHRD - STARS	94,10,000.00	R&D/SA/MHRD-STARS/Mech/20-21/01
4	3 D Bio Stereolithography for Enggineering fucntional Tissues	09.07.2020	06.07.2025	SMST	Dr. Pralay Maiti	SERB	37,24,640.00	R&D/IIT(BHU)SERB/SMST/20-21/01
5	Development of Performance based mix design process: A re-look at the Marshall Mix design process for the production of strong and durable	30.09.2020 Extended upto 30.06.2024	Extended upto 30.06.2024	Civil	Dr. Ankit Gupta	NHAI	91,21,000.00	R&D/SA/NHAI/Civil/20-21/03
6	AMWATCH: Defining the AMR Burden of Antimicorbial Manufacturing Waste in Puducherry and Chennai	19.12.2020	13.12.2024 (extended)	Pharmaceutical	Dr. M.S. Muthu	DBT	1,06,50,720.00	R&D/SA/DBT/Pharma/20-21/01
7	Existence and Stability analysis of periodic solution of variable time implusive neural network	28.01.2021	1-8-2024	Mathematical	Dr. Subir Das	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Mat/20-21/01
8	Validation of Glutathione synthetase from Leishmania donovani as new drug target or discovery of new drug candidate	06.02.2021	28.07.2024 (extended)	Biochemical	Dr. Vikash Kumar Dubey	ICMR	32,16,128.00	R&D/SA/ICMR/BCE/20-21/03
9	Spatially resolved digital holography plarization microscope for diagnosis applications	12.03.2021	08.09.2024	Physics	Dr. Rakesh Kumar Singh	DBT	41,44,840.00	R&D/SA/DBT/Phy/20-21/04

10	Analysis and design of sub-millimeter wave tuneable gyrotron for DNP- NMR Spectroscopy application	05.04.2021	30.09.2024	Electronics	Dr. M. Thottappan	SERB	50,16,264.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/21-22/01
11	Improvement of delamination fracture toughness in nano-graphene particles reinforced polymer composite laminates: An experimental- numerical approach	31.03.2021	15.03.2024 Extended till 30.06.2024	Civil	Dr. Rosalin Sahoo	SERB	18,30,400.00	R&D/IIT(BHU)VARANASI(SERB)/Civil/21-22/01
12	Development of photoactivated transfer hydrogenation in catalysis for heat generation cancer transfer	17.02.2021	16.02.2026	Chemistry	Dr. Samya Banerjee	DST	35,00,000.00	R&D/SA/DST INSPIRE/Chy/21-22/01
13	Characterization of indigenous cow's dung and urine for scientific advancement and development of utility items	30.06.2021	6-23-2024	Biochemical	Dr. Abhishek Suresh Dhoble	DST - SUPRA	28,60,577.00	R&D/PFMS/SA/DST/BCE/21-22/01
14	Tailoring correlations of light using plasmonic and nano structure	15.07.2021	24.06.2024	Physics	Dr. Rakesh Kumar Singh	BRNS	33,69,850.00	R&D/SA/BRNS/Phy/21-22/02
15	Emergent phases in 2D quantum materials and Heterostructures	16.02.2021	15.02.2026	Metallurgical	Dr. Joysurya Basu	DST	24,50,000.00	R&D/SA/DST/Met/21-22/01
16	Design, development and demonstration of solar-IV integrated on board and off board electric rickshaw charging Infrastructure	09.08.2021	20.08.2024	Electrical	Dr. Vivek Nandan Lal	DST	87,81,020.00	R&D/SA/DST/EE/21-22/03/282
17	Early stage detection of Non-small cell lung cancer by developing aptamer-graphene microarray	27.08.2021	22.08.2024	Biomedical	Dr. Marshal	ICMR	50,00,000.00	R&D/SA/ICMR/BME/21-22/02/285
18	Demonstrable Prototype of IoT enable DC/AC smart grid at Library Building, IIT(BHU), Varanasi with solar photovoltaic Integration	03.09.2021	24.08.2023	Electrical	Dr. Rajeev Kumar Singh	I-DAPT, IIT(BHU)	19,75,000.00	R&D/SA/I-DAPT IIT(BHU)/EE/21-22/04/286

19	Bioengineering of living materials to fabricate functionalized bacterial nanocellulose for high performance applications	27.09.2021	26.09.2026	Biochemical	Dr. Prodyut Dhar	DBT	42,50,000.00	R&D/SA/DBT/BCE/21-22/03/293
20	Study on effect of temperature and mean stress on fatigue strength of turbine aerofoil alloy	18.11.2021	4.5 yrs	Metallurgical	Dr. Girija Shankar Mahobia	CARS, DRDO	2,81,90,000.00	R&D/SA/DRDO/Met/21-22/03/295
21	Development of perovskite oxides SrCeO <sub>3</sub> and SrCeO <sub>4</sub> as high temperature thermal barrier coating (TBC) material for aerospace application	25.10.2021	24.10.2024	Physics	Dr. (Mrs.) Shail Upadhyay	DRDO	29,79,420.00	R&D/SA/DRDO/Phy/21-22/03/296
22	Preparation of Dense Palladium/Palladium-alloy Membranes and Optimization of Multi-pass Membrane Separator to Generate Ultra-Pure Hydrogen for On-site Applications	28.12.2021	27.12.2024	Chemical	Dr. Rajesh Kumar Upadhyay	SERB	42,57,260.00	R&D/IIT(BHU) Varanasi SERB/ChE/21-22/03/303
23	Cyber security of critical infrastructure: National Level Medical Grid System	29.12.2021	28.12.2024	Biomedical	Prof. Prasun K. Roy	DST-TIH, IIT-Kanpur (Ihub Ntiyac Foundation)	30,67,000.00	R&D/SA/DST-TIH/BME/21-22/03/307
24	Novel integrated engineering approach for effective carbon dioxide removal using biphasic amine blends for coal-based thermal power plant	29.12.2021	28.12.2024	Chemical	Dr. Monoj Kumar Mondal	SERB	21,67,240.00	R&D/IIT(BHU) Varanasi SERB/ChE/21-22/04/308
25	Design and development of Cybersecured Smart Power interface for Energy-Local Area Network (ELAN)	13.01.2022	12.01.2025	Electrical	Dr. Santosh Kumar Singh	IHUB-NTIHAC Foundation, IIT Kanpur	14,64,000.00	R&D/SA/IHUB (IIT Kanpur)/EE/21-22/06/312
26	Development of a multiplex portable spinning disc for effective monitoring of women's health during different stages of pregnancy	30.12.2021	19.12.2024	Mechanical	Dr. Arnab Sarkar	DST	72,94,173.00	R&D/PFMS/SA/DST/Mech/21-22/05/313

27	Design and development of Molecular hybrids on a multifunctional framework for regulating Cholinesterases, $\beta$ -secretase 1, Amyloid- $\beta$ , and Oxidative Stress Against Alzheimer's Disease	02.12.2021	01.12.2024	Pharmaceutical	Prof. Sushant Kumar Shrivastava	ICMR	26,80,895.00	R&D/SA/ICMR/Pharma/21-22/03/314
28	Complex of online and onsite lectures on materials for hydrogen generation by solar water splitting	05.01.2022	04.01.2026	Ceramic	Dr. Santanu Das	Norway Council of Education and Research, Norway	2,07,000.00	R&D/SA/NCER/Cer/21-22/04/316
29	Development of Cardiac Model for Prediction of Human Heart Failure using Noninvasive medical imaging and Computational Fluid Dynamic techniques	29.10.2021	10.11.2024	Biomedical	Dr. Sanjay Kumar Rai	ICMR	52,31,900.00	R&D/SA/ICMR/BME/21-22/04/320
30	Design and development of potential multifunctional molecular hybrid for the treatment of Alzheimer's disease	28.01.2022	27.01.2025	Pharmaceutical	Dr. S.K. Dr.vastava	SERB	28,28,600.00	R&D/IIT(BHU) Varanasi SERB/Pharma/21-22/05/323
31	3D Computational and experimental study on layer dynamics and prediction of critical power law scales in double-diffusive finger convection	28.01.2022	27.01.2025	Mechanical	Dr. Om Prakash Singh	SERB	49,30,992.00	R&D/IIT(BHU) Varanasi SERB/Mech/06/326
32	Development of Hand Telerehabilitation Platform for Diagnostic and Therapeutic Purposes in Physiotherapy	27.01.2022	26.01.2025	Electronics	Dr. Kishor P. Sarawadekar	SERB	21,28,764.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/21-22/05/329
33	Metasurface-based Sensor devices for mm-wave and sub-terahertz Applications	28.01.2022	20.01.2025	Electronics	Dr. Somak Bhattacharyya	SERB	56,21,264.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/21-22/06/330
34	Exploring Anti-ineffective potential of Panchagavya : Metabolomics and Proteomics Approaches	20.01.2022	02.01.2025	Pharmaceutical	Dr. Shreyans Kumar Jain	DST	65,43,378.00	R&D/PFMS/SA/DST/Pharma/21-22/07/333

35	Fabrication of low power consuming inverted near-infrared AMOLED	17.03.2021	16.09.2024(extended)	SMST	Dr. Bhola Nath Pal	DST	47,82,000.00	R&D/SA/DST/SMST/21-22/02/334
36	Development of toolkit for prediction of blood brain-barrier permeability using deep learning to expedite CNS drug discovery	23.02.2022	17.02.2025	Pharmaceutical	Dr. Rajnish	SERB- Matrics	6,60,000.00	R&D/IIT(BHU) VARANASI(SERB)/Pharma/21-22/08/335
37	Design and Validation of field deployable miniaturized Nano-Bio-Sensing System for Detection of the Parasitic liver fluke fasciola gigantica	22.02.2022	3 years	Biochemical	Dr. Pranjal Chandra	ICMR	45,37,996.00	R&D/SA/ICMR/BCE/21-22/05/336
38	Study and analysis of interfacial cracks in composite media	17.02.2022	15.02.2025	Mathematical	Dr. Subir Das	DAE	2,30,500.00	R&D/SA/DAE/Math/21-22/01/338
39	Development of energy efficient and compact electric drive train for fuel cell electric vehicle	18.02.2022	23.02.2025	Electrical	Dr. Kalpana Chaudhary	SERB	49,17,264.00	R&D/IIT(BHU) Varanasi SERB/EE/21-22/08/340
40	Pseudo-differential operators in partial differential equations, distribution and machine learning?	18.02.2022	17.02.2025	Mathematical	Dr. Santosh K. Upadhyay	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Math/21-22/02/341
41	Analytical study of hydrodynamic theory of wet active fluid	18.02.2022	17.02.2025	Physics	Dr. Shradha Mishra	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Phy/21-22/04/342
42	Design and Development of High Gain, Wide Bandwidth Beam Steered Reconfigurable Reflectarray Antennas for 5Gmm Wave Applications	05.03.2022	03.03.2025	Electronics	Dr. Manoj Kumar Meshram	SERB	51,26,231.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/21-22/07/344
43	Experimental study of anisotropy in nuclear charge and current distribution that results in interplay of electric and magnetic rotation in Xe nuclei	07.03.2022	06.03.2025	Physics	Dr. Somnath Nag	SERB	16,74,200.00	R&D/IIT(BHU) Varanasi SERB/Phy/21-22/05/345

44	Design and Development of Composition engineered toxic free organic inorganic Perovskite Quantum Dots Based Flexible Spectrum Tunable Photodetectors	05.03.2022	01.03.2025	Electronics	Dr. Satyabrata Jit	SERB	42,90,234.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/21-22/08/346
45	Towards alkaline aqueous battery and fuel cell application: Synthesis, kinetics and Operando spectroelectrochemical studies of mixed metal selenide and polypyrrole composites as potential oxygen electrocatalysts	07.03.2022	06.03.2025	Chemistry	Dr. (Mrs.) Manisha Malviya	SERB	32,06,764.00	R&D/IIT(BHU)VaranasiSERB/Chy/21-22/04/347
46	Reliability evaluation and performance enhancement of grid integrated wind-solar-EV hybrid renewable energy systems	05.03.2022	04.03.2025	Electrical	Dr. Ram Khelawan Saket	SERB	41,36,264.00	R&D/IIT(BHU) Varanasi SERB/EE/21-22/09/348
47	Optimal transport derivations in regularized wasserstein space for non-linear & linear transformations of deep neural networks	18.02.2022	17.02.2025	Computer	Dr. Tanimia Dutta	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/CSE/04/349
48	Active polar flock in quasi tow-dimensional geometry: role of confinement and boundary condition	08.03.2022	07.03.2025	Physics	Dr. Shradha Mishra	SERB	28,49,240.00	R&D/IIT(BHU) Varanasi SERB/Phy/21-22/06/350
49	Study of quantum chaos and multipartite entanglement using quantum circuits	10.03.2022	09.03.2025	Physics	Dr. Sunil Kumar Mishra	SERB	21,55,439.00	R&D/SA/SERB/Phy/07/351
50	Multifunctional Nanostructured Mn/Fe doped CeCro3 for Photocatalyst and Magnetic Switching	10.03.2022	09.03.2025	SMST	Dr. (Mrs.) Chandana Rath	SERB	48,56,764.00	R&D/IIT(BHU)VARANASI(SERB)/SMST/21-22/03/352
51	Tailoring properties by altering long and short-range structures in eco-friendly, Pb-free ferroelectric perovskite oxides for energy harvesting	10.03.2022	09.03.2025	Physics	Dr. Saurabh Tripathi	SERB	18,53,500.00	R&D/SA/SERB/Phy/08/353

52	Development of Laboratory Scale Bio-Grout Technology for Landslide Mitigation	10.03.2022	09.03.2025	Mining	Dr. Amit Kumar Verma	SERB	32,95,380.00	R&D/SA/SERB/Min/21-22/03/355
53	Language Communicator Tool for End Users	09.03.2022	08.03.2025	Humanistic	Dr. Sukhada	MeitY	63,89,257.00	R&D/PF/MS/SA/MeitY/Humanities/21-22/02/356
54	Development of prototype of early warning systems on impending goaf for underground coal mining.	24.02.2022	27.02.2025	Mining	Dr. Ashok Jaiswal	SERB	36,91,600.00	R&D/IIT(BHU)VaranasiSERB/Min/21-22/04/357
55	Investigation of Anomalous Nernst Effect in Shape Memory Heusler Alloys	14.03.2022	13.03.2025	SMST	Dr. Sanjay Singh	SERB	68,42,000.00	R&D.IIT(BHU)VaranasiSERB/SMST/21-22/04/358
56	Development of industrial waste as mold material for sustainable development of developing countries	15.03.2022	14.03.2025	Metallurgical	Dr. Jayant Kumar Singh	SERB	27,19,200.00	R&D/SA/SERB/Met/21-22/08/359
57	Wavelets Adaptive Schemes for Singular Integral Equations	16.02.2022	20.02.2025	Mathematical	Dr. Vineet Kumar Singh	SERB	6,60,000.00	R&D/IIT(BHU)VaranasiSERB/Math/21-22/03/360
58	On Developing Polynomial-time Interior-Point Methods for Robust Multiobjective Convex Optimization Problems	29.03.2022	28.03.2025	Mathematical	Dr. Debdas Ghosh	SERB	6,60,000.00	R&D/IIT(BHU)VaranasiSERB/Math/21-22/04/361
59	Electrolytic capacitor less six pulse DC link photovoltaic system connected to grid	30.03.2022	30.09.2024 (extended)	Electrical	Dr. Vivek Nandan Lal	CPRI	45,44,000.00	R&D/SA/CPRI/EE/22-23/02/365
60	Development of Cryptographically efficient lightweight MDS matrices and its extension to code-based PQC	12.04.2022	11.04.2025	Mathematical	Dr. Ashok Ji Gupta	DRDO	23,10,000.00	R&D/SA/DRDO/Math/22-23/01/367
61	Development of advanced Medical Textiles	04.05.2022	03.05.2027	SMST	Dr. Chandan Upadhyay	Farmanex International Pvt. Ltd.	3,00,000.00	R&D/SA/Farmanex/SMST/22-23/02/371
62	Correlation studies of copper artifacts (2500-200 BCE) from Varanasi region and copper mining and smelting in tribal areas of Singhbhum	02.04.2022	31.09.2024 (extended)	SMST	Dr. Chandan Upadhyay	AICTE, IKS	15,24,000.00	R&D/SA/SMST/IKS/22-23/03/372
63	TIFAC-MSME Program	12.04.2022	11.04.2024	Chemical	Dr. (Mrs.) Bhawna Verma	TIFAC	20,00,000.00	R&D/SA/TIFAC/ChE/22-23/01/373

64	On the augmentation of heat transfer from external downward facing Convex surface of Calendria vessel with nano-texturing	27.05.2022	26.05.2025	Mechanical	Dr. Pradumna Ghosh	BRNS	36,49,040.00	R&D/SA/BRNS/Mech/22-23/01/374
65	Study of some Two dimensional fractional order nonlinear transport phenomena problems in porous media	08.06.2022	07.06.2025	Mathematical	Dr. Subir Das	BRNS	14,84,800.00	R&D/SA/BRNS/Math/22-23/02/376
66	Developing novel therapeutic strategies for mitigating antimicrobial resistance	15.06.2022	14.06.2025	Computer	Dr. Sanjay Kumar Singh	ICAR	20,51,994.00	R&D/SA/ICAR/CSE/22-23/01/377
67	Effects of ceria support morphology for the synthesis of bimetallic catalysts for Nox reduction through H2-SCR	20.06.2022	27.06.2025	Chemical		SERB	52,47,264.00	R&D/IIT(BHU) Varanasi SERB/ChE/22-23/02/378
68	Crack modulation in dried colloidal films by soft additives	13.07.2022	13.07.2025	Chemical	Dr. Udit Uday Ghosh	SERB	46,86,264.00	R&D/IIT(BHU) Varanasi SERB/ChE/22-23/03/379
69	Blowoff Dynamics of Afterburner Flame	13.04.2022	12.04.2025	Mechanical	Dr. Anubhav Sinha	DRDO (AR&DB)	98,90,000.00	R&D/SA/DRDO/Mech/22-23/03/381
70	Effect of composition and microstructural alteration on constant and dynamic loading response of Al-Mg-Si alloys for electric vehicle application	28.09.2022	27.09.2024	SMST	Dr. Nikhil Kumar	SERB	33,05,500.00	R&D/IIT(BHU)VARANASI(SERB)/SMST/22-23/04/382
71	Development of stable and tethered Os(II)-based catalysts for reductive stress mediated photo-catalytic anticancer activity	26.09.2022	25.09.2024	Chemistry	Dr. Samya Banerjee	SERB	29,39,877.00	R&D/IIT(BHU)VARANASI(SERB)/CHY/22-23/03/383
72	Novel observations and modelling of the heating and dynamical plasma processes in the localized solar atmosphere	10.09.2022	15.09.2025	Physics	Dr. Abhishek K. Srivastava	ISRO	28,03,520.00	R&D/SA/ISRO/Phy/22-23/02/385
73	Development of Variable data rate CCSDS compliant direct digital demodulator	16.09.2022	15.09.2024	Electronics	Dr. Kishor P. Sarawadekar	ISRO	24,52,920.00	R&D/SA/ISRO/ECE/22-23/01/386



74	Development of wearable internet of medical things for continous health monitoring of astronauts	16.09.2022	15.09.2025	Electronics	Dr. Priya Ranjan Muduli	ISRO	26,09,560.00	R&D/SA/ISRO/ECE/22-23/02/387
75	Development of algorithms for water quality monitoring using ground instrumentation and optical sensors onboard unmanned airborne vehicle and satellite data	16.09.2022	15.09.2025	Civil	Dr. Shishir Gaur	ISRO	25,18,520.00	R&D/SA/ISRO/Civil/22-23/01/388
76	Development of graphene/CNT FET based sensors for space applications	16.09.2022	15.09.2024	Electronics	Dr. Shivam Verma	ISRO	29,62,920.00	R&D/SA/ISRO/ECE/22-23/03/389
77	Metasurface-based various components for applications in microwave and beyond	16.09.2022	15.09.2024	Electronics	Dr. Somak Bhattacharyya	ISRO	25,33,520.00	R&D/SA/ISRO/ECE/22-23/04/390
78	Design and development of reconfigurable reflect array antenna at X-band	16.09.2022	15.09.2024	Electronics	Dr. Manoj Kumar Meshram	ISRO	27,77,920.00	R&D/SA/ISRO/ECE/22-23/05/391
79	Development of microwave scattering algorithms for retrieval of crop biophysical parameters and soil moisture using polarimetrics SAR satellite data	16.09.2022	15.09.2025	Physics	Dr. Rajendra Prasad	ISRO	30,73,520.00	R&D/SA/ISRO/Phy/22-23/03/392
80	Designing metallic glass composites with immiscible elements as alloying elements for improved plasticity	1.10.2022	10.10.2024	Metallurgical	Dr. Sree Harsha Nandan	SERB	33,10,000.00	R&D/IIT(BHU) Varanasi SERB/Met/22-23/01/393
81	Design and development of kinetically stable electrolytes for next-gen Li-ion batteries (ElectroLilon)	11.10.2022	10.10.2024	Chemical	Dr. Abir Ghosh	SERB	29,40,340.00	R&D/IIT(BHU) Varanasi SERB/ChE/22-23/05/394
82	Thermo-catalytic conversion of carbon dioxide into ethanol and higher alcohols	11.10.2022	10.10.2024	Chemical	Dr. Sanjay Katheria	SERB	33,09,540.00	R&D/IIT(BHU) Varanasi SERB/ChE/22-23/06/395

83	Development and processing of magnetocaloric thin sheets for enhanced thermomagnetic energy harvesting applications	13.10.2022	12.10.2024	Metallurgical	Dr. Deepak K	SERB	31,99,900.00	R&D/IIT(BHU) Varanasi SERB/Met/22-23/03/397
84	A Novel, Rapid, High-Throughput Characterization of Microbiome Dynamics through Cytomics and Machine Learning	05.11.2022	04.11.2024	Biochemical	Dr. Abhishek Suresh Dhoble	SERB	28,61,436.00	R&D/IIT(BHU)Varanasi(SERB)/BCE/22-23/01/398
85	Development of an inexpensive high-fidelity technique for the prediction of failure capacity of thin shell structures	09.11.2022	08.11.2024	Civil	Dr. Kshitij Kumar Yadav	SERB	24,17,840.00	R&D/IIT(BHU)Varanasi(SERB)/Civil/22-23/02/399
86	Experimental investigation of stability limits, NOx emissions and blowout phenomenon of ammonia - hydrogen-nitrogen air mixtures in a non-premixed swirl combustor	10.11.2022	09.11.2024	Mechanical	Dr. R. Santhosh	SERB	31,72,670.00	R&D/IIT(BHU)Varanasi(SERB)/Mech/22-23/04/400
87	Design and analysis of adaptive tow-steered laminates	10.11.2022	09.11.2024	Civil	Dr. Ayan Halder	SERB	31,86,590.00	R&D/IIT(BHU)Varanasi(SERB)/Civil/22-23/03/401
88	Investigation of processing techniques for the development of PEEK and Thermoplastic prepreg technologies	29.11.2022	30.05.25	SMST	Dr. Pralay Maiti	DRDO	88,47,860.00	R&D/SA/DRDO/SMST/22-23/05/403
89	Design and development of machine learning based methods for plant disease detection	21.10.2022	30.11.2025	Computer	Dr. Ravi Shankar Singh	UPCST	10,44,000.00	R&D/SA/UPCST/CSE/22-23/02/404
90	Development of high-strength vanadium microalloyed steels for heavy gauge plate	15.12.2022	14.12.2025	Metallurgical	Dr. Sudipta Patra	R&D/SA/Vanitec/ Met/22-23/04/405	92,96,854.00	R&D/SA/Vanitee/Met/22-23/04/405
91	Graphite Aerosol studies in High Temperature Aerosol Facility for nuclear reactor applications	17.12.2022	16.12.2025	Mechanical	Dr. Prashant Shukla	BRNS	40,50,800.00	R&D/SA/BRNS/Mech/22-23/05/406

92	Development of an Intelligent Internet of Things (IIoT)-enabled Portable Device for Early Diagnosis of Foot and Mouth disease of Dairy Cows	09.12.2022	08.12.2025	Computer	Dr. Prasenjit Chanak	SERB	48,38,064.00	R&D/IIT(BHU)Varanasi(SERB)/CSE/22-23/03/407
93	Study of composition and thermo-mechanical processing of 4-8% Cu Al alloy for fabricating the fuselage skins and frmaes for aerospace application	29.08.2022	20.12.2025	SMST	Dr. Nikhil Kumar	CST-UP	10,92,000.00	R&D/SA/CST-UP/SMST/22-23/06/408
94	Smart DC charging with integrated digital platform for CPOs and Power distribution companies	23.12.2022	22.01.2025	Electrical	Dr. Santosh Kumar Singh	MEITY	35,52,000.00	R&D/SA/MEITY/EE/22-23/05/409
95	Study on therapeutic and preventive efficacies of linoleic acid in hamster model of vasceral leishmaniasis	16.12.22	15.12.2024	Pharmaceutical	Dr. Vinod Tiwari	ICMR	8,36,879.00	R&D/SA/ICMR/Pharma/22-23/01/410
96	Design and development of implantable and ingestible antennas for biomedical applications	26.10.22	25.10.2025	Electronics	Dr. Manoj Kumar Meshram	SERB	24,87,760.00	R&D/IIT(BHU)Varanasi(SERB)/ECE/22-23/06/411
97	L-functions associated to modular forms and non-vanishing of poincare series	12.12.2022	11.12.2024	Mathematical	Dr. Abhash Kumar Jha	SERB	14,71,734.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/03/412
98	Catalyst development for reforming of biomass tar model compounds for hydrogen and syngas production	23.11.2022	22.11.2024	Chemical	Dr. Rohit Kumar	SERB	30,44,980.00	R&D/IIT(BHU) Varanasi SERB/ChE/22-23/07/413
99	Nanlocal elliptic equations with critical growth nonlinearities	09.01.2023	08.01.2025	Mathematical	Dr. Divya Goel	SERB	14,71,294.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/04/414
100	A numerical study of some non-classical diffusion/heat equaitons with free boundaries	09.01.2023	08.01.2026	Mathematical	Dr. Rajeev	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/05/415

101	Algorithms with provable guarantees for dynamic social networks	07.01.2023	06.01.2026	Computer	Dr. Lakshmanan Kailasam	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/CSE/22-23/04/416
102	Complete utilization of banana from farm till its disposal: A step towards the agricultural circular economy for the growth of agriculture and farmers in UP	06.01.2023	05.01.2026	Biochemical	Dr. Vishal Mishra	UPCST	11,94,000.00	R&D/SA/CST-UP/BCE/22-23/02/417
103	Investigation of size effects on vibration and thermoelastic damping in nano-electro-machanical systems of piezoelectric materials	09.01.2023	08.01.2026	Mathematical	Dr. (Mrs) Santwana Mukhopadhyay	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/06/418
104	Adaptive computational approach for riesz fractional advection dispersion wave equations	09.01.2023	12.01.2026	Mathematical	Dr. Vineet Kumar Singh	SERB	21,67,264.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/07/419
105	Isoperimetric bounds and obstacle placement problems for mixed steklov-Dirichlet eigenvalues on Riemannian manifolds	02.01.2023	02.01.2025	Mathematical	Dr. Sheela Verma	SERB	14,71,624.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/08/420
106	Certain space of cusp forms spanned by quotients and application	18.01.2023	17.01.2026	Mathematical	Dr. Abhash Kumar Jha	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Math/22-23/09/421
107	Metabolic engineering of rapid growing cyanobacteria for farnesene production and its scaleup studies	18.01.2023	17.01.2026	Biochemical	Dr. Sanjay kumar	SERB	35,09,240.00	R&D/IIT(BHU)Varanasi(SERB)/BCE/22-23/03/422
108	Proof of concept of developing in-cell reductive stress by Ir(III) transfer hydrogenation catalysts	20.01.2023	19.01.2026	Chemistry	Dr. Samya Banerjee	BRNS	21,82,050.00	R&D/SA/BRNS/Chy/22-23/04/423
109	Artificial intelligence & IoT based smart vet ecosystem for animal health patient care & precision livestock farming	11.01.2023	10.01.2026	Computer	Dr. Sanjay Kumar Singh	ICAR	59,44,645.00	R&D/SA/ICAR/CSE/22-23/05/424

110	Novel and efficient hybrid material of CsPbBr <sub>3</sub> , Nanocrystals and organic complexes for multi-stimuli and dynamic optical encryption and decryption	19.01.2023	23.01.2026	Physics	Dr. Sunil Kumar Singh	SERB	21,01,000.00	R&D/IIT(BHU) Varanasi SERB/Phy/22-23/04/425
111	Development of rare-earth-free metal vanadate phosphors for latent fingerprint detection	25.01.2023	24.01.2026	Physics	Dr. Praveen Chandra Pandey	SERB	24,31,154.00	R&D/IIT(BHU) Varanasi SERB/Phy/22-23/05/426
112	Hybrid Solar Wind Driven Combined Heat and Power System using Organic Rankine Cycle. (P.I.D.-1747)	04.01.2023	03.01.2026	Mechanical	Dr. Arnab Sarkar	CST-UP	9,42,000.00	R&D/SA/CST-UP/Mech/22-23/06/428
113	A new paradigm for flavour problems	20.01.2023	17.11.2025	Physics	Dr. Gauhar Abbas	UPCST	10,44,000.00	R&D/SA/UPCST/Phy/22-23/06/429
114	Inverse estimation of uncertainty in intact rocks properties at meso-scale using full-field strain measurements	24.01.2023	23.01.2025	Mining	Dr. Bhardwaj Pandit	SERB	32,46,520.00	R&D/IIT(BHU)VaranasiSERB/Mi n/22-23/05/430
115	Silicon carbide devices based high voltage gain converter with novel current-source gate driver for electric vehicle powertrain	07.02.2023	06.02.2026	Electrical	Dr. Santosh Kumar Singh	SERB	49,99,764.00	R&D/IIT(BHU) Varanasi SERB/EE/22-23/06/431
116	Development of peripherally acting Nanoformulation of opioids for the treatment of neuropathic pain	14.12.2022	13.12.2024	Pharmaceutical	Dr. Vinod Tiwari	CST-UP	7,80,000.00	R&D/SA/CST-UP/Pharma/22-23/02/432
117	DNN- Derived Innovative Flexible Frequency Selective Surfaces for Stealth and 5G Electromagnetic Shielding Applications	07.02.2023	06.02.2026	SMST	Dr. Ravi Panwar	SERB	32,56,264.00	R&D/IIT(BHU)Varanasi(SERB)/S MST/22-23/07/433
118	Development of nano bonded alumina magnesium borate refractory castable application for Indian petrochemical industry	10.02.2023	20.02.2026	Ceramic	Dr. Manas Ranjan Majhi	SERB	43,28,654.00	R&D/IIT(BHU)VaranasiSERB/Cer /22-23/05/434

119	Assessment of Safe Parting Thickness and Optimum Goaf Edge Support Requirement for Extraction of Pillars under Soft Cover	14.02.2023	13.02.2025	Mining	Dr. Sanjay K. Sharma	CMPDI	1,82,29,000.00	R&D/SA/CMPDI/Min/22-23/06/435
120	Design, development and microstructural engineering of ultra-strong maraging medium entropy alloys	13.02.2023	12.02.2026	Metallurgical	Dr. Praveen Sathiyamoorthi	SERB	41,58,000.00	R&D/IIT(BHU) Varanasi SERB/Met/22-23/05/436
121	Enhancement of detection capability of Pyroelectric detectors in Infrared (IR) and Terahertz (THz) region	31.01.2023	30.01.2026	Physics	Dr. Saurabh Tripathi	DRDO	94,00,300.00	R&D/SA/DRDO/Phy/22-23/07/437
122	Manufacturing of complex titanium assembly part for missile using fabrication, simulation, testing & prototyping studies	24.01.2023	23.07.2025	Mechanical	Dr. Santosh Kumar	DRDO	47,57,000.00	R&D/SA/DRDO/Mech/22-23/07/438
123	Pressure Assisted Flash Joining of Ceramic Materials	20.02.2023	19.02.2026	Ceramic	Dr. Mohammad Imteyaz Ahmad	SERB	45,91,400.00	R&D/IIT(BHU)VaranasiSERB/Cer/22-23/06/440
124	Cell laden 3-D bioprinted 2-dimensional (2-D) hydroxyapatite nanocrystals/alginate/collagen piezo-biocomposite scaffold for bone tissue engineering applications	17.02.2023	16.02.2026	Ceramic	Dr. Ashutosh Kumar Dubey	SERB	36,96,000.00	R&D/IIT(BHU)VaranasiSERB/Cer/22-23/07/441
125	Wafer-scale integration and interfacia engineering of 2D van der Waals superlattice for next-generation nano-scale devices	20.02.2023	01.03.2026	Ceramic	Dr. Santanu Das	SERB	38,87,571.00	R&D/IIT(BHU)VaranasiSERB/Cer/22-23/08/442
126	Nano-ion Chromatograph in Action - Sustainable and scalable quantum dots paves a Facile route for Rare Earth Ions Separation Through Advanced Hydrometallurgy	27.02.2023	26.02.2025	SMST	Dr. Pralay Maiti	Ministry of Mines	11,05,000.00	R&D/PFMS/SA/MoM/SMST/22-23/08/444

127	Assessment of Work Posture of Mine Equipment Operators in Relation to Whole-Body Vibration Exposure-Using RULA, REBA and Human Modelling Approach	20.02.2023	19.02.2026	Mining	Dr. Sanjay Kumar Palei	SERB	38,29,760.00	R&D/IIT(BHU)VaranasiSERB/Min/22-23/06/445
128	Center for development of drone related technologies	03.03.2023	02.03.2025	Electrical	Dr. Shyam Kamal	I-DAPT, IIT(BHU)	1,30,00,000.00	R&D/SA/I-DAPT IIT(BHU)/EE/22-23/08/448
129	Production, characterization and combustion studies on sustainable aviation fuel	10.03.2023	09.03.2026	Chemical	Dr. Jyoti Prasad Chakraborty	SERB	32,34,264.00	R&D/IIT(BHU) Varanasi SERB/ChE/22-23/08/449
130	Preparation & characterization of natural products derived self-surface functionalized carbon dots for oral cancer theranostics	07.12.2022	06.12.2025	Pharmaceutical	Dr. Alakh Niranjana Sahu	CST-UP	11,94,000.00	R&D/SA/CST-UP/Pharma/22-23/03/450
131	Animal studies to establish the efficacy of surface polarized sodium potassium niobates for orthopedic implant application	23.02.2023	26.12.2025	Pharmaceutical	Dr. Sunil Kumar Mishra	CST-UP	10,92,000.00	R&D/SA/CST-UP/Pharma/22-23/04/451
132	A data driven toolkit for enabling multimodal freight transportation in India and Austria	27.03.2023	26.03.2025	Civil	Dr. Agnivesh P	DST	7,12,000.00	R&D/PFMS/DST/Civil/22-23/06/452
133	Revisiting traditional Indian agriculture practices against climate change vulnerabilities using machine learning techniques	29.03.2023	26.03.2025	Computer	Dr. Ruchir Gupta	DST	25,25,578.00	R&D/SA/1819/DST/CSE/22-23/08/455
134	Development of disaster response system for collecting & disseminating information through social media text processing	20.03.2023	24.01.2026	Computer	Dr. Sukomal Pal	UPCST	8,94,000.00	R&D/SA/UPCST/CSE/22-23/09/457
135	Development of a lightweight Android mobile software powered by Deep Learning for identification of plant leaf disease	30.03.2023	29.03.2025	Computer		DST	35,90,133.00	R&D/C.N.A/1819/DST/CSE/22-23/10/485
136	Higgs physics within and beyond the standard model	10.03.2023	12.03.2026	Physics	Dr. Gauhar Abbas	SERB	11,77,000.00	R&D/IIT(BHU) Varanasi SERB/Phy/23-24/01/459

137	Averera Project	03.03.2023	02.03.2025	Mechanical	Dr. Amitesh Kumar	I-DAPT, IIT(BHU)	29,99,480.00	R&D/SA/I-DAPT IIT(BHU)/Mech/23-24/01/460
138	Development of exosome-based drug delivery system for naturally inspired novel multifunctional Neuroprotective molecules and their biological evaluation in Alzheimer's disease models	16.03.2023	14.03.2026	Pharmaceutical	Dr. Gyan Prakash Modi	ICMR	22,26,949.00	R&D/SA/ICMR/Pharma/23-24/01/461
139	Knowledge partnership for digital metrology	14.03.2023	13.03.2028	Electronics	Dr. Naveen Singh Rajput	Ministry of Consumer Affairs (MoCA)	25,38,148.00	R&D/3048(P)/SA/MoCA/ECE/23-24/01/462
140	Utilization of low grade coal for production of high quality graphene and carbon nanoparticles for energy storage	09.02.2023	08.02.2025	Chemistry	Dr. Yogesh Chandra Sharma	CMPDI	86,61,000.00	R&D/SA/CMPDI/Chy/23-24/01/463
141	A novel meso micro scale coupling approach for wind resource assessment	20.04.2023	19.02.2025	Mechanical	Dr. Arnab Sarkar	GE-SERB	37,26,560.00	R&D/GE-SERB(P)/Mech/23-24/02/464/SA - Part 1
142	Design and development of antenna for surface acoustic wave (SAW) wireless temperature sensor	24.03.2023	23.03.2025	Electronics	Dr. Manoj Kumar Meshram	DRDO	31,02,000.00	R&D/SA/DRDO/ECE/23-24/02/465
143	Instability machanism of magnetohydrodynamic non-isothermal annular poiseuille flow: A numerical study	28.04.2023	27.04.2026	Mathematical	Dr. Manish Kumar Khandelwal	SERB	6,60,000.00	R&D/IIT(BHU) Varanasi SERB/Math/23-24/01/466
144	Surface modification of porous electrodes for energy storage systems	12.05.2023	11.05.2026	Physics	Dr. Prabhakar Singh	gita-dst	33,90,252.00	R&D/SA/DST/Phy/23-24/02/467
145	Synthesis of movable monostatic radar mapping system for soil moisture retrieval	25.05.2023	24.05.2025	Physics	Dr. Rajendra Prasad	DST	27,53,849.00	R&D/C.N.A/1819/DST/Phy/23-24/03/468
146	Exploration of Indian Clays for the development of functional materials through surface modification	03.05.2023	10.05.2026	SMST	Dr. Pralay Maiti	SERB	19,95,400.00	R&D/IIT(BHU)VARANASI(SERB)/ SMST/23-24/01/469



147	Studies on development of low global warming potential (GWP) compounds and their blends as alternatives for common refrigerants and examination of their ozone depletion potential	10.04.2023	09.04.2026	Chemistry	Dr. Yogesh Chandra Sharma	Ministry of Environment, Forest and Climate Change, New Delhi	50,00,000.00	R&D/SA/MoEn/Chy/23-24/02/471
148	Hydrological experiment and water fluxes modelling for SWOT and sentinel - 3A/3B missions: Ganga River	16.06.2023	15.06.2024	Civil	Dr. Shishir Gaur	SAC, ISRO Ahmedabad	10,34,000.00	R&D/SA/SAC-ISRO/Civil/23-24/01/473
149	Engineering cell-based hydrogel patch for Diabetic Wound Repair	27.06.2023	26.06.2024	Biomedical	Dr. Sudip Mukherjee	Royal Society, UK	3,93,622.96	R&D/SA/Royal Society/BME/23-24/01/474
150	High solids anaerobic digestion for effective garbage disposal with forward linkage to power generation	13.07.2023	12.07.2026	Biochemical	Dr. Abhishek Suresh Dhoble	Ministry of Education- SAP	30,40,000.00	R&D/IIT BHU UBA/MoE-SAP/BCE/23-24/02/475
151	Targeting CDK9 by coumarin based inhibitors: Design, Preparation and Biological Evaluation	14.07.2023	13.07.2026	Pharmaceutical	Dr. Shreyans Kumar Jain	SERB	25,79,240.00	R&D/IIT(BHU)VARANASI/Pharma/23-24/02/476
152	Development of EEG-based biometric system to identify friend and foe in defense application	07.07.2023	06.07.2025	Biomedical	Dr. A.R. Jac Fredo	Life Science Research Board, DRDO	56,94,040.00	R&D/SA/DRDO/BME/23-24/02/477
153	Structure-property correlation in creep-resistant squeeze-cast Mg-Al-Ca-Mn alloy-based nonocomposites	18.07.2023	17.07.2026	Metallurgical	Dr. Ashok Kumar Mondal	SERB	20,73,500.00	R&D/IIT(BHU) Varanasi SERB/Met/23-24/01/478
154	Transcriptome analysis of Cancer cell line treated with Gedunin and 2INC000045971961 as novel Bruton's tyrosine kinase (BTK) inhibitor	27.07.2023	26.07.2026	Biochemical	Dr. (Mrs.) Abha Mishra	DRDO	58,67,175.00	R&D/SA/DRDO/BCE/23-24/03/479
155	Wavelets Adaptive Schemes for Tumor Growth Model	03.04.2023	02.04.2026	Mathematical	Dr. Vineet Kumar Singh	UPCST	11,44,000.00	R&D/SA/UPCST/Math/23-24/02/480

156	Application of sthapatya veda and vedic architecture in creating healthy indoor environment - study are Varanasi	25.08.2023	24.08.2025	Architecture	Dr. Aaditya Pratap Sanyal	IKS, AICTE	10,00,000.00	R&D/C.N.A/3921/IKS/Arch/23-24/01/481
157	Study of solid hydrodynamics in an elevated temperature gas-solid fluidized bed with secondary gas injection through side wall pneumatic nozzels	31.08.2023	30.08.2026	Chemical	Dr. Rajesh Kumar Upadhyay	BRNS	86,36,000.00	R&D/SA/BRNS/ChE/23-24/01/482
158	Investigation of Cell-of-origin of TNBCs and Luminal types of Breast Cancer and Development of targeted therapy.	20.07.2023	19.08.2028	Biomedical	Dr. Brijesh Kumar	DBT	52,50,000.00	R&D/SA/DBT/BME/23-24/03/483
159	Development of a 10 kW membrane reformer prototype for production of fuel cell grade green hydrogen for power generation	29.09.2023	28.09.2025	Chemical	Dr. Rajesh Kumar Upadhyay	DST	3,96,01,786.00	R&D/CNA/1819/DST/ChE/23-24/02/484
160	Novel Polymeric Nano medicine for Cancer therapy Based on the Bio-informatics and Data analysis	25.09.2023	24.09.2025	Biomedical	Dr. Pradip Paik	I-DAPT, IIT(BHU)	21,70,000.00	R&D/SA/I-DAPT IIT(BHU)/BME/23-24/04/485
161	Design, synthesis and biological evaluation of mechanism-based novel theranostic agents for Alzheimer's disease	07.09.2023	06.09.2026	Pharmaceutical	Dr. Gyan Prakash Modi	SERB	33,22,240.00	R&D/IIT(BHU)VARANASI(SERB)/Pharma/23-24/03/486
162	Development of Implantable Engineered-Cells-Nano-Polymer-hydrogel based immune therapeutic tools for pancreatic cancer	03.10.2023	02.10.2026	Biomedical	Dr. Pradip Paik	STARS-MoE	67,60,000.00	R&D/CNA/3668/MoE-STARS/BME/23-24/05/487
163	Solution spray processed SnO2 based Electron transport layer (ETL) for perovskite solar cell (PSC)	19.10.2023	18.10.2025	Ceramic	Dr. Mohammad Imteyaz Ahmad	CSIR		R&D/CNA/1827/CSIR/CER/23-24/01/488

164	Privacy-aware Federated Learning based Security Solutions for Beyond 5G Networks	09.10.2023	08.10.2025	Computer	Dr. Vignesh Sivaraman	SERB	22,47,340.00	R&D/IIT(BHU)VARANASI(SERB)/CSE/23-24/01/489
165	Development of implantable hydrogels containing engineered cells secreting glucocerebrosidase for long-term treatment of Gaucher disease type 1	27.10.2023	26.10.2026	Biomedical	Dr. Sudip Mukherjee	ICMR	32,64,500.00	R&D/SA/ICMR/BME/23-24/06/490
166	Development of enzyme enhancement treatment for neuronopathic Gaucher disease	27.10.2023	26.10.2026	Pharmaceutical	Dr. Sairam Krishnamurthy	ICMR	70,25,043.00	R&D/SA/ICMR/Pharma/23-24/04/491
167	Synergetic Metal/Lewis base-catalyzed asymmetric annulations	16.10.2023	15.10.2025	Chemistry	Dr. Rakesh Kumar Saunthwal	SERB	31,46,000.00	R&D/IIT(BHU)Varanasi(SERB)/C/23-24/03/492
168	Development of catalytic integrated air-stream gasifier for the gasification of agriculture waste and valorization of gasified fly ash on concrete work	11.09.2023	10.09.2026	Mechanical	Dr. Jeevan Vachan Tirkey	DST	40,85,889.00	R&D/C.N.A./1819/Mech/23-24/03/493
169	A pilot project on LoRaWAN-enabled smart building at IIT(BHU)	07.11.2023	06.11.2024	Computer	Dr. Hari Prabhat Gupta	I-DAPT, IIT(BHU)	11,00,000.00	R&D/SA/I-DAPT IIT(BHU)/CSE/23-24/02/494
170	Learning assisted phase sensor for rapid screening of cells and automated decision making	03.11.2023	31.03.2025	Physics	Dr. Rakesh Kumar Singh	I-DAPT, IIT(BHU)	19,80,000.00	R&D/SA/I-DAPT IIT(BHU)/Phy/23-24/04/495
171	Development of Integrated Low-Cost Identification and Alert system for overloading, over speeding, and lane discipline violation of vehicles operating on Expressways	15.11.2023	14.11.2025	Civil	Dr. Brind Kumar	I-DAPT, IIT(BHU)	17,88,000.00	R&D/SA/I-DAPT IIT(BHU)/Civil/23-24/02/496
172	Socio economic impact of PM Awas Yojana (U) in Varanasi District	11.10.2023	10.03.2024	Architecture	Dr. Vishal Chetty	ICSSR	15,00,000.00	R&D/SA/ICSSR/APD/23-24/497

173	Development of stealth drones with camouflaging features for border surveillance using advanced designing and 4D printing	03.11.2023	02.11.2025	Mechanical	Dr. Pawan Sharma	I-DAPT, IIT(BHU)	19,96,500.00	R&D/SA/I-DAPTIIT(BHU)/Mech/23-24/04/498
174	Efficient Multiparty Computation	26.09.2023	25.09.2028	Computer	Dr. Obbattu Sai Lakshmi Bhavana	DST	700000 + Fellowship	R&D/CNA/1817/DST INSPIRE/CSE/23-24/03/499
175	Computational modelling and implementation of O2 Evolution and phase change of positive electrodes in Li-ion Batteries	08.11.2023	07.11.2024	Chemical	Dr. Abir Ghosh	Oorja Energy, Weedy Software Pvt. Ltd	1,90,300.00	R&D/SA/OEWS/ChE/23-24/03/500
176	Development of regenerative nanofibrous bioactive conduit for treatment of spinal cord injury	30.11.2023	29.11.2026	Pharmaceutical	Dr. Sairam Krishnamurthy	ICMR	98,41,584.00	R&D/SA/ICMR/Pharma/23-24/05/501
177	An experimental- numerical study of improved delamination toughness in polymer composite laminates through the incorporation of nano-graphene particles	27.12.2023	26.12.2025	Civil	Dr. Rosalin Sahoo	SPARC	67,19,998.00	R&D/C.N.A./3614/SPARC/Civil/23-24/03/502
178	Study of runs in multi-state trials	18.12.2023	17.12.2025	Mathematical	Dr. Amit Kumar	SERB	14,71,844.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/03/503
179	Mixed local-nonlocal double phase elliptic and parabolic problems	22.12.2023	21.12.2025	Mathematical	Dr. Rakesh Arora	SERB	14,71,844.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/04/504
180	Reconfigurable on board wired and wireless battery charger for electric vehicle	23.11.2023	22.11.2026	Electrical	Dr. Rajeev Kumar Singh	CST-UP	17,08,000.00	R&D/SA/CSTUP/EE/23-24/01/505
181	Demonstration of room-temperature electroluminescence from two-dimensional Semiconductor - Metal hybrid structures, towards the realization of nano-lasers	26.12.2023	25.12.2025	Electronics	Dr. Ankit Arora	SERB	31,42,810.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/23-24/03/506
182	Motives and algebro-geometric invariants of certain moduli spaces of connections	22.12.2023	21.12.2025	Mathematical	Dr. Anoop Singh	SERB	14,71,844.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/05/507

183	Development of new bioinspired catalysts based on Earth-Abundant transition metals and selenolate ligand for selective Hydrofunctionalization reactions	22.12.2023	21.12.2025	Chemistry	Dr. Saravanakumar Elangovan	SERB	30,63,376.00	R&D/IIT(BHU)VARANASI(SERB)/Chy/23-24/04/508
184	Single-Molecule signature of knot formation in proteins	29.12.2023	28.12.2025	Chemistry	Dr. Prabhat Tripathi	SERB	23,37,500.00	R&D/IIT(BHU)VARANASI(SERB)/Chy/23-24/05/509
185	Exploring naturally inspired piperine derivatives as multitarget directed ligands for the management of Alzheimer's disease	01.01.2024	31.12.2026	Pharmaceutical	Dr. (Mrs.) S. Hemalatha	SERB	46,03,214.00	R&D/IIT(BHU)VARANASI(SERB)/Pharma/23-24/06/510
186	Improving oxidative resistance of Carbo-graphite materials to be used in fabrication of mechanical seals for aero-engines	27.12.2023	26.12.2025	Mechanical	Dr. Rajnesh Tyagi	DRDO	47,17,300.00	R&D/SA/DRDO/Mech/23-24/05/511
187	Development of robust spin-photon hybrid quantum system for negative refraction	22.12.2023	21.12.2025	Physics	Dr. Biswanath Bhoi	SERB	31,90,000.00	R&D/IIT(BHU)VARANASI(SERB)/Phy/23-24/05/512
188	Exploring prospects of shared e-micro mobility in Rural India	08.12.2023	07.12.2024	Civil	Dr. Anshuman Sharma	THINK	2,11,444.00	R&D/SA/THINK/Civil/23-24/04/513
189	Experimental Investigation on machine learning aided cost-effective electromagnetic wave absorber coating using Microwave heat heterogenous Electronics waste	10.08.2023	09.08.2026	SMST	Dr. Ravi Panwar	CSIR	26,50,000.00	R&D/CNA/1827/CSIR/SMST/23-24/03/514
190	Understanding the molecular mechanism of anti-thyroid drug (propylthiouracil)- induced 'redox imbalance and epigenetic alteration	28.11.2023	27.11.2026	Biochemical	Dr. Aditya Kumar Padhi	CST-Odisha	3,50,000.00	R&D/SA/CSTODISHA/BCE/23-24/04/515
191	Engineering cell-based smart hydrogel patch for All-Round Rapid Wound Repair (ARRWR) in diabetic rats	29.12.2023	28.12.2024	Biomedical	Dr. Sudip Mukherjee	DBT	1,62,500.00	R&D/CNA/DBT/BME/23-24/07/516

192	Scale-up studies of isoprene production from genetically engineered cyanobacteria for biofuel application	05.01.2024	04.01.2026	Biochemical	Dr. Sanjay kumar	CST-UP	6,00,000.00	R&D/SA/CSTUP/BCE/23-24/05/517
193	Efficient Multiparty computation and applications	23.01.2024	22.01.2026	Computer	Dr. Obattu Sai Lakshmi Bhavana	SERB	20,43,840.00	R&D/IIT(BHU)VARANASI(SERB)/CSE/23-24/04/518
194	Photo-Triggered Catalyst-Free approach for C-Arylation and N-Arylation with Diazonium salt via Electron-Donor-Acceptor Complex (EDA)	23.01.2024	22.01.2027	Chemistry	Dr. (Mrs.) Sundaram Singh	SERB	46,86,264.00	R&D/IIT(BHU)VARANASI(SERB)/Chy/23-24/06/519
195	Microstructure and Crystallographic Texture dependence of cyclic deformation and corrosion behaviour in Extruded MG-AL-ZN-SN alloys	08.11.2023	07.11.2026	Metallurgical	Dr. Subhasis Sinha	CSIR	23,50,000.00	R&D/CNA/1827/CSIR/Met/23-24/02/520
196	Development of an Efficient and Portable Bridge Weigh-In-motion System for In-service condition Monitoring	19.01.2024	18.01.2026	Civil	Dr. Samim Mustafa	SERB	28,30,330.00	R&D/IIT(BHU)VARANASI(SERB)/Civil/23-24/05/521
197	Development of magnetic materials for spin seebeck energy harvesting	23.11.2023	22.11.2026	Physics	Dr. Biswanath Bhoi	CST-UP	12,86,000.00	R&D/SA/CSTUP/Phy/23-24/06/522
198	Reverse Engineering & high-throughput redesigning of double-y B-barrel core folded proteins: Comprehending their functional diversity for augmenting therapeutics	25.01.2024	24.01.2026	Biochemical	Dr. Aditya Kumar Padhi	SERB	26,51,000.00	R&D/IIT(BHU)VARANASI(SERB)/BCE/23-24/06/523
199	Looking for novel skyrmion materials for spintronic applications	14.12.2023	13.12.2026	Physics	Dr. Sandip Chatterjee	BRNS	27,80,000.00	R&D/SA/BRNS/Phy/23-24/07/524
200	An immunoprotective hydrogel-based implantable construct containing xenogeneic islets for type 1 diabetes therapy	1-25-2024	1-24-2026	Biomedical	Dr. Sudip Mukherjee	SERB		R&D/IIT(BHU)VARANASI(SERB)/BME/23-24/08/525

201	Design and Analysis of OTFS-based Multiuser Terahertz Communication for 6G and Beyond	31/1/2024	30/1/2027	Electronics	Dr. Sanjeev Sharma	SERB	4,39,528.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/23-24/04/526
202	Non smooth optimization and duality theory under variable dominance and interval uncertainty	29/01/2024	28/01/2027	Mathematical	Dr. Debdas Ghosh	SERB	27,47,492.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/06/527
203	Design and development of computer based intervention model for enhancing numerical of pupils of cope with mathematics curricula in primary school	8-2-2024	7-2-2027	Computer	Dr. Bidyut Kumar Patra	DST	50,03,760.00	R&D/CNA/1817/DST/CSE/23-24/05/528
204	Development and evaluation of Intra-nasal nanocarriers for the treatment of Alzheimer's disease	3-2-2024	2-2-2024	Pharmaceutical	Dr. (Mrs.) Ruchi Chawla	ICMR	60,96,084.00	R&D/SA/ICMR/Pharma/23-24/07/529
205	Exploiting synthetic lethality of type II NADH dehydrogenases for complete sterilization of mycobacterium tuberculosis	26/01/2024	25/01/2027	Pharmaceutical	Dr. Deepak Kumar	ICMR		R&D/SA/ICMR/Pharma/23-24/08/530
206	Developing calibration algorithm for HI intensity mapping with the Square Kilometer Array	12-2-2024	11-2-2027	Physics	Dr. Prasun Dutta	SERB	6,60,000.00	R&D/IIT(BHU)VARANASI(SERB)/Phy/23-24/08/531
207	Folic acid functionalized drug cocktail loaded lipid nano constructs for ameliorating the triple negative breast cancer therapy	14/2/2024	13/2/2027	Pharmaceutical	Dr. Ashish Kumar Agrawal	ICMR	32,63,584.00	R&D/SA/ICMR/Pharma/23-24/09/532
208	Multiepitope nanoglycoconjugate vaccine development against Mycobacterium tuberculosis	19/02/2024	18/2/2027	Pharmaceutical	Dr. Jairam Meena	SERB	35,03,500.00	R&D/IIT(BHU)VARANASI(SERB)/Pharma/23-24/10/533

209	Pharmacological exploration & repurposing of an antimalarial-drug for the treatment of triple-negative breast cancer using bovine milk exosomes as a delivery vehicle	5-3-2024	4-3-2027	Pharmaceutical	Dr. Ashish Kumar Agrawal	ICMR	50,63,584.00	R&D/SA/ICMR/Pharma/23-24/11/534
210	An experimental numerical approach to enhance the mechanical stability of nano graphene reinforced polymer composite in an insitu environment emphasizing temperature	28/02/2024	27/02/2027	Civil	Dr. Rosalin Sahoo	SERB	20,61,400.00	R&D/IIT(BHU)VARANASI(SERB)/Civil/23-24/06/535
211	Targeting cytochrome bd oxidase (cyt-bd) inhibitor for the development of rational drug combination for complete sterilization of Mycobacterium tuberculosis	1-3-2024	28/2/2027	Pharmaceutical	Dr. Deepak Kumar	ICMR	43,34,247.00	R&D/SA/ICMR/Pharma/23-24/12/536
212	Developing of a 3D non-kinematic dynamo model for the solar and stellar cycles	26/02/2024	25/02/2027	Physics	Dr. Bidya Binay Karak	SERB	6,60,000.00	R&D/IIT(BHU)VARANASI(SERB)/Phy/23-24/08/537
213	Approximation of runs in multi-state trials with appropriate distributions	26/02/2024	25/02/2027	Mathematical	Dr. Amit Kumar	SERB	6,60,000.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/07/538
214	Approximation methods generalized strum-liouville problems	26/02/2024	25/02/2027	Mathematical	Dr. Rajesh K. Pandey	SERB	6,60,000.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/08/539
215	Analyze the convergence bounds of federated learning with closer-to-practice constraints	26/02/2024	25/02/2027	Computer	Dr. Hari Prabhat Gupta	SERB	6,60,000.00	R&D/IIT(BHU)VARANASI(SERB)/CSE/23-24/06/540
216	Exploring normally-on Ferroelectric Fin/FET devices for neuromorphic computing applications	26/02/2024	25/02/2027	Electronics	Dr. Shivam Verma	SERB	6,60,000.00	R&D/IIT(BHU)VARANASI(SERB)/ECE/23-24/05/541
217	Coupled consolidation study of unsaturated soils from a numerical perspective	28/02/2024	27/02/2027	Civil	Dr. Manash Chakraborty	SERB	17,14,900.00	R&D/IIT(BHU)VARANASI(SERB)/Civil/23-24/07/542



218	Efficient layer adapted methods for parabolic interface problems with boundary and interior layers	03/08/2024	7-3-2027	Mathematical	Dr. Sunil Kumar	SERB	21,01,264.00	R&D/IIT(BHU)VARANASI(SERB)/Math/23-24/09/543
219	High temperature tribological studies of nanocomposite/multilayer coatings for dry sliding applications	17/01/2024	16/01/2026	Mechanical	Dr. A.P. Harsha	SPARC	59,53,832.00	R&D/CNA/3614/SPARC/Mech/23-24/06/544
220	Development of stable & high luminescence colloidal quantum dots and its light emitting device application	15/02/2024	14/02/2026	SMST	Dr. Bholu Nath Pal	SPARC	47,63,821.00	R&D/CNA/3614/SPARC/SMST/23-24/04/545
221	AI-Based platform for persons with visual impairment for effective social inclusion	21/01/2024	20/01/2026	Computer	Dr. Sanjay Kumar Singh	ICSSR	11,82,500.00	R&D/SA/ICSSR/CSE/23-24/07/546
222	Synthesis and characterization of interesting topological materials	16/03/2024	15/03/2027	Physics	Dr. Swapnil Patil	SERB	19,36,000.00	R&D/IIT(BHU)VARANASI(SERB)/Phy/23-24/09/547
223	Development of bio-resources for the generation of hepatobiliary tissues for mechanistic insights into liver regeneration	13/03/2024	12-3-2026	Biomedical	Dr. Gowri Manohari Balachander	SERB	30,44,987.00	R&D/IIT(BHU)VARANASI(SERB)/BME/23-24/09/548
224	Development of L10-FeNi (tetrataenite, ordered phase) for permanent magnet applications	19/03/2024	18/03/2027	Metallurgical	Dr. Nand Kishore Prasad	SERB	48,78,192.00	R&D/IIT(BHU)VARANASI(SERB)/Met/23-24/03/549
225	Kinetics of self-assembly and structural transitions in complex soft materials across multiple length scales	20/03/2024	19/03/2027	Physics	Dr. Awaneesh Kumar Singh	SERB	37,76,102.00	R&D/IIT(BHU)VARANASI(SERB)/Phy/23-24/10/550
226	Search for topological superconductor in Heusler family	16/03/2024	15/03/2027	Physics	Dr. Sandip Chatterjee	SERB	18,53,500.00	R&D/IIT(BHU)VARANASI(SERB)/Phy/23-24/11/551