

SI No.	Title of Project	Start Date	Year of completion	Capital Non-Recurring	Recurring	Total
1	“Design and development of miniaturized pattern/frequency reconfigurable MIMO antennas and its performance improvement using artificial electromagnetic material”	31.01.2017	30.01.2020	2500000	1752000	4,252,000.00
2	DST-INSPIRE Faculty Award (IFA-13 PH 54) understanding structure and dynamics of the Interstellar medium	07.12.2016	06.12.2021	0	3500000	3,500,000.00
3	Construction of Cold Inducible Expression System	16.02.2017	2019-20 15.02.2020	1039100	2571200	3,610,300.00
4	Enhancement of Lipid Content in Microalga Scenedesmus Obliquus Using Genetic Engineering Tool: a step towards biodiesel	07/09/1905	2019-2020 23.02.2019	0	450000	450,000.00
5	Characterization and validation of Schlieren Technique for Capturing Shock Wave	07/08/1905	2019.20 1.03.2019	800000	984800	1,784,800.00
6	Development of Polymer and Quantum Dots Blended Tandem Solar Cells Using Low Cost Solution Processed Method	07/09/1905	02.05.2020	2500000	1986000	4,486,000.00
7	Screening of Novel Psychrophilic alkaline Protace from the metagenome of Antarctic soil	07/06/1905	2020-21	515000	1389410	1,904,410.00
8	Development and structural characterization of Bi ₂ -xMx ₃ (y-3)/ ₂ coating for protection against coolant & sensors	07/09/1905	extended till March 2020	0	295138	295,138.00
9	Development of portable electrochemical sensor hydrogen peroxide	07/09/1905	08/01/2020	1120000	2372750	3,492,750.00
10	Propagation & Mitigation model of mixed road traffic noise for planning of mid- sized Indian Cities	07/09/1905	08/01/2020	7605000	26695000	34,300,000.00
11	Physical Layer Security for LTE based Wireless Networks to increase Jamming Margins	07/09/1905	09/01/2018	2250000	1110000	3,360,000.00
12	Identification of Gene Responsible for Degradation of Poly (ethylene terephthalate) in Ideonella sakalensis	07/09/1905	06/01/2020	1720000	2323200	4,043,200.00
13	Neem seed based nanocapsules and nanomedicine for targeted drug delivery and cancer therapy	24.01.2018	23.01.2021	575000	3471000	4,046,000.00
14	Functional-hollow-porous-bipolymer based Nanoformulations and Interventions for treatment of Cancer and prevention of Tuberculosis, concept of nanomedicine with multiple drugs for multiple diseases.	14.06.2017	13.06.2020	1140558	4077536	5,218,094.00
15	Incorporating Intelligence in Email System	05.01.2018	02/01/2020	320000	1048000	1,368,000.00
16	Studying few aspects of soil behavior and In-corporation them in Limit Analysis	22.12.2017	21.12.2022	1225000	2275000	3,500,000.00
17	Design & Development of Combined Cooling and Power Generation system	01/23/2018	01/22/2020	0	960000	960,000.00
18	Smart & Integrated Pedestrian System Design	07/08/1905	11/01/2019	0	1088692	1,088,692.00
19	Flow and segregation of granular materials out of hoppers and two & three dimensional devices	10/20/2018	21.10.2021	0	1044000	1,044,000.00
20	Electronic Structure evolution across quantum critical point in Li(Ti _{1-x} V _x) ₂ O ₄ Li _{1-x} Zn _x V ₂ O ₄	17.03.2018	03/01/2021	4400000	1100000	5,500,000.00
21	Robust Adaptive Mesh Methods for Singularly Perturbed Problems in Ordinary and Partial Differential Equations	21.03.2018	03/01/2021	518800	1576479	2,095,279.00
22	Development of low cost sodium ion battery: Fabrication and application of NASICON based electrodes	07/10/1905	04/01/2021	5250000	3039600	8,289,600.00
23	Collection of self-propelled particles in inhomogeneous environment : numerical & analytical Studies	22.03.2018	21.03.2021	1000000	1459600	2,459,600.00
24	Understanding the mechanism of action through cell biology and upgradation of herbal drug in solution and biodegradable patch for the treatment of diabetic foot ulcer	07/10/1905	07/01/2019	429000	2431000	2,860,000.00
25	In situ electron microscopy at atomic scale for understanding nucleation growth and interfaces of omega phase	07/10/1905	03/01/2021	4800000	1784600	6,584,600.00
26	Elastocaloric effect measurement setup to study caloric effect in shape memory alloys	07/13/1905	06/01/2021	0	1041621	1,041,621.00
27	The sun under the microscope – An integrated research activity to maximize the science return from a new generation of missions to study the sun	16.05.2018	05/01/2020	0	1928180	1,928,180.00
28	Schwarz waveform relaxation methods for singularly Perturbed Parabolic Problems	13.06.2018	05/01/2021	0	660000	660,000.00
29	Pharmacology of Natural drugs in obesity and eating disorders	07.05.2018	07/01/2020	1100000	1554600	2,654,600.00
30	Novel Electrode Materials for Reversible alkali –ion (Li ⁺ /Na ⁺) capacitors and Pseudocapacitors	06.07.2018	05.07.2021	1496040	2169205	3,665,245.00
31	Mix energy Source Electric Vehicle Charging System Design and its Impact on Indian Smart –distribution - grid	17.07.2018	07/01/2021	1800000	7649500	9,449,500.00

32	Meter Scale Granite block Smectic clay barriers experiment and associated TMH modeling for Indian Pit mode reference geological Disposal System	01.07.2016	07/01/2019		3088900	3,088,900.00
33	Development and validation of coupled Thermo-Hydro-Mechanical (THM) models for radioactive waste repositories in fractured rocks	26.02.2013	02/01/2019		3500000	3,500,000.00
34	Development of anticorrosive paints	14.05.2018	13.05.2019	0	120000	120,000.00
35	Dissecting brain reward circuitry and CNS comorbidities in chronic neuropathic pain	05.09.2018	08.06.2020	0	4909520	4,909,520.00
36	Detailed lecture based curriculum development for science subjects as part of Induction Programme in AICTE COLLEGES	15.06.2017	14.06.2019	0	1152000	1,152,000.00
37	Landslide stability analysis in subzero environment around Kinnaur district of Himachal Pradesh, India	23.02.2018	22.02.2021		4973200	4,973,200.00
38	A Robust medical image forensics system for smart healthcare	15.09.2018	09/01/2020	299890	1107980	1,407,870.00
39	Mott transistors based Neuromorphic memory device	29.09.2018	03.09.2021	8400000	1698200	10,098,200.00
40	Minimizing hysteresis in magnetic shape memory Heusler alloys for reversible magnetocaloric effect	14.09.2018	13.09.2021	3499853	1339985	4,839,838.00
41	Investigation on dynamic response analysis of shallow foundation resting on pond ash deposits	24.09.2018	09.09.2021	2000000	1614600	3,614,600.00
42	Phytochemical and pharmacological evaluations of bioactivity guided fractions of medicinal plants of Tripura	01.10.2018	27.09.2021	0	2655200	2,655,200.00
43	Development of an intelligent evaporative cooler for composite climate	11.09.2018	22.08.2020	747243	145000	892,243.00
44	Targeted drug delivery of methotrexate/gallic acid- folate conjugated Poly L-Lysine nanoparticles	15.09.2018	14.09.2021	1326000	2135200	3,461,200.00
45	Modeling self assembly and phase separation kinetics in the complex soft materials	06.11.2018	11/01/2021	2718050	1936325	4,654,375.00
46	Ramanujan Fellowship	28.11.2018	12/01/2023	0	3800000	3,800,000.00
47	Design Modelling and simulation of linear Induction Drive for Propulsion Applications	10.07.2018	07/01/2020	0	1000000	1,000,000.00
48	Low cost ammonia gas sensor based on polymer/polymer nanocomposite device formed by novel floating film transfer (FTM) technique	15.01.2019	03.01.2021	2344888	1224488	3,569,376.00
49	Metal hexacyanoferrate modified screen printed electrodes for the removal of radio nuclides	29.11.2018	01/01/2022	3200000	971680	4,171,680.00
50	Development and assessment of asphalt mastic from typical Indian and Austrian filler materials with a new test method	10.12.2018	12.11.2020	0	950000	950,000.00
51	Nanoscale interfacial magnetic skyrmions and its applications in memory devices	20.02.2019	19.02.2021	7500000	2850520	10,350,520.00
52	Study and analysis of Mathematical Models of Moving Boundry Problems	22.02.2019	02/01/2022	400000	1844000	2,244,000.00
53	Development of Ti alloy based composites by mechanical alloying and stirrer casting route for dental applications	04.03.2019	03.09.2022	3000000	2021000	5,021,000.00
54	River Aquifer exchanges & hydrogeological study for watershed management of betwa river basin	21.02.2019	05.02.2022	750000	1701000	2,451,000.00
55	Photonic radiative cooler for passive sub-ambient cooling	12.03.2019	15.01.2022	1800000	2388800	4,188,800.00
56	Investigations of new lead free perovskite materials for solar cells	12.03.2019	03/01/2022	912991	2896400	3,809,391.00
57	Applications of Spectral graph theory in analyzing the structural properties of large scale networks	08.03.2019	03/01/2022	0	660000	660,000.00
58	Controlled synthesis of MoO ₃ nanoparticles inside mesoporous materials for oxidative dehydrogenation of organic molecules with CO ₂	18.03.2019	03/01/2022	2285850	943580	3,229,430.00
59	Construction of Non-monotonic Lyapunov Function for the Dynamical Systems governed by differential inclusions	20.03.19	03/01/2022	0	660000	660,000.00
60	RKVY-RAFTAAR, Agribusiness Incubators (R-ABI) under RKVY-RAFTAAR Scheme	13.03.2019	03/01/2021	10000000	13300000	23,300,000.00
61	Direct cooling of the Silicon Photovoltaic Module Enabled by an Array of Micro channel built in the backside EVA -Layer	22.03.2019	03/01/2022	3524800	627480	4,152,280.00
62	Approximation methods for problems in fractional calculus of variations	28.03.2019	03/01/2022	150000	2006264	2,156,264.00
63	Table Top Sem for CIF (One Time Support Grant)	27.03.2019	NA	1731500	0	1,731,500.00

64	NRDC Innovation Facilitation Centre	29.03.2019	03.04.2022	188000	1612000	1,800,000.00
65	Chemical modification of Gaur Gum to improve its properties	05.04.2019	03/01/2021	330000	440000	770,000.00
66	Design and development of Micro Seismic based technique for monitoring and prediction of slope failure in Pandoh, Himachal Pradesh, India	29.03.2019	28.03.2022		4977040	4,977,040.00
67	Virtual synchronous generator for microgrid applications	27.03.2019	03/01/2022	3370850	1184080	4,554,930.00
68	Whole body Vibration Exposure on HEMM Operators in Surface Coal Mines – An Assessment of Various Contributing Factors	30.03.2019	29.03.2023	1858184	2145578	4,003,762.00
69	Removal of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) using Adsorption and Bioremediation	15.03.2019	30.09.2023		5402420	5,402,420.00
70	Harnessing the synergy of low band gap organic semiconductor and highly facile floating film transfer method for low cost efficient organic electronic devices	12.04.2019	30.09.2023	0	4285375	4,285,375.00
71	Strategies towards generation of functional tissue engineered construct for orthopedic application	06.05.2019	30.09.2023	0	2325950	2,325,950.00
72	National Geotechnical Conclave on “Development of Early warning system (EAWS) for Landslide Hazard Mitigation on 21-22 March, 2019	01.03.2019	NA		550000	550,000.00
73	Role of short range ordering in designing high entropy alloys	28.03.2019	03/01/2022	3200000	936000	4,136,000.00
74	Natural Template Based Novel Neuroprotective Molecules for the management of Alzheimer’s Disease	23.05.2019	19.05.2022	872000	2848240	3,720,240.00
75	Cyclic thermochemical fuel generation	20.05.2019	03/01/2022	3000000	2263920	5,263,920.00
76	Aging studies and estimation of thermal properties of Liner Materials	30.05.2019	28.05.2022	11327130	6187180	17,514,310.00
77	Development of complex Aluminium Shell Part High pressure die-casting	26.09.2019	25.09.2021	0	2485000	2,485,000.00
78	Assessing the Suitability of warm mix asphalt (WMA) Technology Using Tribological and Performance Characteristics	27.05.2019	19.05.2022	1792990	1877690	3,670,680.00
79	Output feed back controller design for linear parameter varying systems	17.07.2019	07/01/2022	3100000	2632760	5,732,760.00
80	Modelling & simulation of ultra-high temperature coating on substrate using CVD/CVI Process	22.07.2019	07/01/2021	95000	886000	981,000.00
81	Pharmacological evaluation of anti-diabetic effects of some natural drugs	21.08.2019	12/01/2022	1510000	1527500	3,037,500.00
82	How Beclin 1 mediates cross-talk between apoptosis and autophagy via ITS C-Terminal Fragment?	30.08.2019	31.03.2023	0	1774847	1,774,847.00
83	Development of novel near infrared fluorescence imaging probes for detecting amyloid beta species in eyes of Alzheimer’s disease animal model	18.09.2019	Extended till 15.09.2023	350000	3350000	3,700,000.00
84	Development of magnetically recyclable visible light photocatalysts for H2O2 Production	06.09.2019	05.09.2022	1500000	1905850	3,405,850.00
85	Impact of Carbon Nanomaterial based Photocatalyst on Microalgae Growth and Lipid for improved Biodiesel	17.09.2019	04.08.2022 Extended till 04.02.23	0	730000	730,000.00
86	Electromagnetic Analysis, Design and Simulation of Dual Frequency (S- and C-band) Relativistic Backward wave Oscillator – A HPM Source	19.09.2019	30.09.2022	2000000	2685000	4,685,000.00
87	Development of high strength ceramic magnet for rotating machine applications	11.10.2019	10.03.2023	900000	1691600	2,591,600.00
88	Rheophysics of semi-rigid road building materials and optimization of their composites for the perception of heavy transport load	23.08.2019	12.08.2021	0	1040000	1,040,000.00
89	Development of a unified physical model for hot deformation and creep to support the development of high temperature materials	27.11.2019	02/01/2024	0	3500000	3,500,000.00
90	Detailed study on the effect of mining as well as Thermal Power Stations on Natural water bodies in Singrauli Region and Recommendation Thereof	07.01.2020	03.11.2022	1500000	4377000	5,877,000.00
91	Optimization Of capacity utilization of draglines deployed in NCL through Big data Analytics	01.06.2020	31.10.2023	2103248	6293752	8,397,000.00

92	Study for impact assessment of back filling of fly ash in abandoned gorbi mine and treatment/management of acidic water to avoid contamination of ground water and soil	01.06.2020	31.05.2023		12480000	12,480,000.00
93	Contribution of Neighboring Industries over the air quality of mining area	01.06.2020	31.05.2023		13400000	13,400,000.00
94	Evaluation of ground behaviour in open cart and underground excavations using TDR	01.06.2020	31.10.2023	1800000	1644000	3,444,000.00
95	Development of transition metal based nanocatalysts for bioinspired water oxidation	20.05.2019	19.05.2022	1000000	600000	1,600,000.00
96	Stability Evaluation of dump slopes & developing slope stability model for design of Long Term Stable Dump Slopes through proper benching & vegetation : Part A	01.06.2020	31.05.2023	3000000	3680000	6,680,000.00
97	Developing Superior Nobel Metal free Oxygen Evolution Catalyst for Electrochemical Water oxidation and Metal -Air Battery	11.11.2019	10.11.2021	1000000	1464000	2,464,000.00
98	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	4950000	9163000	14,113,000.00
99	Promoting water Oxidation Reaction with Electrochemically Synthesized ultrathin Layered double Hydroxide Nanosheets	15.11.2019	11/01/2021	1600000	1051000	2,651,000.00
100	Novel Milk Exosomes for the combination therapy by using selected natural medicine (Paclitaxel & Colchicine) for the efficient management of breast cancer	19.11.2019	18.03.2022	1300000	1838344	3,138,344.00
101	Prospects of power converters for integration of electric vehicle charging stations with the existing distribution system in India	11.07.2019	30.09.2023		4978635	4,978,635.00
102	Targeting kinesins Mediated regulation of nociceptors for the Treatment of Neuropathic Pain	04.11.2019	30.09.2023	0	4753775	4,753,775.00
103	Safer Roads: Development of Mix Design Methodology for OGFC Mixes	22.11.2019	07.11.2022	0	1192000	1,192,000.00
104	Development of Simulation Software for Spintronic Device & Circuit Simulation	03.12.2019	02.06.2022	512910	1100690	1,613,600.00
105	Life cycle and performance of Waste Plastic roads	19.11.2019	08.03.2021	300000	1750000	2,050,000.00
106	Life Cycle and performance assessment of cold mix roads	19.11.2019	08.03.2021	300000	1750000	2,050,000.00
107	Wear corrosion and biocompatibility of Tantalum (Ta) coated 316 L, Stainless steel for Orthopedic Applications	29.11.2019	12/01/2022	2100000	2393240	4,493,240.00
108	Slope stability monitoring and analysis using hyperspectral imaging	09.12.2019	04.12.2022	3000000	1710500	4,710,500.00
109	Tuning self assembly of fluorescent Protein Nanodots for Melanoma Skin Cancer	24.12.2019	01/01/2023	2425020	1243502	3,668,522.00
110	Understanding the engineering behavior of unsaturated geomaterials and implementing it in limit analysis for solving geotechnical problems	24.12.2019	16.12.2021	1810000	918000	2,728,000.00
111	Bioluminescence based monitoring of tumor progression and treatment by apoptotic pathway	24.12.2019	18.12.2024	0	4250000	4,250,000.00
112	Development of Functionally Graded Armour Composites (FGACs) Materials	16.10.2019	10/01/2022	5500000	3926208	9,426,208.00
113	Regional characterization of atmospheric aerosols at Varanasi Region	24.01.2020	Contuning Project initially till 2022	1450000	1413000	2,863,000.00
114	Development of ORC technology for waste heat utilization for the generation of electricity	09.01.2020	19.12.2022	1200000	1685350	2,885,350.00
115	Assessment of Structural Vulnerability through Characterisation of Tornado for a NPP Site	21.11.2019	20.11.2022	1073000	2164550	3,237,550.00

116	Research & Experiment in the area of advanced data structures and methodologies to represent and process large terrain datasets for efficient rendering	24.10.2019	07/01/2020	0	995000	995,000.00
117	On understanding the solar activity and preparing for space weather prediction using a state of the art dynamo model	04.10.2019	10/01/2022	1000000	2099000	3,099,000.00
118	Metal Nanostructure assisted plasmonic hot electron induced phase transformation in 2D-Transition metal dichalcogenides for hydrogen evolution reaction	05.02.2020	02/01/2024	6000000	3790000	9,790,000.00
119	Synthesis and evaluation of diverse N-functionalized heterocyclic hybrids as multi target directed ligands for neuroprotective neurorestorative therapies	05.02.2020	Extended till 04.02.2024	3850000	3689000	7,539,000.00
120	Development of high performance, CMOS compatible and color selective narrow-band photodetector for high resolution imaging application	31.01.2020	Extended till 06.08.2023		6714400	6,714,400.00
121	Design development and characterization of Low loss frequency selective metamaterial waveguide coupler and antenna for 5 G Applications	20.02.2020	10.02.2023	0	660000	660,000.00
122	Mechanical behaviour of advanced high strength steel processed by additive manufacturing	18.02.2020	02/01/2023	2453542	1530354	3,983,896.00
123	Tunable surface plasmon optical sensing behaviour of M-MoS ₂ (M=Cu, Ag, Au) Alloy Nanostructures	18.02.2020	2/1/2023 extended till 31.12.2023	3400000	1065000	4,465,000.00
124	Creep and corrosion behaviour of Novel MRI2300 Magnesium Alloy with Nanoparticles Addition	02.12.2019	12/01/2022	1200000	522000	1,722,000.00
125	Development of low cost β -Ti alloy for biomedical applications	02.03.2020	04.03.2024(extended)		4050400	4,050,400.00
126	In-situ microscopy study of age hardening in dispersion strengthened cast magnesium alloys and its ex-situ correlation with mechanical properties	04.03.2020	03/01/2023	1428000	2308064	3,736,064.00
127	High performance rare earth free nanocomposites permanent magnet for advanced motor and alternative energy applications	04.03.2020	03/01/2023	3199877	2490387	5,690,264.00
128	Pathology on a Spinning Disc	15.05.2020	20.05.2023 Extended till 14.05.2024	3575000	5835000	9,410,000.00
129	Design and development of a Membrane reformer prototype for production of ultra pure hydrogen from methanol for fuel cell based vehicle and power generators	29.05.2020	01-09-2020 extended till 23-01-2021	6263700	5172450	11,436,150.00
130	Development of text based matching algorithms for bartering software	02.05.2020	04/01/2021	0	1162500	1,162,500.00
131	Design and analysis of linear induction motor drive for electromagnetic aircraft launching system	19.03.2020	07/01/2022	720000	2280000	3,000,000.00
132	Intelligent system for computer assisted diagnosis (CAD) OF CANINE MAMMARY TUMORS	29.04.2020	04/01/2022	1103899	1840960	2,944,859.00
133	Strategic Planning for Water Resources and Implementation of Novel Biotechnical Treatment Solutions and Good Practices (SPRING)	21.05.2020	13.05.2023	1650000	5477840	7,127,840.00
134	Re-purposing of approved drugs from Drug Bank database for possible treatment for COVID-19 by targeting SARS-CoV-2 main purpose	20.06.2020	19.06.2021	0	1544664	1,544,664.00

135	Development of High Te Lead Free Piezoelectric Materials for Energy Harvesting	18.03.2020 extended till	17.09.2023	2400000	2871200	5,271,200.00
136	3 D Bio Stereolithography for Enggineering fucntional Tissues	09.07.2020	06.07.2025	0	3724640	3,724,640.00
137	Development of guidelines for use of waste reclaimed water in pavement construction	28.07.2020	19.05.2023	0	2756160	2,756,160.00
138	Investigation of Structural phase transformation in HfO2 thin films using X-ray absorpion spectroscopy	20.06.2020	19.06.2023	0	89980	89,980.00
139	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	6000000	3121000	9,121,000.00
140	Multiple reversals of the Sun's polar- field and their physical causes	14.02.2020	01/01/2022	00	1034680	1,034,680.00
141	Biodegradable path for faster wound healing including diabetic ulcers using ayurvedic medicine	24.09.2020	23.09.2023	0	2700000	2,700,000.00
142	Forewarning System for Landslide Prediction along Mangan and Chungthang road, Sikkim India	23.10.2020	22.10.2023	2499240	1879460	4,378,700.00
143	Integrative Environment View (IEV) for Sustainable Hyper Local Temporal & Spatial Environmental Pollution Monitoring : Case of Air Quality in Varanasi City	23.10.2020	NA	1000000	467300	1,467,300.00
144	AMWATCH: Defining the AMR Burden of Antimicrobial Manufacturing Waste in Puducherry and Chennai	19.12.2020	13.12.2024 (extended)	4050000	6600720	10,650,720.00
145	Multilingual document summarization in quasi stationary environment	12.11.2020	11.11.2022	720000	2958000	3,678,000.00
146	Investigation of two dimensional transition metal dichalogenides Nanostructure as Effective SERS Substrate	28.12.2020	24.12.2023 Extended till 27.03.2024	2000000	2382400	4,382,400.00
147	Development of Novel Therapeutics for the Redemption from Frostbite and Burn Injury induced Chronic Pain in Military Veterans	31.12.2020	30.12.2023 Extended till 30.01.2024	0	4081240	4,081,240.00
148	Stability of Nanostucture and Residual Stress Developed through Ultrasonic Shot Peening in Superalloy IN718 at Elevated Temp.	18.09.2020	12/11/2022		2886800	2,886,800.00
149	Scattering assisted imaging: Exploiting randomness of the light.	28.12.2020	12/27/2023	2500000	921000	3,421,000.00
150	Study of Polarmetric parameters from laser speckle	17.09.2020	12/17/2023		2950240	2,950,240.00
151	Development of bi-functional electrochemical nanobiosensors for bacterial exotoxin detection: Implication towards screening of toxin producing bacterial isolates	10.05.2016	09.05.2021	0	3800000	3,800,000.00
152	Novel integrated engineering approach for effective tar decomposition and its last minuts removal to fuel gas reforming in biomass pyro-grasification	29.12.2020	12/29/2023		3562685	3,562,685.00
153	Developing Psyllium Husk Based Polysaccharide Hydrogel into Electrospinnable and 3D Printable Materials : Towards Fabrication and Comparative Evaluation of Lyophilized, Electrospun and 3D Bioplotted Scaffolds for Liver Tissue Engineering	30.12.2020	25.12.2023	1500000	2751962	4,251,962.00
154	Resource-optimized fog computing for smart healthcare application in IoT-enable heterogeneous networks	30.12.2020	12/29/2022	1498700	1408270	2,906,970.00

155	Noble multimetallics/ZnO photocatalyst for hydrogen production from green sources	11.01.2021	31-01.-2021	0	1323000	1,323,000.00
156	Impact of a microspray on a bio-mimicking surface	12.01.2021	13.12.2022	1900600	1272460	3,173,060.00
157	Effect of Jet Pulsation on Reacting Jet in Crossflow	22.12.2020	21.12.2022	2400000	801000	3,201,000.00
158	Development of nanoink for anti-counterfeit products and solution	04.02.2021	19.01.2023	0	100000	100,000.00
159	Factor affecting exhaust emissions of motorized two wheeler in an Indian Tier-II city: A case study of Varanasi	11.01.2021	18.12.2022	866430	1077740	1,944,170.00
160	Existence and Stability analysis of periodic solution of variable time impulsive neural network	28.01.2021	01/08/2024	0	660000	660,000.00
161	Validation of Glutathione synthetase from Leishmania donovani as new drug target or discovery of new drug candidate	06.02.2021	28.07.2024 (extended)	1400000	1816128	3216128
162	Assessment of Vulnerability of structures in Regard to Cyclonic Wind loads	22.01.2021	21.01.23	250000	1426000	1,676,000.00
163	Life Line Security & System	25.03.2021	09.03.2024	0	100000	100,000.00
164	Spatially resolved digital holography plarization microscope for diagnosis applications	12.03.2021	11.03.2024	1594600	2550240	4,144,840.00
165	Developing Improved Algorithms for Intelligent Video Surveillance	20.03.2021	19.03.2024	1019950	1888395	2,908,345.00
166	Automatic map generation from high resolution	20.03.2021	14.03.2024		3322264	3,322,264.00
167	Development of a standalone solar electric drive system for boats	25.03.2021	24.03.2022	00	500000	500,000.00
168	Prototype development of fuel cell and photovoltaic based innovative hybrid DC power pack for remote application	25.03.2021	24.03.2024	0	3810000	3,810,000.00
169	Portable smart in vitro diagnostic platform for monitoring thyroid disorders	31.03.2021	24.02.2024	0	1194000	1,194,000.00
170	Investigation risk factors and predicting complications in COVID-19 patients with Machine Learning Algorithms	01.03.2021	28.11.2021	162500	287500	450,000.00
171	Analysis and design of sub-millimeter wave tuneable gyrotron for DNP- NMR Spectroscopy application	05.04.2021	25.03.2024	2700000	2316264	5,016,264.00
172	Improvement of delamination fracture toughness in nao-graphene particles reinforced polymer composite laminates: An experimental-numerical approach	31.03.2021	15.03.2024 Extended till 30.06.2024	0	1830400	1,830,400.00
173	Fabrication of Cathode materials and SOFC for energy application	31.03.2021	30.03.2024	00	1144000	1,144,000.00
174	Development of Cyber Resilient Protection scheme for AC Microgrid	22.03.2021	21.03.2024	2500000	2076264	4,576,264.00
175	Study the BioCNG production potential of different feedstocks	17.05.2021	16.05.2022	150000	434448	584,448.00
176	Design of Protective Barrier Pillar Against Large Water Head in Underground Coal Mines	02.08.2021	01.08.2023		10322000	10,322,000.00
177	Experimental and Numerical Investigation on Strength Behaviour of FRP Retrofitted Beam	31.05.2021	25.03.2022	350000	150000	500,000.00
178	A System for Quality Control and Certification of Geospatial Data for NSDI	15.06.2021	02.05.2022	400000	1444554	1,844,554.00
179	Development of photoactivated transfer hydrogenration in catalysis for heat generation cancer transfer	17.02.2021	16.02.2026	200000	3300000	3,500,000.00
180	Surface charge induced antibacterial and cellular reponse of Hydroxyapatite-preovskite composites for orthopedic implant application	31.03.2021	28.03.2024	0	1092000	1,092,000.00

181	Characterization of indigenous cow's dung and urine for scientific advancement and development of utility items	30.06.2021	06/23/2024	899900	1960677	2,860,577.00
182	Tailoring correlations of light using plasmonic and nano structure	15.07.2021	14.06.2024	1200000	2169850	3,369,850.00
183	Emergent phases in 2D quantum materials and Heterostructures	16.02.2021	15.02.2026	1400000	1050000	2,450,000.00
184	Seasonal study on photocatalysis experiments in India environment	12.07.2021	17.03.2023	15000 Ponds	#VALUE!	307,965.00
185	Design, development and demonstration of solar-IV integrated on board and off board electric rickshaw charging Infrastructure	09.08.2021	20.08.2024	4316600	4464420	8,781,020.00
186	Indo- South korea Joint Network Center for Environmental Cyber Physical Systems	17.08.2021	03.01.2024	0	2487740	2,487,740.00
187	Development of Nitride Ceramics thin-film for soft x-ray applications	09.09.2021	08.09.2023	0	45000	45,000.00
188	Early stage detection of Non-small cell lung cancer by developing aptamer-graphene microarray	27.08.2021	22.08.2024	0	5000000	5,000,000.00
189	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	1646000	329000	1,975,000.00
190	Data-driven battery sizing for standalone solar electric drive system for river boats	03.09.2021	24.08.2022	300000	360000	660,000.00
191	Integrated computational and experimental studies to potential therapy of kala-azar targeting Dephosphocoenzyme A Kinase (LdDPCK) of the pathogen as a target	03.09.2021	Extended till 31.03.2024	700000	1300000	2,000,000.00
192	Prediction of Dose- Volume Histograms of Organs-at-risk in Prostate Cancer Radiation Therapy using Machine Learning	03.09.2021	24.08.2023	150000	202000	352,000.00
193	Development of a scalable volatile organic compound (VOC) sensing based intelligent cyber physical system for near real-time vehicular pollution monitoring and recommendation for reduced emissions	03.09.2021	24.08.2023	1000000	980000	1,980,000.00
194	Development of Optical Fibre Cable Coloring Machine	30.09.2021	27.09.2023		2332381	2,332,381.00
195	Art, science and technology of traditional "Koftgari" metal work in India	20.10.2021	27.09.2022	00	285000	285,000.00
196	Bioengineering of living materials to fabricate functionalized bacterial nanocellulose for high performance applications	27.09.2021	26.09.2026	0	4250000	4,250,000.00
197	Analytical study of sansad adarsh gram yojana of Jayapur and Nagapur in Varanasi District	05.11.2021	20.02.2022 Extended till 31.10.2022	10000	190000	200,000.00
198	Study on effect of temperature and mean stress on fatigue strength of turbine aerofoil alloy	18.11.2021	4.5 yrs	00	28190000	28,190,000.00
199	Development of perovskite oxides SrCeO3 and SrCeO4 as high temperature thermal barrier coating (TBC) material for aerospace application	25.10.2021	24.10.2024	900000	2079420	2,979,420.00
200	Development of Friction Stir Welding for repair work of high temperature materials like EN-24 steel	01.01.2022	31.12.2023	3000000	2390000	5,390,000.00
201	Development of advanced nanocrystalline coatings and LASER cladding system for repair work related to HEMMS and other structural components	01.01.2022	31.12.2023	5800000	2780000	8,580,000.00

202	Design, Function, and Utilization of Multifunctional Surface Coatings for Next-Generation Lithiumion Batteries	13.12.2021	12.12.2023	2339610	967000	3,306,610.00
203	Crystal Engineering of Dapagliflozin to improve its pharmaceutical properties	20.12.2021	19.12.2023	1401327	1739040	3,140,367.00
204	Discovery of novel selective inhibitors of choline acetyltransferase : Lead optimization and in vivo pharmacolinectic studies	23.12.2021	22.12.2023	1500000	1786840	3,286,840.00
205	Production of high-purity methane from renewable biomass through anaerobic digestion	28.12.2021	27.12.2022	95000	25000	120,000.00
206	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	1000000	3257260	4,257,260.00
207	Bioactivation of cyclopentadienyl rings in organometallic complexes	17.09.2021	11.05.2023		588761	588,761.00
208	Localized Electricity generation through Modular Low Temperature ORC Units	04.01.22	23.12.2023	2500000	2340000	Rs. 48,40,000/-
209	An Artificial Intelligence supported Intrusion Detection & Behavior Monitoring System for Crucial Data Servers against Novel Cyber Attacks	23.12.2021	26.12.2023		2693540	2,693,540.00
210	Cyber security of critical infrastructure: National Level Medical Grid System	29.12.2021	28.12.2024		3067000	3,067,000.00
211	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	0	2167240	2,167,240.00
212	Implementation of Terahertz Band Communication for Next generation wireless Networks	30.12.2021	28.12.2023	1140000	1227240	2,367,240.00
213	Development of Mesoscale models to describe hot deformation and creep of low SFE materials	28.10.2021	12.10.2023	00	1090000	1,090,000.00
214	New "metabolite-amyloids" hypothesis for the origin of life	15.12.2021	19.12.2023		2871126	2,871,126.00
215	Design and development of Cybersecured Smart Power interface for Energy-Local Area Network (ELAN)	13.01.2022	12.01.2025	0	1464000	1,464,000.00
216	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	2650000	4644173	7,294,173.00
217	Design and development of Molecular hybrids on a multifunctional framework for regulating Cholinesterases, β -secretase 1, Amyloid- β , and Oxidative Stress Against Alzheimer's Disease	02.12.2021	01.12.2024	500000	2180895	2,680,895.00
218	Investigation on Hydrogels and Development of Multi-Responsive Polymers for Healthcare Applications	05.01.2022	13.01.2024		2214340	2,214,340.00
219	Complex of online and onsite lectures on materials for hydrogen generation by solar water splitting	05.01.2022	04.01.2026		207000	207,000.00
220	Chemical recycling of electronic waste for sustainable livelihoods and material consumption in India	28.03.2022	27.03.2024	0	4607126	4,607,126.00
221	Effect of composition and microstructure on mechanical properties of 7-9%Ni steel for LNG tanker and Naval application		20.01.2024		3201000	3,201,000.00
222	Microstructurea tailoring to develop biocompatible Cr-Fe-Mo-Nb-Ti based high entropy alloys for medical applications	14.01.2022	13.01.2024	1169680	1892360	3,062,040.00

223	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		5231900	5,231,900.00
224	Development of Sparse Inverse Co-variance based functional brain connectivity scheme for the assessment of shared autistic traits in autism and typical development	24.01.2022	27.01.2024		1576300	1,576,300.00
225	Self-assembled smart nano medicine for targeted therapy of advanced non-small cell lung cancer	29.03.2021	28.03.2024	0	1343928	1,343,928.00
226	Design and development of potential multifunctional molecular hybrid for the treatment of Alzheimer's disease	28.01.2022	27.01.2025	0	2828600	2,828,600.00
227	Investigation and development of mobile sink based intelligent data routing scheme for IoT-enabled wireless sensor networks	21.01.2022	20.01.2024	1595000	1576340	3,171,340.00
228	Design and development of cognitive small-world LPWAN for Internet of things towards health monitoring	28.01.2022	27.01.2024	1549310	1461770	3,011,080.00
229	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	1960000	2970992	4,930,992.00
230	Reactivity controlled compression ignition (RCCI) combustion engine for methanol utilization and its feasibility analysis to be adopted in hybrid electric vehicles (HEVs)	28.01.2022	27.01.2024	1384800	1363880	2,748,680.00
231	Human IL-2 fused leishmanial trypanothione synthesis (TS) as protein vaccine candidates	20.01.2022	01.03.2024	0	1537943	1,537,943.00
232	Development of Hand Telerehabilitation Platform for Diagnostic and Therapeutic Purposes in Physiotherapy	27.01.2022	26.01.2025	0	2128764	2,128,764.00
233	Metasurface-based Sensor devices for mm-wave and sub-terahertz Applications	28.01.2022	20.01.2025	3000000	2621264	5,621,264.00
234	Safety & Efficacy of the "PL05" capsule/tablet in Animal in the treatment of gastric acidity	04.02.2022	26.12.2022	0	1975000	1,975,000.00
235	Utilization of Industrial Wastes in Dense and Gap Graded Asphalt Mixes as Fillers	25.01.2022	Extended till 15.02.2024	3843263	2161692	6,004,955.00
236	Exploring Anti-inefective potential of Panchagavya : Metabolomics and Proteomics Approaches	20.01.2022	02.01.2025	3883600	2659778	6,543,378.00
237	Fabrication of low power consuming inverted near-infra red AMOLED	17.03.2021	16.09.2024(extended)	0	4782000	4,782,000.00
238	Development of toolkit for prediction of blood brain-barrier permeability using deep learning to expedite CNS drug discovery	23.02.2022	17.02.2025	0	660000	660,000.00
239	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	1450000	3087996	4,537,996.00
240	Technology intervention for creative economy	11.02.2022	31.07.2023	0	935000	935,000.00
241	Study and analysis of interfacial cracks in composite media	17.02.2022	15.02.2025	0	230500	230,500.00
242	Development of a real-time cyber-attack detection module and its hardware-in-loop testing for an integrated power network	31.01.2022	30.01.2023	2900000	2092000	4,992,000.00

243	Development of energy efficient and compact electric drive train for fuel cell electric vehicle	18.02.2022	23.02.2025		4917264	4,917,264.00
244	Pseudo-differential operators in partial differential equations, distribution and machine learning?	18.02.2022	17.02.2025	00	660000	660,000.00
245	Analytical study of hydrodynamic theory of wet active fluid	18.02.2022	17.02.2025	00	660000	660,000.00
246	Hybrid EEG-EMG based Prosthetic hand for transradial amputees to perform reach and grasp tasks	17.02.2022	23.02.2024		3714782	3,714,782.00
247	Design and Development of High Gain, Wide Bandwidth Beam Steered Reconfigurable Reflectarray Antennas for 5Gmm Wave Applications	05.03.2022	03.03.2025	2774970	2351261	5,126,231.00
248	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	212000	1462200	1,674,200.00
249	Design and Development of Composition engineered toxic free organic inorganic Perovskite Quantum Dots Based Flexible Spectrum Tunable Photodetectors	05.03.2022	01.03.2025	2000000	2290234	4,290,234.00
250	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	855000	2351764	3,206,764.00
251	Reliability evaluation and performance enhancement of grid integrated wind-solar-EV hybrid renewable energy systems	05.03.2022	04.03.2025	2000000	2136264	4,136,264.00
252	Optimal transport derivations in regularized wasserstein space for non-linear & linear transformations of deep neural networks	18.02.2022	17.02.2025	00	660000	660,000.00
253	Active polar flock in quasi two-dimensional geometry: role of confinement and boundary condition	08.03.2022	07.03.2025	999979	1849261	2,849,240.00
254	Study of quantum chaos and multipartite entanglement using quantum circuits	10.03.2022	09.03.2025	299250	1856189	2,155,439.00
255	Multifunctional Nanostructured Mn/Fe doped CeCrO3 for Photocatalyst and Magnetic Switching	10.03.2022	09.03.2025	2750000	2106764	4,856,764.00
256	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	1200000	653500	1,853,500.00
257	Li-ion based inverter for household appliances	03.03.2022	02.09.2022	00	595257	595,257.00
258	Development of Laboratory Scale Bio-Grout Technology for Landslide Mitigation	10.03.2022	09.03.2025		3295380	3,295,380.00
259	Language Communicator Tool for End Users	09.03.2022	08.03.2025	226000	6163257	6,389,257.00
260	Development of prototype of early warning systems on impending goaf for underground coal mining.	24.02.2022	27.02.2025		3691600	3,691,600.00
261	Investigation of Anomalous Nernst Effect in Shape Memory Heusler Alloys	14.03.2022	13.03.2025	5000000	1842000	6,842,000.00
262	Development of industrial waste as mold material for sustainable development of developing countries	15.03.2022	14.03.2025	798000	1921200	2,719,200.00
263	Wavelets Adaptive Schemes for Singular Integral Equations	16.02.2022	20.02.2025	00	660000	660,000.00
264	On Developing Polynomial-time Interior-Point Methods for Robust Multiobjective Convex Optimization Problems	29.03.2022	28.03.2025	00	660000	660,000.00

265	Demonstration and reproduction with scientific validation of some Ceramic Materials Knowledge System of Ancient India	02.04.2022	01.04.2024	0	1422000	1,422,000.00
266	High proton conducting metal phosphonate electrolytes for fuel cell application	24.03.2022	23.03.2024	1845900	2274478	4,120,378.00
267	Design and development of next generation cost effective reconfigurable on-board battery charger with health and fault monitoring	31.03.2022	30.03.2024	12030000	7799404	19,829,404.00
268	Electrolytic capacitor less six pulse DC ling photovoltaic system connected to grid	30.03.2022	29.03.2024	1850000	2694000	4,544,000.00
269	IKS at IIT(BHU) Varanasi	31.03.2022	01.04.2024	100000	3900000	4,000,000.00
270	Development of Cryptographically efficient lightweight MDS matrices and its extension to code-based PQC	12.04.2022	11.04.2025	1000000	1310000	2,310,000.00
271	Mineral Acids in India prior to 15th CE: A Revisit Exploring Arthasastra and other 15th CE Rasa Sastra texts	02.04.2022	02.04.2024	400000	600000	1,000,000.00
272	Development of an efficient module-integrated battery management system	31.03.2022	30.03.2024	6300000	3662000	9,962,000.00
273	Neeti Shastras and Modernity : Understanding the reflective equilibrium between Hermeneutics of Normative Texts and Practice	02.04.2022	01.04.2024	400000	600000	1,000,000.00
274	Traditional Principles of settlement planning in heritage temple sites of Odisha/ erstwhile kalinga region	02.04.2022	01.04.2024	400000	600000	1,000,000.00
275	Development of advanced Medical Textiles	04.05.2022	03.05.2027	0	300000	300,000.00
276	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)	380000	1144000	1,524,000.00
277	TIFAC-MSME Program	12.04.2022	11.04.2024	0	0	20,00,000.00
278	On the augmentation of heat transfer from external downward facing Convex surface of Calendria vessel with nano-texturing	27.05.2022	26.05.2025	1050000	2599040	3,649,040.00
279	Multi output hybrid solar inveter for low power applications	14.06.2022	09.06.2023	00	1008000	10,08,000.00
280	Study of some Two dimensional fractional order nonlinear transport phenomena problems in porous media	08.06.2022	07.06.2025	852000	632800	1,484,800.00
281	Developing novel therapeutic strategies for mitigating antimicrobial resistance	15.06.2022	14.06.2025	0	2051994	2,051,994.00
282	Effects of ceria support morphology for the synthesis of bimetallic catalysts for Nox reduction through H2-SCR	20.06.2022	27.06.2025	2200000	3047264	5,247,264.00
283	Crack modulation in dried colloidal films by soft additives	13.07.2022	13.07.2025	2500000	2186264	4,686,264.00
284	Modelling of advanced polycrystalline materials for crystal plasticity simulations of machining processes	14.12.2020	12.01.2023 Extended till 12.07.23	35000	908950	943,950.00
285	Blowoff Dynamics of Afterburner Flame	13.04.2022	12.04.2025	7900000	1990000	9,890,000.00
286	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	2695000	610500	3,305,500.00
287	Development of stable and tethered Os(II)-based catalysts for reductive stress mediated photo-catalytic anticancer activity	26.09.2022	25.09.2024	1363877	1576000	2,939,877.00
288	Numerical modeling and optimization of isothermal chemical vapor infiltration (CVI) process for C/SiC composites using MTS/H2 mixture	16.09.2022	15.03.2024	1000000	1478280	2,478,280.00
289	Novel observations and modelling of the heating and dynamical plasma processes in the localized solar atmosphere	10.09.2022	15.09.2025	500000	2303520	2,803,520.00

290	Development of Variable data rate CCSDS complaint direct digital demodulator	16.09.2022	15.09.2024	850000	1602920	2,452,920.00
291	Development of wearable internet of medical things for continous health monitoring of astronauts	16.09.2022	15.09.2025	850000	1759560	2,609,560.00
292	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	0	2518520	2,518,520.00
293	Development of graphene/CNT FET based sensors for space applications	16.09.2022	15.09.2024	1295000	1667920	2,962,920.00
294	Metasurface-based various components for applications in microwave and beyond	16.09.2022	15.09.2024	350000	2183520	2,533,520.00
295	Design and development of reconfigurable reflect array antenna at X-band	16.09.2022	15.09.2024	600000	2177920	2,777,920.00
296	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	250000	2823520	3,073,520.00
297	Designing metallic glass composites with immiscible elements as alloying elements for improved plasticity	1.10.2022	10.10.2024	2100000	1210000	3,310,000.00
298	Design and development of kinetically stable electrolytes for next-gen Li-ion batteries (ElectroLilon)	11.10.2022	10.10.2024	1300000	1640340	2,940,340.00
299	Thermo-catalytic conversion of carbon dioxide into ethanol and higher alcohols	11.10.2022	10.10.2024	1586500	1723040	3,309,540.00
300	Electronics repairing and E-waste collection system	26.07.2022	25.01.2023	00	50000	50,000.00
301	Development and processing of magnetocaloric thin sheets for enhanced thermomagnetic energy harvesting applications	13.10.2022	12.10.2024	1635000	1564900	3,199,900.00
302	A Novel, Rapid, High-Throughput Characterization of Microbiome Dynamics through Cytomics and Machine Learning	05.11.2022	04.11.2024	1491436	1370000	2,861,436.00
303	Development of an inexpensive high-fidelity technique for the prediction of failure capacity of thin shell structures	09.11.2022	08.11.2024	1025000	1392840	2,417,840.00
304	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	1745250	1427420	3,172,670.00
305	Design and analysis of adaptive tow-steered laminates	10.11.2022	09.11.2024	2254900	931690	3,186,590.00
306	Development of fly ash brick from the waste generated from Grasim Industries Ltd. , Renukoot, UP	12.11.2022	11.11.2023	0	637500	637,500.00
307	Investigation of processing techniques for the development of PEEK and Thermoplastic prepreg technologies	29.11.2022	30.05.25	3050000	5797860	8,847,860.00
308	Design and development of machine learning based methods for plant disease detection	21.10.2022	30.11.2025	0	1044000	1,044,000.00
309	Development of high-strength vanadium microalloyed steels for heavy gauge plate	15.12.2022	14.12.2025	1020000	8276854	9,296,854.00
310	Graphite Aerosol studies in High Temperature Aerosol Facility for nuclear reactor applications	17.12.2022	16.12.2025		4050800	4,050,800.00

311	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	1500000	3338064	4,838,064.00
312	Study of composition and thermo-mechanical processing of 4-8% Cu Al alloy for fabricating the fuselage skins and frames for aerospace application	29.08.2022	20.12.2025		1092000	1,092,000.00
313	Smart DC charging with integrated digital platform for CPOs and Power distribution companies	23.12.2022	22.01.2025	800000	2752000	3,552,000.00
314	Study on therapeutic and preventive efficacies of linoleic acid in hamster model of visceral leishmaniasis	16.12.22	15.12.2024	0	836879	836,879.00
315	Design and development of implantable and ingestible antennas for biomedical applications	26.10.22	25.10.2025	0	2487760	2,487,760.00
316	L-functions associated to modular forms and non-vanishing of poincare series	12.12.2022	11.12.2024	149900	1471734	14,71,734.00
317	Catalyst development for reforming of biomass tar model compounds for hydrogen and syngas production	23.11.2022	22.11.2024	2658170	386810	3,044,980.00
318	Nanlocal elliptic equations with critical growth nonlinearities	09.01.2023	08.01.2025	149500	1321794	1,471,294.00
319	A numerical study of some non-classical diffusion/heat equations with free boundaries	09.01.2023	08.01.2026	0	660,000.00	660,000.00
320	Algorithms with provable guarantees for dynamic social networks	07.01.2023	06.01.2026	0	660,000.00	660,000.00
321	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	0	1194000	1,194,000.00
322	Investigation of size effects on vibration and thermoelastic damping in nano-electro-mechanical systems of piezoelectric materials	09.01.2023	08.01.2026	0	660,000.00	660,000.00
323	Adaptive computational approach for riesz fractional advection dispersion wave equations	09.01.2023	12.01.2026	150000	2,017,264.00	2,167,264.00
324	Isoperimetric bounds and obstacle placement problems for mixed steklov-Dirichlet eigenvalues on Riemannian manifolds	02.01.2023	02.01.2025	149800	1,321,824.00	1,471,624.00
325	Certain space of cusp forms spanned by eat quotients and application	18.01.2023	17.01.2026	0	660,000.00	660,000.00
326	Metabolic engineering of rapid growing cyanobacteria for farnesene production and its scaleup studies	18.01.2023	17.01.2026	1000000	2509240	3,509,240.00
327	Proof of concept of developing in-cell reductive stress by Ir(III) transfer hydrogenation catalysts	20.01.2023	19.01.2026	165000	2017050	2,182,050.00
328	Artificial intelligence & IoT based smart vet ecosystem for animal health patient care & precision livestock farming	11.01.2023	10.01.2026	2650000	3294645	5,944,645.00
329	Novel and efficient hybrid material of CsPbBr ₃ , Nanocrystals and organic complexes for multi-stimuli and dynamic optical encryption and decryption	19.01.2023	23.01.2026		2101000	2,101,000.00
330	Development of rare-earth-free metal vanadate phosphors for latent fingerprint detection	25.01.2023	24.01.2026	349900	2081254	2,431,154.00
331	Development of Brain/Liver-on-a-Chip Models for Understanding the Role of Liver in the Progression of Alzheimer's Disease during Diabetes	31.08.2021	30.08.2023	0	1970000	1,970,000.00
332	Hybrid Solar Wind Driven Combined Heat and Power System using Organic Rankine Cycle. (P.I.D.-1747	04.01.2023	03.01.2026	0	942000	942,000.00

333	A new paradigm for flavour problems	20.01.2023	17.11.2025	0	1044000	1,044,000.00
334	Inverse estimation of uncertainty in intact rocks properties at meso-scale using full-field strain measurements	24.01.2023	23.01.2025	2400000	846520	3,246,520.00
335	Silicon carbide devices based high voltage gain converter with novel current-source gate driver for electric vehicle powertrain	07.02.2023	06.02.2026	2565000	2434764	4,999,764.00
336	Development of peripherally acting Nanoformulation of opioids for the treatment of neuropathic pain	14.12.2022	13.12.2024	0	780000	780,000.00
337	DNN- Derived Innovative Flexible Frequency Selective Surfaces for Stealth and 5G Electromagnetic Shielding Applications	07.02.2023	06.02.2026	1000000	2256264	3,256,264.00
338	Development of nano bonded alumina magnesium borate refractory castable application for Indian petrochemical industry	10.02.2023	20.02.2026	1999900	2328754	4,328,654.00
339	Assessment of Safe Parting Thickness and Optimum Goaf Edge Support Requirement for Extraction of Pillars under Soft Cover	14.02.2023	13.02.2025	4290000	13939000	18,229,000.00
340	Design, development and microstructural engineering of ultra-strong maraging medium entropy alloys	13.02.2023	12.02.2026	1700000	2458000	4,158,000.00
341	Enhancement of detection capability of Pyroelectric detectors in Infrared (IR) and Terahertz (THz) region	31.01.2023	30.01.2026	5366000	4034300	9,400,300.00
342	Manufacturing of complex titanium assembly part for missile using fabrication, simulation, testing & prototyping studies	24.01.2023	23.07.2025	0	4757000	4,757,000.00
343	Bringing global sustainable solutions for clean rivers in India through the concept of living lab	15.02.2023	31.10.23	1567269	4337731	5,905,000.00
344	Pressure Assisted Flash Joining of Ceramic Materials	20.02.2023	19.02.2026	2250000	2341400	4,591,400.00
345	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	2400000	1296000	3,696,000.00
346	Wafer-scale integration and interfacial engineering of 2D van der Waals superlattice for next-generation nano-scale devices	20.02.2023	01.03.2026	1413916	2473655	3,887,571.00
347	Data anomaly detection and mitigation for distributed control and optimization with inverter-based resources (IBR) in cyber-physical networked infrastructures (CPNI)	03.03.2023	02.03.2024	1730000	1564104	3,294,104.00
348	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	0	1105000	1,105,000.00
349	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	1400000	2429760	3,829,760.00
350	LoRA-enable Indoor-Outdoor Long-Range Message Sharing System: from device design-to-deployment	06.03.2023	05.09.2023	0	250000	2,50,000.00
351	Development of a Low-cost, Privacy-secured and vision-based divergent behavior prediction system for both individual and group	06.03.2023	05.09.2023	0	245000	245,000.00

352	Center for development of drone related technologies	03.03.2023	02.03.2025	10450000	2550000	13,000,000.00
353	Production, characterization and combustion studies on sustainable aviation fuel	10.03.2023	09.03.2026	1200000	2034264	32,34,264.00
354	Preparation & characterization of natural products derived self-surface functionalized carbon dots for oral cancer theranostics	07.12.2022	06.12.2025	0	1194000	1,194,000.00
355	Animal studies to establish the efficacy of surface polarized sodium potassium niobates for orthopedic implant application	23.02.2023	26.12.2025	0	1092000	1,092,000.00
356	A data driven toolkit for enabling multimodal freight transportation in India and Austria	27.03.2023	26.03.2025	0	712000	712,000.00
357	Making transit accessible to all : Ensuring fairness and equity in Data - Driven Transit Planning	03.03.2023	02.03.2024	480000	1512100	1,992,100.00
358	Installation of Pavan Vruksh for harnessing wind energy at GTAC/Institute Library Premises of IIT(BHU)	03.03.2023	05.11.2023	1100000	495000	1,595,000.00
359	Revisiting traditional Indian agriculture practices against climate change vulnerabilities using machine learning techniques	29.03.2023	26.03.2025	384018	2141560	2,525,578.00
360	Development of paper-based analytical devices for molecular sensing	06.03.2023	05.09.2023	100000	150000	250,000.00
361	Development of disaster response system for collecting & disseminating information through social media text processing	20.03.2023	24.01.2026	0	894000	894,000.00
362	Development of a lightweight Android mobile software powered by Deep Learning for identification of plant leaf disease	30.03.2023	29.03.2025	199982	3390151	3,590,133.00
363	Higgs physics within and beyond the standard model	10.03.2023	12.03.2026	600000	577000	1,177,000.00
364	Averera Project	03.03.2023	02.03.2025	1826800	1172680	2,999,480.00
365	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	0	2226949	2,226,949.00
366	Knowledge partnership for digital metrology	14.03.2023	13.03.2028	200000	2338148	2,538,148.00
367	Utilization of low grade coal for production of high quality graphene and carbon nanoparticles for energy storage	09.02.2023	08.02.2025	2000000	6661000	8,661,000.00
368	A novel meso micro scale coupling approach for wind resource assessment	20.04.2023	19.02.2025	700000	3026560	3,726,560.00
369	Design and development of antenna for surface acoustic wave (SAW) wireless temperature sensor	24.03.2023	23.03.2025	0	3102000	3,102,000.00
370	Instability mechanism of magnetohydrodynamic non-isothermal annular Poiseuille flow: A numerical study	28.04.2023	27.04.2026	0	660000	660,000.00
371	Surface modification of porous electrodes for energy storage systems	12.05.2023	11.05.2026	900000	2490252	3,390,252.00
372	Synthesis of movable monostatic radar mapping system for soil moisture retrieval	25.05.2023	24.05.2025	1788740	965109	2,753,849.00
373	Exploration of Indian Clays for the development of functional materials through surface modification	03.05.2023	10.05.2026	0	1995400	1,995,400.00

374	Quantum phase transition in X ₂ Luln (X=Pt, Pd) Heusler Alloys via chemical substitution	20.03.2023	19.03.2024	0	45000	45,000.00
375	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		5000000	5,000,000.00
376	Development of all natural silk protein-anthocyanin based restorative hair dye formulation	26.06.23	25.06.23	250000	2236000	2,486,000.00
377	Hydrological experiment and water fluxes modelling for SWOT and sentinel - 3A/3B missions: Ganga River	16.06.23	15.06.24	0	1034000	1,034,000.00
378	Engineering cell-based hydrogel patch for Diabetic Wound Repair	27.06.2023	26.06.2024		393622.96	393,622.96
379	High solids anaerobic digestion for effective garbage disposal with forward linkage to power generation	13.07.2023	12.07.2026			3,040,000.00
380	Targeting CDK9 by coumarin based inhibitors: Design, Preparation and Biological Evaluation	14.07.2023	13.07.2026	0	2579240	2,579,240.00
381	Development of EEG-based biometric system to identify friend and foe in defense application	07.07.2023	06.07.2025		5694040	5,694,040.00
382	Structure-property correlation in creep-resistant squeeze-cast Mg-Al-Ca-Mn alloy-based nanocomposites	18.07.2023	17.07.2026	0	2073500	2,073,500.00
383	Transcriptome analysis of Cancer cell line treated with Gedunin and ZINC000045971961 as novel Bruton's tyrosine kinase (BTK) inhibitor	27.07.2023	26.07.2026	592709	5274466	5,867,175.00
384	Wavelets Adaptive Schemes for Tumor Growth Model	03.04.2023	02.04.2026	0	1144000	11,44,000.00
385	Application of sthapatya veda and vedic architecture in creating healthy indoor environment - study in Varanasi	25.08.2023	24.08.2025	199000	801000	1000000
386	Study of solid hydrodynamics in an elevated temperature gas-solid fluidized bed with secondary gas injection through side wall pneumatic nozzles	31.08.2023	30.08.2026	4400000	4236000	8,636,000.00
387	Investigation of Cell-of-origin of TNBCs and Luminal types of Breast Cancer and Development of targeted therapy.	20.07.2023	19.08.2028			52,50,000.00
388	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	28200000	11401786	39,601,786.00
389	Novel Polymeric Nano medicine for Cancer therapy Based on the Bio-informatics and Data analysis	25.09.2023	24.09.2025	300000	1870000	21,70,000.00
390	Design, synthesis and biological evaluation of mechanism-based novel theranostic agents for Alzheimer's disease	07.09.2023	06.09.2026	0	3322240	3,322,240.00
391	Development of Implantable Engineered-Cells-Nano-Polymer-hydrogel based immune therapeutic tools for pancreatic cancer	03.10.2023	02.10.2026	2000000	4760000	6,760,000.00
392	Solution spray processed SnO ₂ based Electron transport layer (ETL) for perovskite solar cell (PSC)	19.10.2023	18.10.2025		400000	400,000.00
393	Privacy-aware Federated Learning based Security Solutions for Beyond 5G Networks	09.10.2023	08.10.2025	1025000	1222340	2,247,340.00
394	Development of implantable hydrogels containing engineered cells secreting glucocerebrosidase for long-term treatment of Gaucher disease type 1	27.10.2023	26.10.2026	900000	822500	3,264,500.00

395	Development of enzyme enhancement treatment for neuronopathic Gaucher disease	27.10.2023	26.10.2026	1500000	1922227	7,025,043.00
396	Synergetic Metal/Lewis base- catalyzed asymmetric annulations	16.10.2023	15.10.2025	1700000	1446000	3,146,000.00
397	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	1968329	2117560	4,085,889.00
398	A pilot project on LoRaWAN-enabled smart building at IIT(BHU)	07.11.2023	06.11.2024	0	1100000	1,100,000.00
399	Learning assisted phase sensor for rapid screening of cells and automated decision making	03.11.2023	31.03.2025	1000000	980000	1,980,000.00
400	Development of Integreated 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	800000	988000	1,788,000.00
401	Socio economic impact of PM Awas Yojana (U) in Varanasi District	11.10.2023	10.03.2024			1,500,000.00
402	Development of stealth drones with camouflaging features for border surveillance using advanced designing and 4D printing	03.11.2023	02.11.2025	1000000	996500	1,996,500.00
403	Efficient Multiparty Computation	26.09.2023	25.09.2028		700000	700,000.00
404	Computational modelling and implementation of O2 Evolution and phase change of positive electrodes in Li-ion Batteries	08.11.2023	07.11.2024		190300	190,300.00
405	Development of regenerative nanofibrous bioactive conduit for treatment of spinal cord injury	30.11.2023	29.11.2026	3800000	2361749	9,841,584.00
406	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		6719998	6,719,998.00
407	Study of runs in multi-state trials	18.12.2023	17.12.2025	150000	1321844	1471844
408	Mixed local-nonlocal double phase elliptic and parabolic problems	22.12.2023	21.12.2025	150000	1321844	1,471,844.00
409	Reconfigurable on board wired and wireless battery charger for electric vehicle	23.11.2023	22.11.2026	0	1708000	1,708,000.00
410	Demonstration of room-temperature electroluminescence from two-dimensional Semiconductor - Metal hybrid structures, towards the realization of nano-lasers	26.12.2023	25.12.2025	2397100	745710	3,142,810.00
411	Motives and algebro-geometric invariants of certain moduli spaces of connections	22.12.2023	21.12.2025	150000	1321844	1,471,844.00
412	Development of new bioinspired catalysts based on Earth- Abundant transition metals and selenolate ligand for selective Hydrofunctionalization reactions	22.12.2023	21.12.2025	1574888	1488488	3,063,376.00
413	Single-Molecule signature of knot formation in proteins	29.12.2023	28.12.2025	2100000	237500	2,337,500.00
414	Exploring naturally inspired piperine derivatives as multitarget directed ligands for the management of Alzheimer's disease	01.01.2024	31.12.2026	1799500	2803714	4,603,214.00
415	Improving oxidative resistance of Carbo-graphite materials to be used in fabrication of mechanical seals for aero-engines	27.12.2023	26.12.2025	1752300	2965000	4,717,300.00

416	Development of robust spin-photon hybrid quantum system for negative refraction	22.12.2023	21.12.2025	2400000	790000	3,190,000.00
417	Exploring prospects of shared e-micro mobility in Rural India	08.12.2023	07.12.2024	0	211444	211,444.00
418	Experimental Investigation on machine learning aided cost-effective electromagnetic wave absorber coating using Microwave heat heterogenous Electronics waste	10.08.2023	09.08.2026	2500000	150000 + JRF salary	2,650,000.00
419	Understanding the molecular mechanism of anti-thyroid drug (propylthiouracil)- induced 'redox imbalance and epigenetic alteration	28.11.2023	27.11.2026	0	350000	350,000.00
420	Engineering cell-based smart hydrogel patch for All-Round Rapid Wound Repair (ARRWR) in diabetic rats	29.12.2023	28.12.2024	1280000	899640	162,500.00
421	Scale-up studies of isoprene production from genetically engineered cyanobacteria for biofuel application	05.01.2024	04.01.2026	0	600000	600,000.00
422	Efficient Multiparty computation and applications	23.01.2024	22.01.2026	755000	1288840	2,043,840.00
423	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	1410000	3276264	4,686,264.00
424	Microstructure and Crystallographic Texture dependence of cyclic deformation and corrosion behaviour in Extruded MG-AL-ZN-SN alloys	08.11.2023	07.11.2026	1850000	500000	2,350,000.00
425	Development of an Efficient and Portable Bridge Weigh-In-motion System for In-service condition Monitoring	19.01.2024	18.01.2026	1299990	1530340	2,830,330.00
426	Development of magnetic materials for spin seebeck energy harvesting	23.11.2023	22.11.2026		1286000	1,286,000.00
427	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	2000000	651000	2,651,000.00
428	Looking for novel skyrmion materials for spintronic applications	14.12.2023	13.12.2026	2200000	580000	2,780,000.00
429	An immunoprotective hydrogel-based implantable construct containing xenogeneic islets for type 1 diabetes therapy	01/25/2024	01/24/2026	900000	2044040	2,944,040.00
430	Design and Analysis of OTFS-based Multiuser Terahertz Communication for 6G and Beyond	31/1/2024	30/1/2027	399571	39957	439,528.00
431	Non smooth optimization and duality theory under variable dominance and interval uncertainty	29/01/2024	28/01/2027	150000	2597492	2,747,492.00
432	Design and development of computer based intervention model for enhancing numerical of pupils of cope with mathematics curricula in primary school	08/02/2024	07/02/2027	1200000	3803760	5,003,760.00
433	Development and evaluation of Intra-nasal n	03/02/2024	02/02/2024	2000000	4096084	6,096,084.00
434	Exploiting synthetic lethality of type II NADH dehydrogenases for complete sterilization of mycobacterium tuberculosis	26/01/2024	25/01/2027		834000	2,090,000.00
435	Developing calibration algorithm for HI intensity mapping with the Square Kilometer Array	12/02/2024	11/02/2027	0	660000	660,000.00
436	Folic acid functionalized drug cocktail loaded lipid nano constructs for ameliorating the triple negative breast cancer therapy	14/2/2024	13/2/2027	0	3263584	3,263,584.00

437	Multiepitope nanoglycoconjugate vaccine development against Mycobacterium tuberculosis	19/02/2024	18/2/2027	1500000	2003500	3,503,500.00
438	Pharmacological exploration & repurposing of an antimalarial-drug for the treatment of triple-negative breast cancer using bovine milk exosomes as a delivery vehicle	05/03/2024	04/03/2027	1800000	3263584	5,063,584.00
439	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	0	2061400	2,061,400.00
440	Targeting cytochrome bd oxidase (cyt-bd) inhibitor for the development of rational drug combination for complete sterilization of Mycobacterium tuberculosis	01/03/2024	28/2/2027		4334247	4,334,247.00
441	Developing of a 3D non-kinematic dynamo model for the solar and stellar cycles	26/02/2024	25/02/2027	0	660,000.00	660,000.00
442	Approximation of runs in multi-state trials with appropriate distributions	26/02/2024	25/02/2027	0	660,000.00	660,000.00
443	Approximation methods generalized strum-liouville problems	26/02/2024	25/02/2027	0	660,000.00	660,000.00
444	Analyze the convergence bounds of federated learning with closer-to-practice constraints	26/02/2024	25/02/2027	0	660,000.00	660,000.00
445	Exploring normally-on Ferroelectric Fin/FET devices for neuromorphic computing applications	26/02/2024	25/02/2027	0	660,000.00	660,000.00
446	Coupled consolidation study of unsaturated soils from a numerical perspective	28/02/2024	27/02/2027	0	1714900	1714900
447	Efficient layer adapted methods for parabolic interface problems with boundary and interior layers	03/08/2024	07/03/2027	150000	1951264	2,101,264.00
448	High temperature tribological studies of nanocomposite/multilayer coatings for dry sliding applications	17/01/2024	16/01/2026			5,953,832.00

449	Development of stable & high luminescence colloidal quantum dots and its light emitting device application	02/15/2024	02/14/2026	4763821		4,763,821.00
450	AI-Based platform for persons with visual impairment for effective social inclusion	01/21/2024	01/20/2026	0	1182500	1,182,500.00
451	Synthesis and characterization of interesting topological materials	03/16/2024	03/15/2027	1150000	786000	1,936,000.00
452	Development of bio-resources for the generation of hepatobiliary tissues for mechanistic insights into liver regeneration	03/13/2024	03/12/2026	950897	2094090	3,044,987.00
453	Development of L10-FeNi (tetraetaenite, ordered phase) for permanent magnet applications	03/19/2024	03/18/2027	2000000	2878192	4,878,192.00
454	Kinetics of self-assembly and structural transitions in complex soft materials across multiple length scales	03/20/2024	03/19/2027	1198100	2578002	3,776,102.00
455	Search for topological superconductor in Heusler family	03/16/2024	03/15/2027	1200000	653500	1,853,500.00
456	Development of Aluminosilicate based Glass-ceramics for Radome Applications	03/13/2024	03/12/2027	3247000	4500000	7,747,000.00