

10. Project Fund Secured in the Evaluation period - Rs.13,18,96,342

SI No	Department	Title of the Project	Funding Agency	Duration	Total amount received
1	Atmospheric Science	Studies on the Troposphere features and stratosphere troposphere coupling processes over the monsoon region using stratosphere troposphere Radar at Cochin	DST	7 years	18000000
2	Electronics	" UGC-SAP at the level of DSA-III"	UGC	5 years	110000
3	Physics	Inspire Faculty Award	DST	5 years	700000
4	School of Industrial Fisheries	Temporal and spacial distribution of larval form of mactribrachium spp in Vembanad lake with special reference to change in Lacustrine ecology	KSCSTE	3 years	701368
5	School of Engineering	Strength and durability of quarry dust cold bonded aggregate concrete subjected to elevated temperature	KSCSTE	2 years	500000
6	Applied Chemistry	SAP at the level of DRS-III	UGC	5 years	840000
7	Physics	KSCSTE Emeritus Fellowship	KSCSTE	3 years	694000
8	National Centre for Aquatic Animal Health	Evaluating costs and benefits of prophylactic health products and novel alternatives on smallholder aquaculture farmers in Asia and Africa (IMAQualate)	DBT	3 years	1500000
9	Statistics	DST-FIST Program	DST	5 year	592134
10	Polymer Science & Rubber Technology	Development of green polymer systems as adhesive and coating for space applications	ISRO-respond	3 years	1293000
11	ACARR	Impact of the Indian Monsoon Convection on the tropical tropopause layer and climate	IFCPAR	3 years	605065
12	Polymer Science & Rubber Technology	Development of magnetically modulated therapeutically active layered double hydroxide (LDH) as a Nanomedicine with hyperthermia potential for cancer theranostics	DST-SERB	3 years	700000
13	Polymer Science & Rubber Technology	KSCSTE Emeritus Fellowship	KSCSTE	3 years	1310000
14	Department of Electronics	KSCSTE Emeritus Fellowship	KSCSTE	3 years	616450

15	Atmospheric Science	Understanding the physical process associated with Tropical Intra-seasonal Oscillations and Cyclogenesis over Indian Ocean region using SCATSAT-1 Data	Space Application Centre(SAC)	3 years	645000
16	National Centre for Aquatic Animal Health	Analysis of apoptotic pathway induced by a cytotoxic polycyclic tetramate macrolactam(PTM) antibiotic ikarugamycine produced bby marine streptomyces sp MCCB 267	KSCSTE Best Paper Award	2 years	50000
17	Atmospheric Science	Features of Indian Ocean SST during the recent decades and their impact on Indian summer monsoon rainfall and circulation pattern	DST-SERB	3 years	800000
18	Applied Chemistry	Energetic Propellant Binders based on Polyphosphazenes	ISRO-respond	3 years	695000
19	Atmospheric Science	Diurnal Variation of Deep Convective clouds over Indian Region and its association with monsoon Rainfall	DST-SERB	3 years	1100000
20	Atmospheric Science	Radiative Impact of clouds:Assessment of intra seasonal and interannual variability during Indian Summer monsoon season	ISRO-respond	3 years	724000
21	School of Engineering	Liquefaction Studies on sand deposits in Kerala	KSCSTE	3 years	439000
22	Biotechnology	Investigating the role of Hypoxia Inducible Factors Alpha in Neuronal Hhomeostasis under Normoxia using Primary Cortical Neuronal culture	UGC-BSR	2 years	200000
23	Atmospheric Science	Development of an improved Cyclogenesis using a multi model Ensemble Prediction System	UGC-BSR	2 years	200000
24	Polymer Science & Rubber Technology	Development of Super hydrophilic graphene/semiconductor oxide Nanohybrids for self-cleaning Applications	DST- SERB	3 years	650000
25	Physics	Nanophosphors for security printing and bio sensing applications	UGC-BSR	2 years	200000
26	Atmospheric Science	High Resolution climate modeling for southern peninsular India	DST	3 years	2774400
27	National Centre for Aquatic Animal Health	Development of Induced Pluripotent Stem Cells(iPSC) from Daphnia pulexand neural tissue engineering for the identification of genetic and epigenetic factors responsible for differentiation and neural degeneration	DBT-IYBA	3 years	846000

28	Applied Chemistry	"Development of an electrochemical biosensor for detection of breast cancer" under DST-WOS Scheme	DST	3 years	888500
29	Applied Chemistry	Development of sensors for Compounds important for clinical analysis and food safety	DST	2 years	618000
30	Polymer Science & Rubber Technology	development of antibacterial catheters for preventing nosocomial infections from the rapeutically modulated natural rubber latex formulations	DBT	3 years	1200000
31	School of Engineering	Design and Development of new generation RFID tags using chipless technology	AICTE	3 years	640000
32	Biotechnology	Search for Novel Anticancer Secondary Metabolites from Endophytic fungi of selected Marine Algae and Evalution of their Mechanism of Action	DBT ,New Delhi	3 years	753200
33	Statistics	Modelling and analysis of lifetime data using quantile function	KSCSTE	3 years	378400
34	Applied Chemistry	Catalysis by polymer supported dendrimers, their metal complexes and nanoparticle conjugates	KSCSTE	3 years	1883200
35	Electronics	Algorithm for Underwater Image Enhancement, Object Detection and cable tracking	Naval Research Board(NRB), New Delhi	2 years	1115000
36	Atmospheric Science	FIST	DST	5 Years	15000000
37	International School of Photonics	FIST	DST	5 years	1000000
38	ACARR	Study of Land Use/Land cover Pattern and a Synergistic Analysis of Temperature and precipitation of the Indian Subcontinent since 1975	DST	3 years	455500
39	School of Management Studies	'Role of Patenting on Firms' Performance: Empirical Evidence from India	IUCIPRS	1 year	15747
40	Atmospheric Science	Influence of microphysical and boundary layer processes on stable isotopic ratios of monsoon rainfall	ISRO	2 years	1519000
41	School of Engineering	Use of coir fibre as reinforcing material in cement mortar	NCRMI,Thiruvananthapuram	18 months	710000

42	Applied Chemistry	Graphene Quantum Dot-imprinted Nanopolymer Composite based Electrodes for the sensing of toxic heavy metals	DST- SERB	3 years	1100000
43	International School of Photonics	Deposition of Two Dimensional MoS2 and WS2 by RF Magnetron sputtering and development of two dimensional MoS2 and WS2 thin film transistors	SERB	3 years	2596615
44	School of Management Studies	The Infrastructural Determinants of Tourism Demand in Karnataka	ICSSR, New Delhi	18 months	100000
45	Physical Oceanography	A coupled physical-ecosystem model based on Mom5-COBALT for the Indian Ocean	INCOIS	2 years	526255
46	School of Management Studies	Antecedents and Magnitude of influence of Informal Sources of Finance among Rural Households in Kerala	ICSSR	2 years	100000
47	Physics	Thin film solar cells using eco-friendly and earth abundant semiconductors employing vacuum-free technique	SERB	3 years	1900000
48	Instrumentation	Metal oxide Nanostructures for chemo resistive gas sensors for breath analysis	SERB	3 years	1440480
49	International School of Photonics	Design and development of Au/Ag doped polymer optical fibre with enhanced photo stability	SERB	3 years	2800000
50	Atmospheric Science	Bias-corrected high resolution future projections of the distribution of rainfall over peninsular India in response to warming climate	SERB	3 years	1398000
51	Statistics	Quantile Modeling of Statistical Data	SERB	36 months	220000
52	Marine Biology, MicroBiology and BioChemistry	UGC -SAP-DRS-II	UGC	5 years	610000
53	Biotechnology	Repressor element-I silencing transcription factor (REST) in Epstein-Barr virus (EBV) biology and pathogenesis	SERB, New Delhi	3 years	1400000
54	Atmospheric Science	Monitoring of extremes over Indian Region on short, extended and seasonal scale: Identification of key physical processes and its representation in Models	IITM	3 years	1646770
55	Physics	Reconfigurable magnetic vortices on curved surface	SERB	3 years	4048840

56	International School of Photonics	Inspire Faculty Award	DST	5 year	1900000
57	Biotechnology	Riverine biodiversity monitoring with reference to Mangroves in comparison with preflood data	KSBB, Tvm	3 Months	48000
58	Biotechnology	Metagenomic Analysis of Soil Microbia; diversity in post flood mangroves	KSBB, Tvm	3 Months	139000
59	National Centre for Aquatic Animal Health	High density fish culture under RAS mode integrated with vegetable culture	NFDB	2 years	18375000
60	Applied Chemistry	Novel composites of natural rubber and Rice husk nano silica for green tyres: Syntheses, Characterization and property evaluation	DOECC- Directorate of Environment & Climate Change	2 years	1228151
61	Physics	Preventing contagious dynamic processes on complex networks	UGC	2 years	800000
62	Marine Biology, MicroBiology and BioChemistry	Fragilaria Oceanica : Is it a true indicator of high Indian Oil Sardine stock along the southwest (Kerala) coast of India	KSCSTE	3 years	472400
63	Applied Chemistry	Development of porphyrin based Metal Organic Framework materials as catalyst for water splitting – Synthesis and Activity Study	UGC	2 years	800000
64	Physics	Environment friendly quantum dot sensitized hierarchical metal oxide nanostructures for photovoltaic applications	UGC	2 years	800000
65	Physics	Laser Induced Breakdown Spectroscopy (LIBS) : A Versatile Tool for Material Elemental Analysis	UGC	2 years	800000
66	National Centre for Aquatic Animal Health	Bioprospecting for Neuroprotective compounds from an endosymbiotic fungi Aaspergillus sp. MCCF 102 isolated form a marine sponge as potential drug candidates against neurodegenerative disorders	DBT	3 years	3651800
67	Chemical Oceanography	Microbial remediation of contaminated Kole Wetlands : Sustainability for cultivation and agricultural practices	DST	3 years	1084000
68	Marine Biology, MicroBiology and BioChemistry	Submarine Groundwater Discharge along the Indian Coastal Zone	MoES-NCESS	16 months	1685000
		Indian Institutions – fermilab			

70	C-SIS	Sasthraphoshini Teachers Training Programme	KSCSTE	5 days	449944
71	Applied Chemistry	Boron Doped diamond (BDD) electrode and porphyrin modified BDD electrodes for the electrochemical determination of peptides	UGC	2 years	800000
72	International School of Photonics	Photothermal and nonlinear optical characterization of rare earth doped nanoparticles for bioimaging applications	SERB	3 years	1980000
73	Physics	Development of all Solid State, lithium ion (Li ion) cells and stable lithium-sulfur (Li-S) cells with high energy density, improved safety and long life span for the next generation energy storage applications	KSCSTE	3 years	800000
74	Physics	Femtosecond Laser – Induced Breakdown Spectroscopy (fs-LIBS) for Multielemental Compositional Analysis	SERB	3 years	275000
75	Physics	Development of Ti-Nb-Ta-Zr alloys of novel mechanical properties for biomedical applications	UGC	2 years	800000
76	School of Management Studies	Employing Gamification Techniques for Enhancing Awareness of Intellectual Property Rights among Students	IUCIPRS	1 year	25000
77	C-SiS	Sastra Sameeksha 2019 – Science Orientation Programme for School Children	KSCSTE	5 days	101160
78	Electronics	Energy efficient Cyber Security Implementation for Internet of Things	DST	3 years	700000
79	Biotechnology	FICCI-DST Research Training Fellowship awarded to "Dr. Oluwatosin Oladele Johnson" Topic "Novel Molecules for inhibiting, breast cancer cells(MDA-MB-231) sourced from medicinal plant	FICCI, New Delhi	5.5 months	5,45,000
80	School of Legal Studies	UGC-SAP – At the level of DRS-II	UGC	5 year	1050000
81	National Centre for Aquatic Animal Health	Development of CRISPR/Cas9 Engineering platform for genome editing in Danio rerio and generation of mstn-knock-out Lines	UGC BSR	2 years	800000
82	Physical Oceanography	Impact of physical process on the fisheries of the North Indian Ocean	DST - SERB	3 years	275000

83	Atmospheric Science	Prediction of monsoon onset over kerala : an approach based on ocean atmosphere coupled feedback	KSCSTE	2 years	50000
84	International School of Photonics	Magnetoplasmonic studies on cobalt and Nickel based nanostructures	DST	3 years	1327000
85	School of Management Studies	Evaluation of post GI registration status of handloom product in central Kerala	IUCIPRS	1 year	7443
86	Center for Techno Strategic Studies	Funding for Center for Techno Strategic Studies	Indian Navy	Since 2002	2700000
87	National Centre for Aquatic Animal Health	Bioactive peptides and depsipeptides with potential anticancer activity from marine sponges and tunicates of Indian Ocean	KSCSTE	3 years	795520
88	Physics	The Spatial clustering of dark matter halos and galaxy in the Universe	UGC	2 years	800000
Total					13,18,96,342