

List of Sanctioned Projects (2016-2019)

S.No	Year of Sanctioned	Name of the Project	Name of the Investigator	Funding Agency	Amount Sanctioned	Duration
1.	2016	Development Of Inversion Algorithms For Retrieval Of Atmospheric Parameters From Atmospheric Lidar Data ISRO/RES/2/405/15-16 dt 17-02-16	Dr. P. Sardar Maran	ISRO / NARL	Rs.5,04,000/-	1 Year Feb 16 - 17
2.	2016	Synthesis, Characterization and collective properties of active particles (No.:SRWOS-A/PM-3/2016)	Ms.Reenu Mary Kuriakose Dr.Brijitta	DST-WOSA,	13,80,000/-	2016 (3 Yrs) (2016-2019)
3.	2016	Physiology and Molecular Adaptations of Coral Reef Dwelling Caridean Shrimps to Climate Change (F. No: ECR/2015/000213)	Dr.S.Prakash	DST-SERB	21,82,000/-	2016 (3 years) 2016-2019
4.	2016	Development of Multicolor Fluorescein-Sorbitol Derivatives for blood brain barrier permeability and real time imaging studies in embryonic zebrafish (No.PDF/2016/000108)	Dr.Raja Sekar Dr.Rajesh Kannan (Mentor)	DST-SERB	19,20,000/-	2016 (2 yrs) 2016-2018
5.	2016	Adaptive and Self-Lubricating Advanced Hard Coatings for Tribiological Applications (No.PDF/2016/000966)	Mr.Dinesh Kumar	DST-SERB	19,20,000/-	2016 (2 yrs) 2016-2018
6.	2016	Assessment of blue carbon stock kin the mangroves ecosystems of Tamilnadu DST/IS-STAC/CO2-SR-256/15(G) dt 03-12-15	Dr.PrabhuDass Batvari	DST	27,50,000/-	3 Yrs Dec 15 - 18
7.	2016	Late Holocene Tectonic land-level changes and Tsunamis: Comparison between Muthupet Lagoon, Bay of Bengal and Rocky Island Creek, South Andaman, Indian Ocean SB/EMEQ-111/2014 dt 9-02-16	Dr.Velmurugan	Centre for Earth	Rs.34,24,968/-	4 Yrs Feb 16 - 20
8.	2016	Know Your Watershed & Give Water a Hand CO/P/TR/S142014 dt 20-10-15	Dr.Venugopal	DST	Rs.5,45,600/-	1 Yr Oct 15-16
9.	2016	Integrated Scientific Approach for sustainable Development of Tribal Community- A Case Study of Kalrayan Hills. Villipuram District, Tamil Nadu Using Remote Sensing and GIS NRDMS/01/78/015 (G) dt 10-02-16	Dr.Nagamani	NRDMS	Rs.7,21,000/-	1 Yr Feb 16 - 17
10.	2016	Extracting of Geographical Coordinates of Wind Mills for six states (Maharashtra, Karnataka, Andhra Pradesh, Gujarat, Rajasthan & Uttarakhand/MP)	Dr.Nethaji Mariappan	NIWE (C-WET)	Rs.3,02,500/-	6 Months 2015 - 2016

		NIWE/WRA/112/2014-2015 dt 27-07-15				
11.	2016	Awareness, survey and conservation of Rays in Indian coast lines 19485-1 dt 06.05.2016	Mr.Kumar Chandrasekaran	RF	£ 4946 Rs.4,75,000/-	1 Year May 16 - 17
12.	2016	Bioprospecting of fish-associated actinobacteria for Quorum sensing inhibitors effective against microbial biofilms ECR/2016/000438 dt 11.05.16	Dr.Venugopal Gopikrishnan	SERB	Rs.20,25,000/-	3 Years May 16 - 19
13.	2016	Targeting the Herpes Simplex Virus (HSV) entry and fusion by identifying the glycoprotein inhibitors from marine algae Sargassum ECR/2016/000469 dt 11.05.2016	Dr.Manikannan Mathaiyan	SERB	Rs.35,31,440/-	3 Years May 16 - 19
14.	2016	Study on Development of Polyurea coating for protection against mine blast	Dr.S.Ramachandran	CVRDE	Rs.9,39,633/-	1 ½ Years Aug 16 – Feb 18
15.	2016	Development of Image Processing Technique to improve the performance of Optical Imaging Diagnostics on SST1	Dr.Logashanmugam	BRNS	Rs.22,64,300/-	2 Years Jul 16 - 18
16.	2016	Studies on the impact of elevated levels of water temperature and acidity on the developmental stages, biochemical, immunological and molecular responses in marine organisms (artemia, rotifer and penaeus vannamei) as model 2-12(1)/16-17/NICRA dt 13-07-16	Dr. K.Govindaraju	ICAR	Rs.31,00,000/-	3 Years Jul 16 - 19
17.	2017	DST Modeling Regional Soil Moisture through Microwave Remote Sensing and Water Cloud Model EMR/2016/000285	Mr. Kishan Singh Rawat	DST	26,84,000/-	2017-2020
18.	2017	Strategies to harness Runoff Rundown from Mountainous Watersheds by Rejuvenation of tanks and artificial recharge to increase utilizable water: A case of Thiruvannamalai Hills, Tamil Nadu DST/TM/WTI/2K16/254 (G)	Dr.Marykutti Abraham	DST	10,34,440/-	2017-2018
19.	2017	Development Near real time high Resolution Precipitation Product using Multi-Satellite Sensors for near real time flash flood monitoring 24(0350)/17/EMR-II	Dr.Anoop Kumar Mishra	CSIR	26,89,400/-	2017-2020
20.	2017	Studies on the preparation and efficacy of inactivated viral vaccine with various adjuvants and grass carp, Ctenopharyngodon idella immunostimulants against reovirus infection in grass carp	K.GOVINDARAJU (Dr. V. Veeramani)	DST-SERB	19,20,000/-	2017-2019

		PDF/2016/003525				
21.	2017	Anti-cancer efficacy of MgO nanoparticles synthesized using marine alga: In-vitro and In-vivo study for Hepatocellular carcinoma PDF/2016/003217	Dr.V.Ganesh Kumar (Dr. S. Tamilselvan)	DST-SERB	19,20,000/-	2017-2019
22.	2017	Assessment of microbiome responsible for the ice-ice disease of the farmed red algae <i>Kappaphycus alvarezii</i> : a case study based on high-throughput Illumina sequencing of the V3-V4 region of the 16S rRNA gene PDF/2016/002741	Dr.D.Inbakandan (Dr. S.U.Mohammed Riyaz)	DST-SERB	19,20,000/-	2017-2019
23.	2017	Production of marine bacterial bioplastic polymer and its nanocomposites for marine antifouling application PDF/2016/002806/LS	Dr.D.Inbakandan (Dr.G.Kavitha)	DST-SERB	19,20,000/-	2017-2019
24.	2017	Recent Trends in Thin film Development and Their Applications and Biomedical and Biosensors Devices	Mr.Gobisaravananan	DBT	6,00,000/-	2017
25.	2017	Action of <i>Guibourtia tessmannii</i> (Caesalpinaceae) extracts on reproductive system in obese male rats	Mr.Deeh Defo Patric Brice (South Africa) Dr.Vinita Viswakarma (Mentor)	DST- CV Raman International Fellowship	2,60,000/-	2017
26.	2017	Pharmaceuticals and personal care products (PPCPs) in biological wastewater treatment plants: Investigating biological nutrient removal, microbial phylogeny and PPCP removal. (No.PDF/2016/003016)	Dr.Suja. E Dr.Dawn S S (Mentor)	SERB-DST	19,20,000/-	2017 (2 yrs) 2017-2019
27.	2017	Evaluating Selected Species in the Genus <i>Tulbaghia</i> for Anticancer Activity (No.NAM-05/74/2015)	Dr.Madan kumar (India) Ms.Samkeliso Takaidza (South Africa)	DST NAM S&T	2,70,000/-	2017 (April -October) 6 Months
28.	2017	Nano particle based biosensor for detection of <i>Leptospira</i> from Environmental and Clinical samples (No.PDF/2016/003337)	Dr.Jayakar Santhosh Dr.A.Madan Kumar (Mentor)	SERB-DST	19,20,000/-	2017 (2 yrs) 2017-2019
29.	2017	Molecular Studies on VEGF inhibitor from Marine Tunicate Symbiotic Actinomycetes and its anti angiogenic effect on zebrafish model	Dr.Jhansi Rani Dr.Rajesh Kannan (Mentor)	SERB-DST	19,20,000/-	2017 (2 yrs) 2017-2019
30.	2017	Insights into the crosstalk mechanism of COX-2 and c-myc proto-oncogene protein in hematopoietic cancer induced zebrafish model	Dr.Sujitha Dr.Rajesh Kannan (Mentor)	SERB-DST	19,20,000/-	2017 (2 yrs) 2017-2019
31.	2017	Development and characterisation of Tribological Coatings Prepared by Reactive Magnetron Sputtering	Dr.P.Kuppusami	CVRDE, DRDO	24,89,080/-	2017-2019
32.	2017	Insight of Lactoferrin Tethered Temozolomide Loaded ORMOSIL Nanoparticle Crossing BBB and Live Imaging	Dr. S Sundarraj Dr.Rajesh Kannan (Mentor)	DST-SERB	19,20,000/-	6/10/2017 2 yrs 2017-

		of Microglial Uptake of Apoptotic Glioma Cells in Transgenic Zebrafish In Vivo (No.PDF/2017/001383)				2019
33.	2018	Atomistic Modelling and Simulation of Mucin 1 Autoproteolysis using Umbrella Sampling and Replica	Dr.Lesitha John Dr.Jaynthi C (Mentor)	DST-SERB	19,20,000/-	2018-2020
34.	2018	Understanding the angiogenesis during regeneration of earthworms using foldscope	Dr.Johnson Rethnaraj Samuel	DBT-Fold scope	8,00,000/-	2018 (1 yr)
35.	2018	Understanding the role of Triphala in tissue regeneration and stem cell proliferation	Dr. Selvanchristyraj Jacksondurairaj	DBT-Fold scope	8,00,000/-	2018 (1 yr)
36.	2018	Foldscope: Mul color imaging of zebrafish brain using fluorescein-sorbitol conjugates	Dr. Rajasekar	DBT-Fold scope	8,00,000/-	2018 (1 yr)
37.	2018	Development of Morphology-Controlled Transition Metal Sulfides Supported on Carbon-Based Materials as Advanced Electrodes for Supercapacitor Applications	Dr.J.Theerthagiri & Dr.P.Kuppusami	VSSC, ISRO	1492000/-	2018-2020
38.	2018	Development of Integrated hand-held biosensor for precise detection of E-coli pathogen in fruits and vegetables	Dr.R.Karthikeyan	DST-SYST	3859637/-	30/08/2018
39.	2018	Design, Fabrication and Evaluation of Compositionally Graded Nanocomposite Hard Coatings for High-Temperature Tribological Applications	Dr.Dinesh Kumar	DST-SERB	43,43,020/-	11/03/2019
40.	2018	Unravelling the role of neuroinflammation in Alzhiemers Disease	Dr.Rajesh Kannan (Mentor) Dr.Suraiya Saleem	DBT-RA	15,00,000/-	2018-2021
41.	2018	Evaluating population structure and conservation status of endangered Hump-head wrasse Cheilinus undulatus Ruppell in the Gulf of Mannar, Tamil Nadu	Dr. Prakash & Dr.Amit Kumar	Wildlife Conservation Trust (WCT)	4,87,800/-	2018 (1 yr)
42.	2018	Can Seaweed Contribute Towards Sustainable Future by playing a role in Climate Change Mitigation and Adaptation (No.ECR/2017/002894)	Dr.Amit Kumar	DST-SERB	29,95,000/-	3 yrs (2018-2021)
43.	2018	Extraction of value-added products from paper industry waste using bacterial laccase:Aneco friendly approach to wealth from waste. PDF/2017/002894 dt.30-6-2018	Dr.LStanley Abraham (Mentor) (Dr.T.Senthivelan)	DST-SERB	1920000/-	2018-2020
44.	2018	Molecular evaluation of Chitosan Nanoparticle mediated curcumin delivery against pathogen induced oxidative stress in Liptopenaeusvannamei No.3/1/277/2018-(Nut) dt.14-6-18	Dr.D.Inbakandan (Mentor) (Ms.Subashini.B)	ICMR SRF	9,13,600/-	2018-2020
45.	2018	PG Diploma on Skill Development in Fishery Products Technology	Dr. D.Inbakandan	DBT-HRD	83,36,000/-	3 years 2018-2021

46.	2018	Studies on the anti-cancer potential of venom proteins from jellyfish species and their structural characterization. No.BT/PR15485/AAQ/3/754/2015 dt.	Dr.K.Govindaraju Dr.D.Inbakandan	DBT	28,31,800/-	3 years 2018- 2021
47.	2018	Potential antituberculosis metabolites from actinobacteria isolated from bhitarikanika mangrove eco system, Odisha.	Dr.Premalata Pati Dr.Radhakrishnan	DST-SERB	Rs.19,20,000/-	2018 - 2020
48.	2019	Diversity and distribution of culturable and non-culturable forms of marine actinobacteria and its role in southern ocean biogeochemistry.	Dr.M.Radhakrishnan	NCPOR-MoES	38,30,200/-	2019- 2022
49.	2019	Developing a virtual soil moisture methodology using optical /thermal and microwave satellite imagery for surface soil moisture mapping MoES/16/13/2016-RDEAS dated 01/02/2019	Dr.Kishan Singh Rawat	MoES	36,69,402/-	2019 - 2022
50.	2019	Towards developing near Real Time Flash Flood Risk Monitoring Scheme over India.	Dr.Anoop Kumar Mishra	MoES	40,05,392/-	2019-2022
51.	2019	Earth Science Technology Cell	Dr.B.Sheela Rani Dr.D.Inbakandan	MOES-ESTC	3,12,11,740/-	2019-2022
52.	2019	Identification of Biomarkers for the development of Rapid diagnostics of Pulmonary Tuberculosis by quantum dot bio-imaging	Dr.Krupakar Parthasarathy	MHRD - SPARC	48,77,610/-	2 019-2021
53.	2019	Crisper based Amyloid plaque establishment in zebrafish model for Alzhiemers disease	Dr.Rajesh Kannan (Mentor) Mr.Ariun Pitchai	DST-OVDF, Indo-IIS	20,00,000/-	2019-2020
54.	2019	Molecular mechanism and multicolor imaging of ar-turmerone on neuroregeneration	Dr.Johnson Retnaraj (Mentor) Dr.Beryl Vedha. Y	ICMR	1752000	2019-2021
55.	2019	Silencing of TCTP gene expression to study the regeneration in earthworm Perionyx excavates (No. ECR/2016/000956)	Dr. Selvanchristyraj Jacksondurairaj	DST-SERB	37, 50,000/-	2019-2022
56.	2019	Sodium/glucose co-transporter-1 (SGLT1) and glucagon like peptide-1 (GLP-1) mediated nutrient sensing in metabolic disorders	Dr. Maharshi Bhaswant Cheethirala	DST-SERB	54,82,540/-	2019-2022
57.	2019	Studies on the interaction mechanism between resistant rice varieties and planthopper assemblages mediated through the phloem (No: ECR/2017/001081)	Dr.Thanga Suja	DST-SERB	37,00,000/-	2019-2022
58.	2019	Development of Nanostructured Polymetallic Antifouling Coatings in Oil and Gas/Biofuel Pipelines	Dr.Vinita Vishwakarma Dr.Dawn SS	SPARC, MHRD	39,59,040/-	2019-2021
59.	2019	Mechanistic investigation of the biological effects of zinc oxide nanoparticles and melatonin on cyclophosphamide-induced toxicity in reproductive cells	Dr.Vinita Vishwakarma (Mentor) Dr.Deeh Defo Patrick Brice	DST – (RTF-DCS)	2,83,333/-	2019-2020

60.	2019	Design and Development of Natural hepato protective churnam for army personnel working in extreme conditions”	Dr.Y.Swamalatha	DRDO-LSRB	32,37,070/-	2019-2022
61.	2019	Plasma sprayed Gd ₂ Zr ₂₀₁ /YSZ Thermal Barriers coatings for aerospace Engine Components No. ISRO/RES/3/811 /19-20	Dr.Anderson Dr.Kamalan Kirubakaran	LPSC, ISRO	1947000/-	2019-2021
62.	2019	Design of a sampling instrument for detection of toxic isocyanate vapours in solid propellant plants and demonstration of its working principle No. ISRO/RES/3/820/19-20	Dr.Annam Renita	LPSC, ISRO	887000/-	2019-2020
63.	2019	Design and development of ANFIS Controller No. ISRO/RES/3/810/19-20	Dr.Lilly Mercy Dr.T.Sasipraba	LPSC, ISRO	1934000/-	2019-2021